GLOBE Data Architecture - Graphics Only

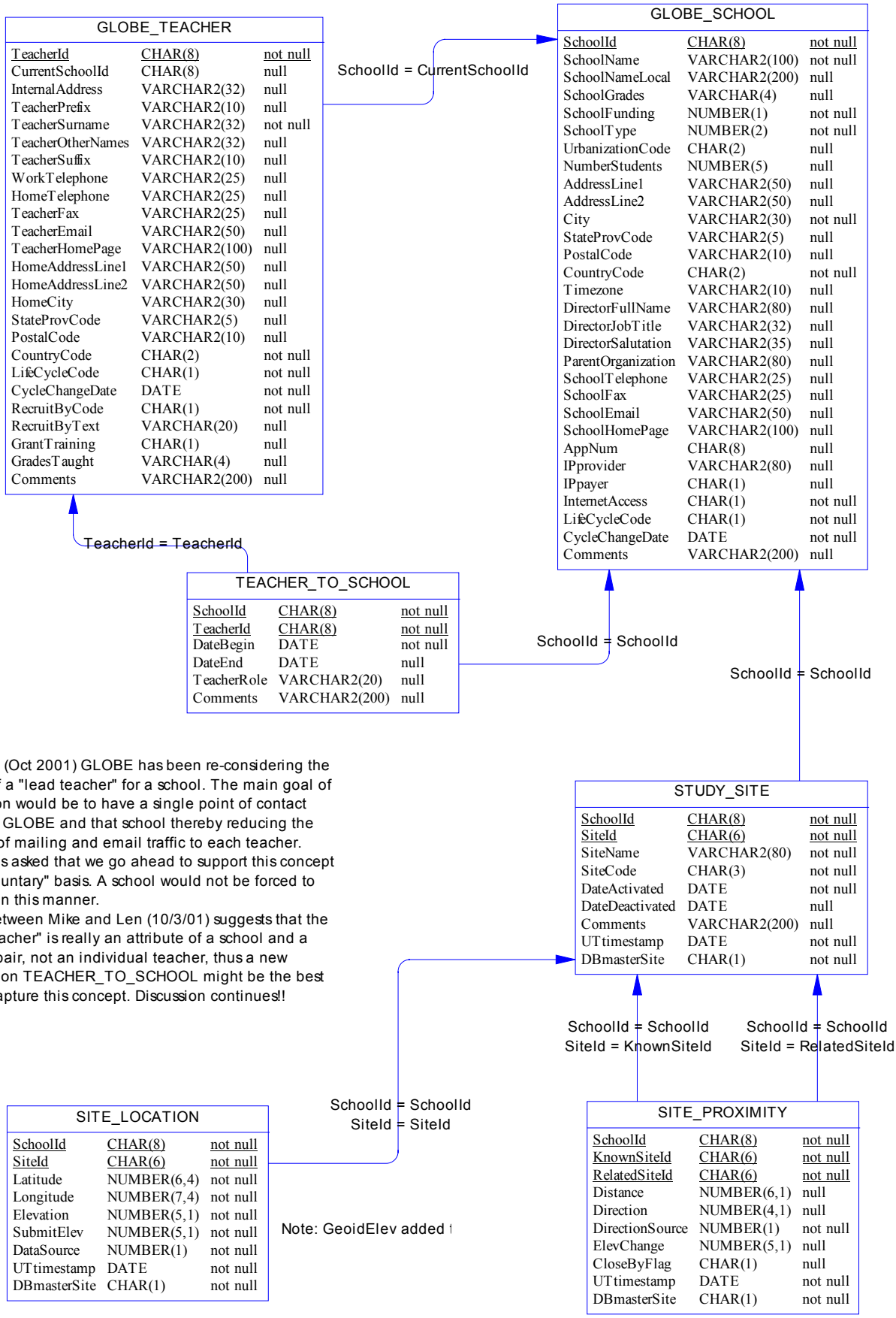
August 7, 2002

Table of contents

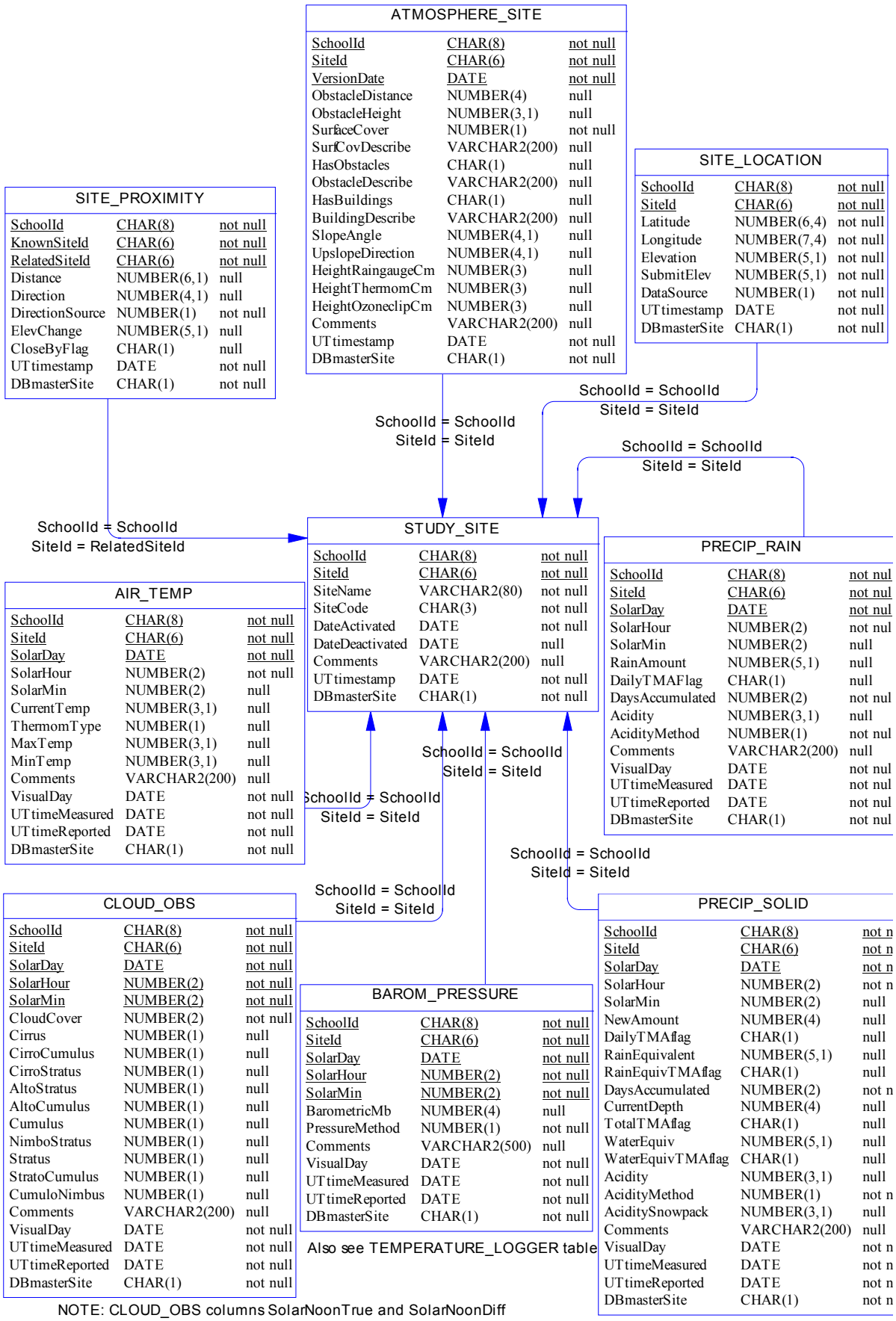
1 Diagram of Architecture Main ... 6
2 Diagram of Atmosphere ... 8
3 Diagram of Atmosphere and Soil Digital ... 14
4 Diagram of Biology ... 16
5 Diagram of Campaigns and Coordinations ... 20
6 Diagram of Checklist Views ... 22
7 Diagram of Contact Management ... 24
8 Diagram of Country State Prov Info ... 26
9 Diagram of Daily Counts ... 28
10 Diagram of Dixon Summary ... 30
11 Diagram of Evaluations ... 32
12 Diagram of FSL Miscellaneous Tables ... 34
13 Diagram of Fire Fuel Ecology ... 36
14 Diagram of Franchises Partners Affiliates ... 40
15 Diagram of GLOBE Database Users ... 42
16 Diagram of GPS Metadata ... 44
17 Diagram of Geographic Regions ... 46
18 Diagram of Haze Humidity Ozone ... 48
19 Diagram of Honor Roll ... 52
20 Diagram of Honor Roll AdvAtmos ... 64
21 Diagram of Honor Roll Earth System ... 66
22 Diagram of Honor Roll Letters ... 70
23 Diagram of Honor Roll Pan GLOBE ... 76
24 Diagram of Hummingbird ... 80
25 Diagram of Investigations ... 84
26 Diagram of Learning Standards ... 86
27 Diagram of LifeCycleRegistration Codes ... 88
28 Diagram of Mail Pals ... 90
29 Diagram of Mailing Status ... 92
30 Diagram of Misc Code Tables ... 94
31 Diagram of NWS Reference Data ... 96
32 Diagram of OrderInventory ... 98
33 Diagram of Phenology Budburst ... 100
34 Diagram of Phenology Garden ... 106
35 Diagram of Phenology Greening ... 108
36 Diagram of Phenology Lilacs ... 114
37 Diagram of Protocol Measurement Count ... 118
38 Diagram of School Information ... 120
39 Diagram of School To School ... 122
40 Diagram of Site Metadata ... 124
41 Diagram of Site Photographs ... 128
42 Diagram of Soil Characteristics ... 132
43 Diagram of Soil Infiltration ... 136
44 Diagram of Soil Moisture ... 140
45 Diagram of Soil Temperature ... 144
46 Diagram of Surface Water ... 148
47 Diagram of TM Image Information ... 152
48 Diagram of Teacher PreService ... 154
49 Diagram of Teacher Training ... 156
50 Diagram of Teacher and School Views ... 158
51 Diagram of Trainer Information ... 160

52 Diagram of Trainer Training 162
53 Diagram of US Partners 164
54 Diagram of Workshop Registration (Future) 166
55 Diagram of Zip Information 168

1 Diagram of Architecture _ Main


GLOBE_TEACHER
TeacherId CHAR(8) not null
CurrentSchoolId CHAR(8) null
InternalAddress VARCHAR2(32) null
TeacherPrefix VARCHAR2(10) null
TeacherSurname VARCHAR2(32) not null
TeacherOtherNames VARCHAR2(32) null
TeacherSuffix VARCHAR2(10) null
WorkTelephone VARCHAR2(25) null
HomeTelephone VARCHAR2(25) null
TeacherFax VARCHAR2(25) null
TeacherEmail VARCHAR2(50) null
TeacherHomePage VARCHAR2(100) null
HomeAddressLine1 VARCHAR2(50) null
HomeAddressLine2 VARCHAR2(50) null
HomeCity VARCHAR2(30) null
StateProvCode VARCHAR2(5) null
PostalCode VARCHAR2(10) null
CountryCode CHAR(2) not null
LifeCycleCode CHAR(1) not null
CycleChangeDate DATE not null
RecruitByCode CHAR(1) not null
RecruitByText VARCHAR(20) null
GrantTraining CHAR(1) null
GradesTaught VARCHAR(4) null
Comments VARCHAR2(200) null
SchoolId = CurrentSchoolId
GLOBE_SCHOOL
SchoolId CHAR(8) not null
SchoolName VARCHAR2(100) not null
SchoolNameLocal VARCHAR2(200) null
SchoolGrades VARCHAR(4) null
SchoolFunding NUMBER(1) not null
SchoolType NUMBER(2) not null
UrbanizationCode CHAR(2) null
NumberStudents NUMBER(5) null
AddressLine1 VARCHAR2(50) null
AddressLine2 VARCHAR2(50) null
City VARCHAR2(30) not null
StateProvCode VARCHAR2(5) null
PostalCode VARCHAR2(10) null
CountryCode CHAR(2) not null
Timezone VARCHAR2(10) null
DirectorFullName VARCHAR2(80) null
DirectorJobTitle VARCHAR2(32) null
DirectorSalutation VARCHAR2(35) null
ParentOrganization VARCHAR2(80) null
SchoolTelephone VARCHAR2(25) null
SchoolFax VARCHAR2(25) null
SchoolEmail VARCHAR2(50) null
SchoolHomePage VARCHAR2(100) null
AppNum CHAR(8) null
IPprovider VARCHAR2(80) null
IPpayer CHAR(1) null
InternetAccess CHAR(1) not null
LifeCycleCode CHAR(1) not null
CycleChangeDate DATE not null
Comments VARCHAR2(200) null
TeacherId = TeacherId
TEACHER_TO_SCHOOL
SchoolId CHAR(8) not null
TeacherId CHAR(8) not null
DateBegin DATE not null
DateEnd DATE null
TeacherRole VARCHAR2(20) null
Comments VARCHAR2(200) null
SchoolId = SchoolId
SchoolId = SchoolId
Recently (Oct 2001) GLOBE has been re-considering the notion of a "lead teacher" for a school. The main goal of this notion would be to have a single point of contact between GLOBE and that school thereby reducing the amount of mailing and email traffic to each teacher. Dixon has asked that we go ahead to support this concept on a "voluntary" basis. A school would not be forced to operate in this manner.
Email between Mike and Len (10/3/01) suggests that the "lead teracher" is really an attribute of a school and a teacher pair, not an individual teacher, thus a new attribute on TEACHER_TO_SCHOOL might be the best way to capture this concept. Discussion continues!!
STUDY_SITE
SchoolId CHAR(8) not null
SiteId CHAR(6) not null
SiteName VARCHAR2(80) not null
SiteCode CHAR(3) not null
DateActivated DATE not null
DateDeactivated DATE null
Comments VARCHAR2(200) null
UTtimestamp DATE not null
DBmasterSite CHAR(1) not null
SchoolId = SchoolId
SiteId = KnownSiteId
SchoolId = SchoolId
SiteId = RelatedSiteId
SchoolId = SchoolId
SiteId = SiteId
SITE_LOCATION
SchoolId CHAR(8) not null
SiteId CHAR(6) not null
Latitude NUMBER(6,4) not null
Longitude NUMBER(7,4) not null
Elevation NUMBER(5,1) not null
SubmitElev NUMBER(5,1) not null
DataSource NUMBER(1) not null
UTtimestamp DATE not null
DBmasterSite CHAR(1) not null
Note: GeoidElev added
SITE_PROXIMITY
SchoolId CHAR(8) not null
KnownSiteId CHAR(6) not null
RelatedSiteId CHAR(6) not null
Distance NUMBER(6,1) null
Direction NUMBER(4,1) null
DirectionSource NUMBER(1) not null
ElevChange NUMBER(5,1) null
CloseByFlag CHAR(1) null
UTtimestamp DATE not null
DBmasterSite CHAR(1) not null

2 Diagram of Atmosphere



NOTE: CLOUD_OBS columns SolarNoonTrue and SolarNoonDiff deleted on 10/10/01 as agreed by the systems teleconference.

CLOUD_OBS_VU1

SchoolId
SiteId
Month
MeasureCode
RowCnt
CCovCnt
CTypCnt
CCovAvg
ObscureCnt
CiSum
CCSum
CSSum
ASSum
ACSum
CuSum
NSSum
StSum
SCSum
CNSum
BegDate
EndDate
BegRDate
EndRDate
LagTimeAvg

GLOBE.CLOUD_OBS

AIR_TEMP_VU1

SchoolId
SiteId
Month
MeasureCode
RowCnt
CurTCnt
CurTMin
CurTMax
CurTAvg
CurTStd
MaxTCnt
MaxTMin
MaxTMax
MaxTAvg
MaxTStd
MinTCnt
MinTMin
MinTMax
MinTAvg
MinTStd
MeanTCnt
MeanTAvg
TRangeAvg
BegDate
EndDate
BegRDate
EndRDate
LagTimeAvg

GLOBE.AIR_TEMP

PRECIP_RAIN_VU1

SchoolId
SiteId
Month
MeasureCode
RowCnt
RainCnt
RainMin
RainMax
RainAvg
DailyRMCnt
RpHCnt
RainSum
SumRDays
RpHWAvg
BegDate
EndDate
BegRDate
EndRDate
LagTimeAvg

GLOBE.PRECIP_RAIN

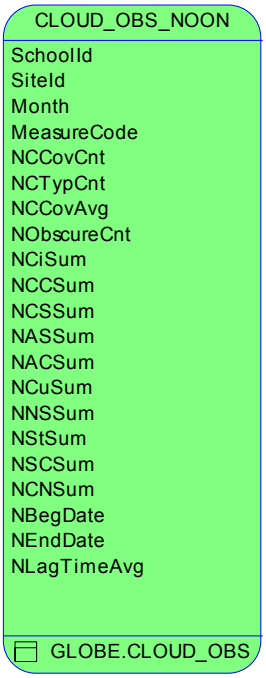
PRECIP_SOLID_VU1

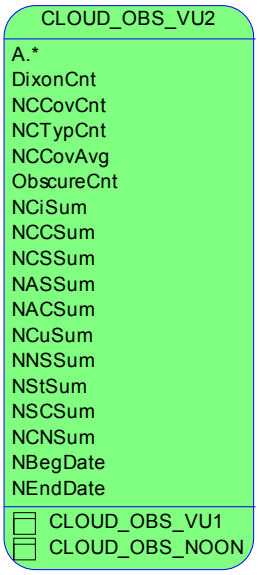
SchoolId
SiteId
Month
MeasureCode
RowCnt
NewCnt
DailyMCnt
COUNT(DECODE(RainEquivalent,0_0,Null,0_1,Null,Null,Null,1_0))
CDepCnt
TotMCnt
SpHCnt
SPpHCnt
NewSum
NewMin
NewMax
NewAvg
REqvSum
REqvCnt
REqvMin
REqvMax
REqvAvg
SumSDays
SumREDays
COUNT(DECODE(WaterEquiv,0_0,Null,0_1,Null,Null,Null,1_0))
SpHWAvg
BegDate
EndDate
BegRDate
EndRDate
LagTimeAvg

GLOBE.PRECIP_SOLID

SKY_OBSCURED

SchoolId	CHAR(8)	not null
SiteId	CHAR(6)	not null
SolarDay	DATE	not null
SolarHour	NUMBER(2)	not null
SolarMin	NUMBER(2)	not null
Fog	NUMBER(1)	null
Smoke	NUMBER(1)	null
Haze	NUMBER(1)	null
VolcanicAsh	NUMBER(1)	null
Dust	NUMBER(1)	null
Sand	NUMBER(1)	null
Spray	NUMBER(1)	null
HeavyRain	NUMBER(1)	null
HeavySnow	NUMBER(1)	null
BlowingSnow	NUMBER(1)	null
UTtimeReported	DATE	not null
DBmasterSite	CHAR(1)	not null





CLOUD_OBS_CNT

SchoolId	CHAR(8)	not null
SiteId	CHAR(6)	not null
Month	DATE	not null
MeasureCode	CHAR(2)	not null
RowCnt	INTEGER	not null
DixonCnt	INTEGER	null
CCovCnt	INTEGER	not null
CTypCnt	INTEGER	null
CCovAvg	NUMBER(3,1)	not null
CiSum	NUMBER(2)	null
CCSum	NUMBER(2)	null
CSSum	NUMBER(2)	null
ASSum	NUMBER(2)	null
ACSum	NUMBER(2)	null
CuSum	NUMBER(2)	null
NSSum	NUMBER(2)	null
StSum	NUMBER(2)	null
SCSum	NUMBER(2)	null
CNSum	NUMBER(2)	null
BegDate	DATE	not null
EndDate	DATE	not null
BegRDate	DATE	not null
EndRDate	DATE	not null
LagTimeAvg	NUMBER(6,2)	not null
NCCovCnt	INTEGER	null
NCTypCnt	INTEGER	null
NCCovAvg	NUMBER(3,1)	null
NObscureCnt	INTEGER	null
NCiSum	NUMBER(2)	null
NCCSum	NUMBER(2)	null
NCSSum	NUMBER(2)	null
NASSum	NUMBER(2)	null
NACSum	NUMBER(2)	null
NCuSum	NUMBER(2)	null
NNSSum	NUMBER(2)	null
NStSum	NUMBER(2)	null
NSCSum	NUMBER(2)	null
NCNSum	NUMBER(2)	null

PRECIP_SOLID_WS

SchoolId	CHAR(8)	not null
SiteId	CHAR(6)	not null
SolarDay	DATE	not null
SampleNbr	NUMBER(2)	not null
NewAmount	NUMBER(4)	null
DailyTMAflag	CHAR(1)	null
CurrentDepth	NUMBER(4)	null
TotalTMAflag	CHAR(1)	null

AIR_TEMP_VU2

AIR_TEMP_VU1.*
DixonCnt

AIR_TEMP_VU1

AIR_TEMP_CNT

SchoolId	CHAR(8)	not null
SiteId	CHAR(6)	not null
Month	DATE	not null
MeasureCode	CHAR(2)	not null
Rowcnt	INTEGER	not null
DixonCnt	INTEGER	null
CurTCnt	INTEGER	null
CurTMin	NUMBER(3,1)	null
CurTMax	NUMBER(3,1)	null
CurTAvg	NUMBER(3,1)	null
CurTStd	NUMBER(2,1)	null
MaxTCnt	INTEGER	null
MaxTMin	NUMBER(3,1)	null
MaxTMax	NUMBER(3,1)	null
MaxTAvg	NUMBER(3,1)	null
MaxTStd	NUMBER(2,1)	null
MinTCnt	INTEGER	null
MinTMin	NUMBER(3,1)	null
MinTMax	NUMBER(3,1)	null
MinTAvg	NUMBER(3,1)	null
MinTStd	NUMBER(2,1)	null
MeanTCnt	INTEGER	null
MeanTAvg	NUMBER(3,1)	null
TRangeAvg	NUMBER(3,1)	null
BegDate	DATE	not null
EndDate	DATE	not null
BegRDate	DATE	not null
EndRDate	DATE	not null
LagTimeAvg	NUMBER(6,2)	not null

PRECIP_RAIN_VU2

PRECIP_RAIN_VU1.*
DixonCnt

PRECIP_RAIN_VU1

PRECIP_RAIN_CNT

SchoolId	CHAR(8)	not null
SiteId	CHAR(6)	not null
Month	DATE	not null
MeasureCode	CHAR(2)	not null
RowCnt	INTEGER	not null
DixonCnt	INTEGER	null
RainCnt	INTEGER	null
RainMin	NUMBER(5,1)	null
RainMax	NUMBER(5,1)	null
RainAvg	NUMBER(5,1)	null
DailyRMCnt	INTEGER	null
RpHCnt	INTEGER	null
RainSum	NUMBER(5,1)	null
SumRDays	NUMBER(2)	null
RpHWAvg	NUMBER(8,1)	null
BegDate	DATE	not null
EndDate	DATE	not null
BegRDate	DATE	not null
EndRDate	DATE	not null
LagTimeAvg	NUMBER(6,2)	not null

PRECIP_SOLID_VU2

PRECIP_SOLID_VU1.*
DixonCnt

PRECIP_SOLID_VU1

PRECIP_SOLID_CNT

SchoolId	CHAR(8)	not null
SiteId	CHAR(6)	not null
Month	DATE	not null
MeasureCode	CHAR(2)	not null
RowCnt	INTEGER	not null
DixonCnt	INTEGER	not null
NewCnt	INTEGER	not null
DailyMCnt	INTEGER	not null
REqvCntD	INTEGER	not null
CDepCnt	INTEGER	not null
TotMCnt	INTEGER	not null
SpHCnt	INTEGER	not null
SPpHCnt	INTEGER	not null
NewSum	NUMBER(4)	null
NewMin	NUMBER(4)	null
NewMax	NUMBER(4)	null
NewAvg	NUMBER(5,1)	null
REqvSum	NUMBER(5,1)	null
REqvCnt	INTEGER	not null
REqvMin	NUMBER(5,1)	null
REqvMax	NUMBER(5,1)	null
REqvAvg	NUMBER(5,1)	null
SumSDays	INTEGER	not null
SumREDays	INTEGER	not null
WEqvCntD	INTEGER	not null
SpHWAvg	NUMBER(8,1)	null
BegDate	DATE	not null
EndDate	DATE	not null
BegRDate	DATE	not null
EndRDate	DATE	not null
LagTimeAvg	NUMBER(6,2)	not null

BAROM_PRESSURE_VU1

SchoolId
SiteId
Month
MeasureCode
RowCnt
MbCnt
BegDate
EndDate
BegRDate
EndRDate
LagTimeAvg

GLOBE.BAROM_PRESSURE

BAROM_PRESSURE_VU2

BAROM_PRESSURE_VU1.*
DixonCnt

BAROM_PRESSURE_VU1

BAROM_PRESSURE_CNT

SchoolId	CHAR(8)	not null
SiteId	CHAR(6)	not null
Month	DATE	not null
MeasureCode	CHAR(2)	not null
RowCnt	Integer	not null
DixonCnt	Integer	not null
MbCnt	Integer	not null
BegDate	DATE	not null
EndDate	DATE	not null
BegRDate	DATE	not null
EndRDate	DATE	not null
LagTimeAvg	Number(6,2)	not null

SKY_OBSCURED_VU1

SchoolId
SiteId
Month
MeasureCode
RowCnt
SOTypCnt
FogSum
SmkSum
HazSum
VoASum
DusSum
SanSum
SprSum
HRnSum
HSnSum
BSnSum
MIN(SolarDay+Solarhour/24_+SolarMin/(24_*60_))
MAX(SolarDay+Solarhour/24_+SolarMin/(24_*60_))
BegRDate
EndRDate
LagTimeAvg

SKY_OBSCURED

SKY_OBSCURED_VU2

SKY_OBSCURED_VU1.*
DixonCnt

SKY_OBSCURED_VU1

SKY_OBSCURED_CNT

SchoolId	CHAR(8)	not null
SiteId	CHAR(6)	not null
Month	DATE	not null
MeasureCode	CHAR(2)	not null
RowCnt	Integer	not null
DixonCnt	Integer	not null
SOTypCnt	Integer	not null
FogSum	Integer	null
SmkSum	Integer	null
HazSum	Integer	null
VoASum	Integer	null
DusSum	Integer	null
SanSum	Integer	null
SprSum	Integer	null
HRnSum	Integer	null
BSnSum	Integer	null
BegDate	DATE	not null
EndDate	DATE	not null
BegRDate	DATE	not null
EndRDate	DATE	not null
LagTimeAvg	Number(6,2)	not null

TEMP_EXTREMES

Country	CHAR(2)	not null
StateProv	VARCHAR2(5)	not null
Month	DATE	not null
MaxTemp	NUMBER(3,1)	null
MinTemp	NUMBER(3,1)	null

CURRENT_TEMP_NONNOON

SchoolId	CHAR(8)	not null
SiteId	CHAR(6)	not null
SolarDay	DATE	not null
SolarHour	NUMBER(2)	not null
SolarMin	NUMBER(2)	not null
CurrentTemp	NUMBER(3,1)	null
ThermomType	NUMBER(1)	null
Comments	VARCHAR2(200)	null
VisualDay	DATE	null
UTtimeMeasured	DATE	not null
UTtimeReported	DATE	not null
DBmasterSite	CHAR(1)	not null

The Month is a Date value truncated to the first day of the month in the most recent year in which the Max and Min temp values are known records. This date may lag by a year or more the dates of current readings. If StateProv=Country then the reading is for the country.

CURRENT_TEMP_NONNOON_VU1

SchoolId
SiteId
Month
MeasureCode
RowCnt
NNCurTCnt
NNCurTMin
NNCurTMax
NNCurTAvg
NNCurTStd
BegDate
EndDate
BegRDate
EndRDate
LagTimeAvg

CURRENT_TEMP_NONNOON

CURRENT_TEMP_NONNOON_VU2

CURRENT_TEMP_NONNOON_VU1.*
dixoncnt

CURRENT_TEMP_NONNOON_VU1

3 Diagram of Atmosphere and Soil_Digital

Air and Soil Temperature
Digital Thermometer Probes

Development draft – March 12, 2002

ATMOSPHERE_SITE

SchoolId	CHAR(8)	not null
SiteId	CHAR(6)	not null
VersionDate	DATE	not null
ObstacleDistance	NUMBER(4)	null
ObstacleHeight	NUMBER(3,1)	null
SurfaceCover	NUMBER(1)	not null
SurfCovDescribe	VARCHAR2(200)	null
HasObstacles	CHAR(1)	null
ObstacleDescribe	VARCHAR2(200)	null
HasBuildings	CHAR(1)	null
BuildingDescribe	VARCHAR2(200)	null
SlopeAngle	NUMBER(4,1)	null
UpslopeDirection	NUMBER(4,1)	null
HeightRaingaugeCm	NUMBER(3)	null
HeightThermomCm	NUMBER(3)	null
HeightOzoneclipCm	NUMBER(3)	null
Comments	VARCHAR2(200)	null
UTtimestamp	DATE	not null
DBmasterSite	CHAR(1)	not null

SITE_LOCATION

SchoolId	CHAR(8)	not null
SiteId	CHAR(6)	not null
Latitude	NUMBER(6,4)	not null
Longitude	NUMBER(7,4)	not null
Elevation	NUMBER(5,1)	not null
SubmitElev	NUMBER(5,1)	not null
DataSource	NUMBER(1)	not null
UTtimestamp	DATE	not null
DBmasterSite	CHAR(1)	not null

SOILMOISTURE_SITE

SchoolId	CHAR(8)	not null
SiteId	CHAR(6)	not null
VersionDate	DATE	not null
SurfaceType	NUMBER(1)	not null
SurfaceCover	NUMBER(1)	not null
CanopyCover	NUMBER(1)	not null
SandPct	NUMBER(4,1)	null
SiltPct	NUMBER(4,1)	null
ClayPct	NUMBER(4,1)	null
RockEstimate	NUMBER(1)	not null
RootEstimate	NUMBER(1)	not null
Comments	VARCHAR2(200)	null
UTtimestamp	DATE	not null
DBmasterSite	CHAR(1)	not null

SchoolId = SchoolId
SiteId = SiteId

STUDY_SITE

SchoolId	CHAR(8)	not null
SiteId	CHAR(6)	not null
SiteName	VARCHAR2(80)	not null
SiteCode	CHAR(3)	not null
DateActivated	DATE	not null
DateDeactivated	DATE	null
Comments	VARCHAR2(200)	null
UTtimestamp	DATE	not null
DBmasterSite	CHAR(1)	not null

SchoolId = SchoolId
SiteId = SiteId

SchoolId = SchoolId
SiteId = SiteId

SchoolId = SchoolId
SiteId = SiteId

THERMOM_RESET

SchoolId	CHAR(8)	not null
SiteId	CHAR(6)	not null
SolarDay	DATE	not null
SolarHour	NUMBER(2)	not null
SolarMin	NUMBER(2)	not null
ResetTimeUT	DATE	not null
NewBattery	CHAR(1)	null
UTtimeReported	DATE	not null
DBmasterSite	CHAR(1)	not null

SchoolId = SchoolId
SiteId = SiteId

AIR_TEMP

SchoolId	CHAR(8)	not null
SiteId	CHAR(6)	not null
SolarDay	DATE	not null
SolarHour	NUMBER(2)	not null
SolarMin	NUMBER(2)	null
CurrentTemp	NUMBER(3,1)	null
ThermomType	NUMBER(1)	null
MaxTemp	NUMBER(3,1)	null
MinTemp	NUMBER(3,1)	null
Comments	VARCHAR2(200)	null
VisualDay	DATE	not null
UTtimeMeasured	DATE	not null
UTtimeReported	DATE	not null
DBmasterSite	CHAR(1)	not null

SOILTEMP_DAILYINFO

SchoolId	CHAR(8)	not null
SiteId	CHAR(6)	not null
SolarDayMeas	DATE	not null
ThermomType	NUMBER(1)	null
Max24hrs	NUMBER(3,1)	null
Min24hrs	NUMBER(3,1)	null
Rain24hrsFlag	CHAR(1)	not null
Comments	VARCHAR2(200)	null
UTtimeReported	DATE	not null
DBmasterSite	CHAR(1)	not null

olId = SchoolId
iteId = SiteId

THERMOM_CALIB

SchoolId	CHAR(8)	not null
SiteId	CHAR(6)	not null
SolarDayValid	DATE	not null
AirCorrection	NUMBER(3,1)	not null
SoilCorrection	NUMBER(3,1)	null
UTtimeReported	DATE	not null
DBmastersite	CHAR(1)	not null

SchoolId = SchoolId
SiteId = SiteId
SolarDayMeas = SolarDayMeas

SchoolId = SchoolId
SiteId = SiteId
SolarDayValid = SolarDayValid

SOIL_TEMP

SchoolId	CHAR(8)	not null
SiteId	CHAR(6)	not null
SolarDayMeas	DATE	not null
Depth	NUMBER(2)	not null
SampleNbr	NUMBER(2)	not null
SolarHourMeas	NUMBER(2)	not null
SolarMinMeas	NUMBER(2)	not null
SoilTemp	NUMBER(3,1)	not null
TempUsage	NUMBER(1)	not null
AirTemp	NUMBER(3,1)	null
UTtimeMeasured	DATE	not null
UTtimeReported	DATE	not null
DBmasterSite	CHAR(1)	not null

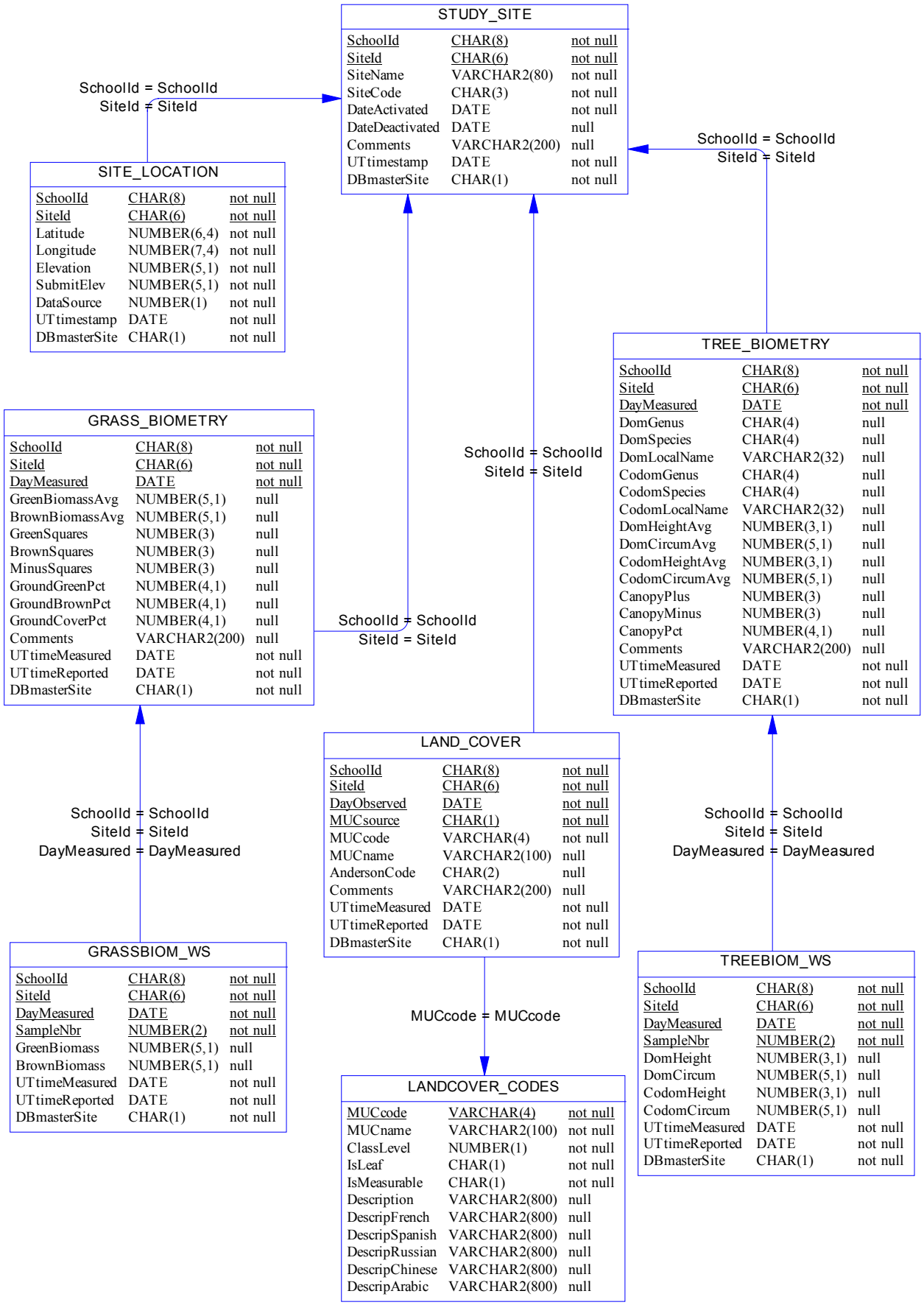
THERMOMCALIB_WS

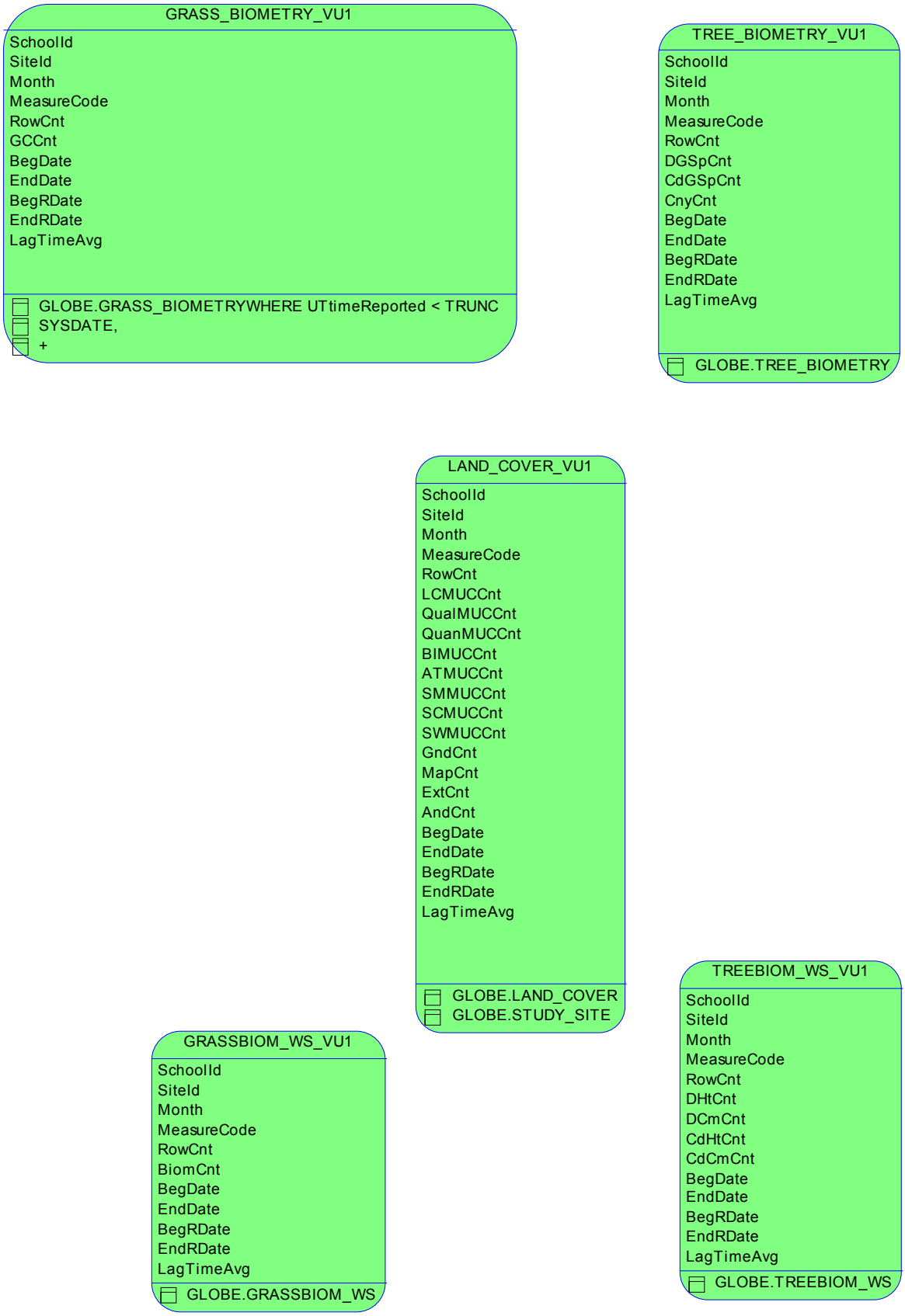
SchoolId	CHAR(8)	not null
SiteId	CHAR(6)	not null
SolarDayValid	DATE	not null
SampleNbr	NUMBER(2)	not null
UTtimeMeasured	DATE	not null
CalibAirTemp	NUMBER(3,1)	not null
ProbeAirTemp	NUMBER(3,1)	not null
CalibSoilTemp	NUMBER(3,1)	null
ProbeSoilTemp	NUMBER(3,1)	null
UTtimeReported	DATE	not null
DBmasterSite	CHAR(1)	not null

Thermom Type
0 Unknown
1 Digital - Soil Only
2 Dial - Soil Only
3 Other - Soil or Air
4 MaxMin U-tube Mercury - Air Only
5 Max/Min 7-day Digital
6 MaxMin Alcohol based - Air Only

NOTE: Consider adding an Air/Soil choice to the PK of THERMOM_CALIB and WS, to record Air and Soil in separate rows, thereby making it easier to report them separately.

4 Diagram of Biology


STUDY_SITE
SchoolId CHAR(8) not null
SiteId CHAR(6) not null
SiteName VARCHAR2(80) not null
SiteCode CHAR(3) not null
DateActivated DATE not null
DateDeactivated DATE null
Comments VARCHAR2(200) null
UTtimestamp DATE not null
DBmasterSite CHAR(1) not null
SchoolId = SchoolId
SiteId = SiteId
SITE_LOCATION
SchoolId CHAR(8) not null
SiteId CHAR(6) not null
Latitude NUMBER(6,4) not null
Longitude NUMBER(7,4) not null
Elevation NUMBER(5,1) not null
SubmitElev NUMBER(5,1) not null
DataSource NUMBER(1) not null
UTtimestamp DATE not null
DBmasterSite CHAR(1) not null
SchoolId = SchoolId
SiteId = SiteId
TREE_BIOMETRY
SchoolId CHAR(8) not null
SiteId CHAR(6) not null
DayMeasured DATE not null
DomGenus CHAR(4) null
DomSpecies CHAR(4) null
DomLocalName VARCHAR2(32) null
CodomGenus CHAR(4) null
CodomSpecies CHAR(4) null
CodomLocalName VARCHAR2(32) null
DomHeightAvg NUMBER(3,1) null
DomCircumAvg NUMBER(5,1) null
CodomHeightAvg NUMBER(3,1) null
CodomCircumAvg NUMBER(5,1) null
CanopyPlus NUMBER(3) null
CanopyMinus NUMBER(3) null
CanopyPct NUMBER(4,1) null
Comments VARCHAR2(200) null
UTtimeMeasured DATE not null
UTtimeReported DATE not null
DBmasterSite CHAR(1) not null
GRASS_BIOMETRY
SchoolId CHAR(8) not null
SiteId CHAR(6) not null
DayMeasured DATE not null
GreenBiomassAvg NUMBER(5,1) null
BrownBiomassAvg NUMBER(5,1) null
GreenSquares NUMBER(3) null
BrownSquares NUMBER(3) null
MinusSquares NUMBER(3) null
GroundGreenPct NUMBER(4,1) null
GroundBrownPct NUMBER(4,1) null
GroundCoverPct NUMBER(4,1) null
Comments VARCHAR2(200) null
UTtimeMeasured DATE not null
UTtimeReported DATE not null
DBmasterSite CHAR(1) not null
SchoolId = SchoolId
SiteId = SiteId
SchoolId = SchoolId
SiteId = SiteId
LAND_COVER
SchoolId CHAR(8) not null
SiteId CHAR(6) not null
DayObserved DATE not null
MUCsource CHAR(1) not null
MUCcode VARCHAR(4) not null
MUCname VARCHAR2(100) null
AndersonCode CHAR(2) null
Comments VARCHAR2(200) null
UTtimeMeasured DATE not null
UTtimeReported DATE not null
DBmasterSite CHAR(1) not null
SchoolId = SchoolId
SiteId = SiteId
DayMeasured = DayMeasured
SchoolId = SchoolId
SiteId = SiteId
DayMeasured = DayMeasured
GRASSBIOM_WS
SchoolId CHAR(8) not null
SiteId CHAR(6) not null
DayMeasured DATE not null
SampleNbr NUMBER(2) not null
GreenBiomass NUMBER(5,1) null
BrownBiomass NUMBER(5,1) null
UTtimeMeasured DATE not null
UTtimeReported DATE not null
DBmasterSite CHAR(1) not null
MUCcode = MUCcode
TREEBIOM_WS
SchoolId CHAR(8) not null
SiteId CHAR(6) not null
DayMeasured DATE not null
SampleNbr NUMBER(2) not null
DomHeight NUMBER(3,1) null
DomCircum NUMBER(5,1) null
CodomHeight NUMBER(3,1) null
CodomCircum NUMBER(5,1) null
UTtimeMeasured DATE not null
UTtimeReported DATE not null
DBmasterSite CHAR(1) not null
LANDCOVER_CODES
MUCcode VARCHAR(4) not null
MUCname VARCHAR2(100) not null
ClassLevel NUMBER(1) not null
IsLeaf CHAR(1) not null
IsMeasurable CHAR(1) not null
Description VARCHAR2(800) null
DescripFrench VARCHAR2(800) null
DescripSpanish VARCHAR2(800) null
DescripRussian VARCHAR2(800) null
DescripChinese VARCHAR2(800) null
DescripArabic VARCHAR2(800) null


GRASS_BIOMETRY_VU1
SchoolId
SiteId
Month
MeasureCode
RowCnt
GCCnt
BegDate
EndDate
BegRDate
EndRDate
LagTimeAvg
GLOBE.GRASS_BIOMETRYWHERE UTtimeReported < TRUNC
SYSDATE,
+
TREE_BIOMETRY_VU1
SchoolId
SiteId
Month
MeasureCode
RowCnt
DGSpCnt
CdGSpCnt
CnyCnt
BegDate
EndDate
BegRDate
EndRDate
LagTimeAvg
GLOBE.TREE_BIOMETRY
LAND_COVER_VU1
SchoolId
SiteId
Month
MeasureCode
RowCnt
LCMUCCnt
QualMUCCnt
QuanMUCCnt
BIMUCCnt
ATMUCCnt
SMMUCCnt
SCMUCCnt
SWMUCCnt
GndCnt
MapCnt
ExtCnt
AndCnt
BegDate
EndDate
BegRDate
EndRDate
LagTimeAvg
GLOBE.LAND_COVER
GLOBE.STUDY_SITE
GRASSBIOM_WS_VU1
SchoolId
SiteId
Month
MeasureCode
RowCnt
BiomCnt
BegDate
EndDate
BegRDate
EndRDate
LagTimeAvg
GLOBE.GRASSBIOM_WS
TREEBIOM_WS_VU1
SchoolId
SiteId
Month
MeasureCode
RowCnt
DHtCnt
DCmCnt
CdHtCnt
CdCmCnt
BegDate
EndDate
BegRDate
EndRDate
LagTimeAvg
GLOBE.TREEBIOM_WS

GRASS_BIOMETRY_VU2

GBVU1.*
DixonCnt
GRASS_BIOMETRY_VU1

GRASS_BIOMETRY_CNT

SchoolId	CHAR(8)	not null
SiteId	CHAR(6)	not null
Month	DATE	not null
MeasureCode	CHAR(2)	not null
RowCnt	INTEGER	not null
DixonCnt	INTEGER	null
GCCnt	INTEGER	null
BegDate	DATE	not null
EndDate	DATE	not null
BegRDate	DATE	not null
EndRDate	DATE	not null
LagTimeAvg	NUMBER(6,2)	not null

GRASSBIOM_WS_VU2

GRASSBIOM_WS_VU1.*
DixonCnt
GRASS_BIOM_WS_VU1

GRASSBIOM_WS_CNT

SchoolId	CHAR(8)	not null
SiteId	CHAR(6)	not null
Month	DATE	not null
Measurecode	CHAR(2)	not null
RowCnt	INTEGER	not null
DixonCnt	INTEGER	null
BiomCnt	INTEGER	null
BegDate	DATE	not null
EndDate	DATE	not null
BegRDate	DATE	not null
EndRDate	DATE	not null
LagTimeAvg	NUMBER(6,2)	not null

LAND_COVER_VU2

LAND_COVER_VU1.*
DixonCnt
LAND_COVER_VU1

LAND_COVER_CNT

SchoolId	CHAR(8)	not null
SiteId	CHAR(6)	not null
Month	DATE	not null
MeasureCode	CHAR(2)	not null
RowCnt	INTEGER	not null
DixonCnt	INTEGER	not null
LCMUCCnt	INTEGER	null
QualMUCCnt	INTEGER	null
QuanMUCCnt	INTEGER	null
BIMUCCnt	INTEGER	null
ATMUCCnt	INTEGER	null
SMMUCCnt	INTEGER	null
SCMUCCnt	INTEGER	null
SWMUCCnt	INTEGER	null
GndCnt	INTEGER	null
MapCnt	INTEGER	null
ExtCnt	INTEGER	null
AndCnt	INTEGER	null
BegDate	DATE	not null
EndDate	DATE	not null
BegRDate	DATE	not null
EndRDate	DATE	not null
LagTimeAvg	NUMBER(6,2)	not null

TREE_BIOMETRY_VU2

TREE_BIOMETRY_VU1.*
DixonCnt
TREE_BIOMETRY_VU1

TREE_BIOMETRY_CNT

SchoolId	CHAR(8)	not null
SiteId	CHAR(6)	not null
Month	DATE	not null
MeasureCode	CHAR(2)	not null
RowCnt	INTEGER	not null
DixonCnt	INTEGER	not null
DGSpCnt	INTEGER	null
CdGSpCnt	INTEGER	null
CnyCnt	INTEGER	null
BegDate	DATE	not null
EndDate	DATE	not null
BegRDate	DATE	not null
EndRDate	DATE	not null
LagTimeAvg	NUMBER(6,2)	not null

TREEBIOM_WS_VU2

TREEBIOM_WS_VU1.*
DixonCnt
TREEBIOM_WS_VU1

TREEBIOM_WS_CNT

SchoolId	CHAR(8)	not null
SiteId	CHAR(6)	not null
Month	DATE	not null
MeasureCode	CHAR(2)	not null
RowCnt	INTEGER	not null
DixonCnt	INTEGER	not null
DHtCnt	INTEGER	null
DCmCnt	INTEGER	null
CdHtCnt	INTEGER	null
CdCmCnt	INTEGER	null
BegDate	DATE	not null
EndDate	DATE	not null
BegRDate	DATE	not null
EndRDate	DATE	not null
LagTimeAvg	NUMBER(6,2)	not null

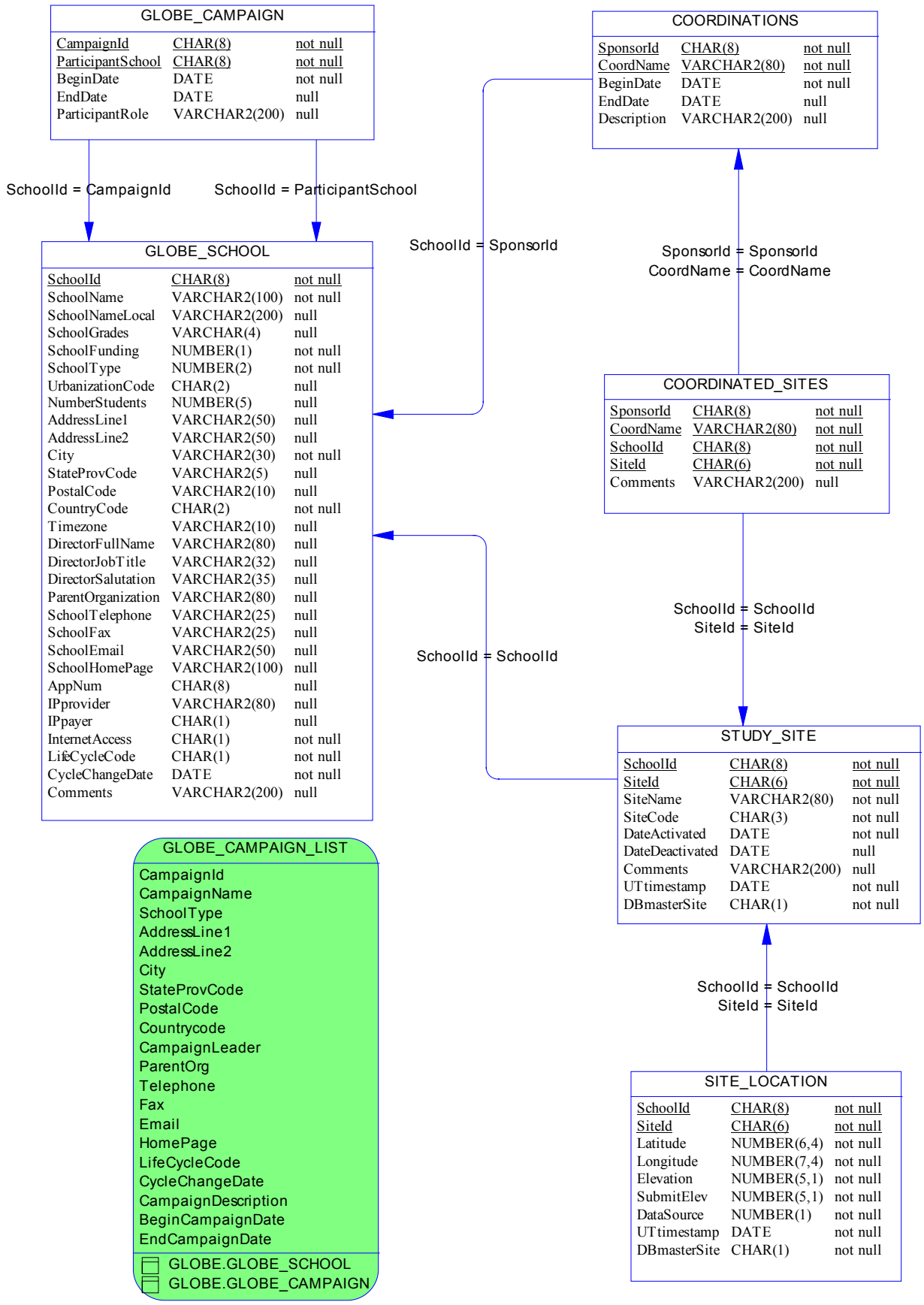
TREE_TYPES

Genus4	CHAR(4)	not null
Species4	CHAR(4)	not null
Genus	VARCHAR2(32)	null
Species	VARCHAR2(32)	null
Comments	VARCHAR2(200)	null

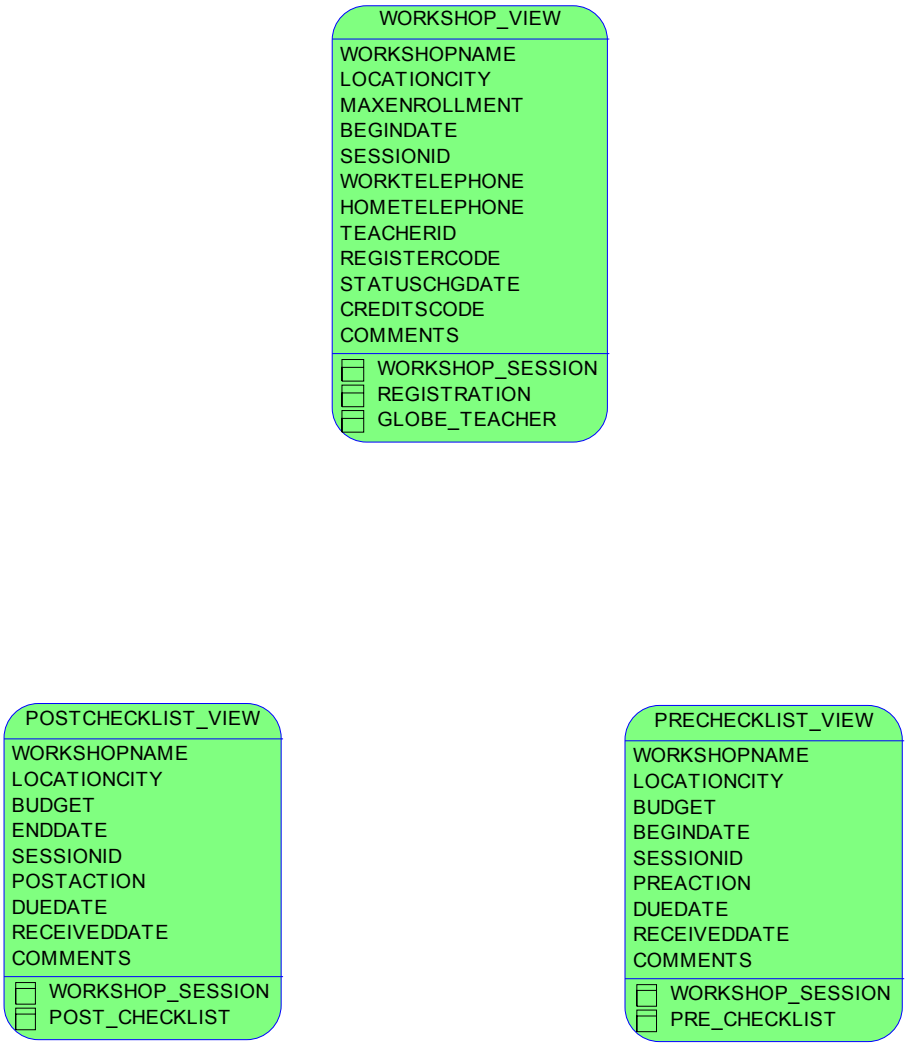
GRASS_TYPES

Genus4	CHAR(4)	not null
Species4	CHAR(4)	not null
Genus	VARCHAR2(32)	null
Species	VARCHAR2(32)	null
Comments	VARCHAR2(200)	null

5 Diagram of Campaigns and Coordinations

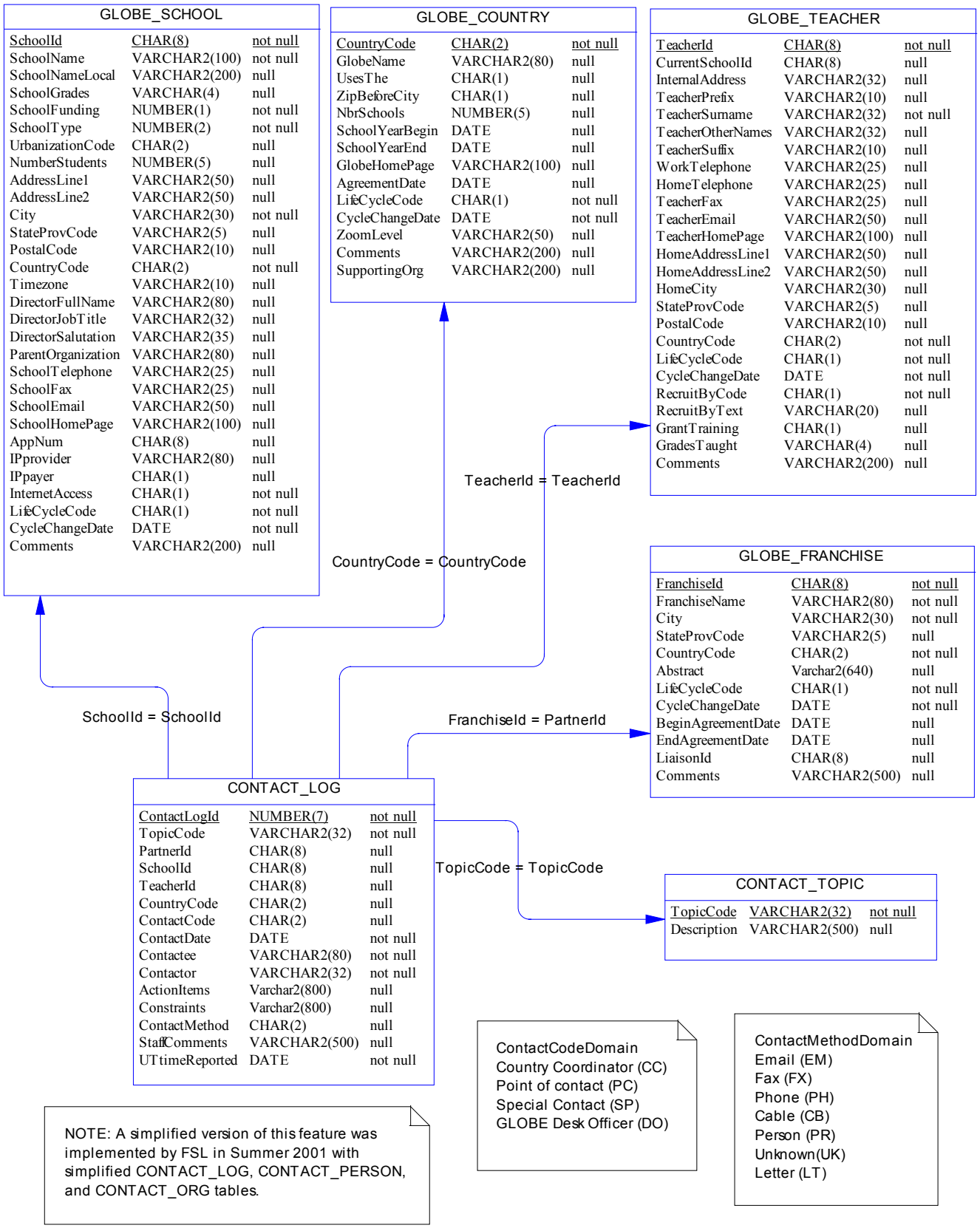

GLOBE_CAMPAIGN
CampaignId CHAR(8) not null
ParticipantSchool CHAR(8) not null
BeginDate DATE not null
EndDate DATE null
ParticipantRole VARCHAR2(200) null
COORDINATIONS
SponsorId CHAR(8) not null
CoordName VARCHAR2(80) not null
BeginDate DATE not null
EndDate DATE null
Description VARCHAR2(200) null
SchoolId = CampaignId
SchoolId = ParticipantSchool
SchoolId = SponsorId
SponsorId = SponsorId
CoordName = CoordName
GLOBE_SCHOOL
SchoolId CHAR(8) not null
SchoolName VARCHAR2(100) not null
SchoolNameLocal VARCHAR2(200) null
SchoolGrades VARCHAR(4) null
SchoolFunding NUMBER(1) not null
SchoolType NUMBER(2) not null
UrbanizationCode CHAR(2) null
NumberStudents NUMBER(5) null
AddressLine1 VARCHAR2(50) null
AddressLine2 VARCHAR2(50) null
City VARCHAR2(30) not null
StateProvCode VARCHAR2(5) null
PostalCode VARCHAR2(10) null
CountryCode CHAR(2) not null
Timezone VARCHAR2(10) null
DirectorFullName VARCHAR2(80) null
DirectorJobTitle VARCHAR2(32) null
DirectorSalutation VARCHAR2(35) null
ParentOrganization VARCHAR2(80) null
SchoolTelephone VARCHAR2(25) null
SchoolFax VARCHAR2(25) null
SchoolEmail VARCHAR2(50) null
SchoolHomePage VARCHAR2(100) null
AppNum CHAR(8) null
IPprovider VARCHAR2(80) null
IPpayer CHAR(1) null
InternetAccess CHAR(1) not null
LifeCycleCode CHAR(1) not null
CycleChangeDate DATE not null
Comments VARCHAR2(200) null
COORDINATED_SITES
SponsorId CHAR(8) not null
CoordName VARCHAR2(80) not null
SchoolId CHAR(8) not null
SiteId CHAR(6) not null
Comments VARCHAR2(200) null
SchoolId = SchoolId
SiteId = SiteId
SchoolId = SchoolId
STUDY_SITE
SchoolId CHAR(8) not null
SiteId CHAR(6) not null
SiteName VARCHAR2(80) not null
SiteCode CHAR(3) not null
DateActivated DATE not null
DateDeactivated DATE null
Comments VARCHAR2(200) null
UTtimestamp DATE not null
DBmasterSite CHAR(1) not null
GLOBE_CAMPAIGN_LIST
CampaignId
CampaignName
SchoolType
AddressLine1
AddressLine2
City
StateProvCode
PostalCode
Countrycode
CampaignLeader
ParentOrg
Telephone
Fax
Email
HomePage
LifeCycleCode
CycleChangeDate
CampaignDescription
BeginCampaignDate
EndCampaignDate
GLOBE.GLOBE_SCHOOL
GLOBE.GLOBE_CAMPAIGN
SchoolId = SchoolId
SiteId = SiteId
SITE_LOCATION
SchoolId CHAR(8) not null
SiteId CHAR(6) not null
Latitude NUMBER(6,4) not null
Longitude NUMBER(7,4) not null
Elevation NUMBER(5,1) not null
SubmitElev NUMBER(5,1) not null
DataSource NUMBER(1) not null
UTtimestamp DATE not null
DBmasterSite CHAR(1) not null

6 Diagram of Checklist Views

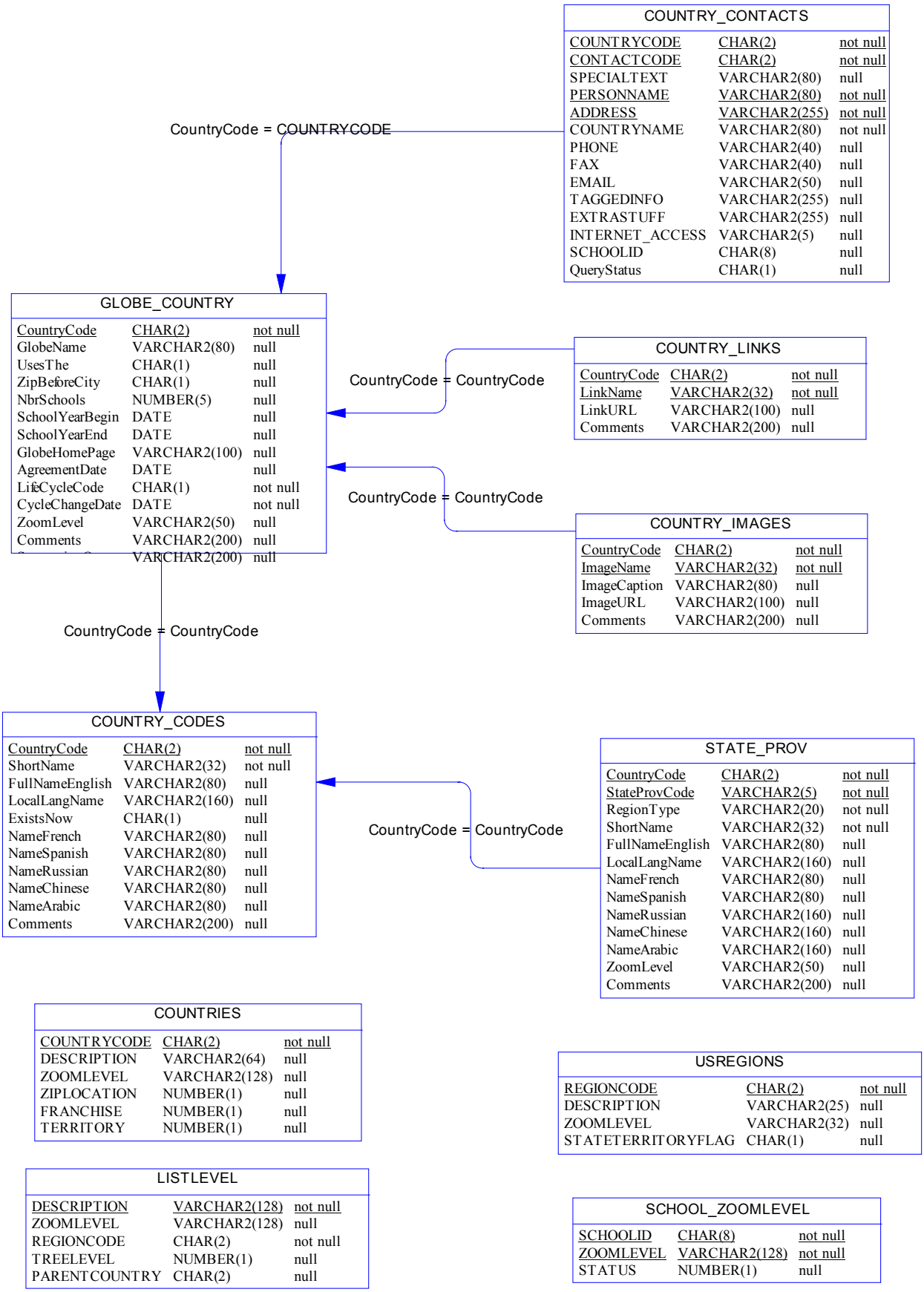

WORKSHOP_VIEW
WORKSHOPNAME
LOCATIONCITY
MAXENROLLMENT
BEGINDATE
SESSIONID
WORKTELEPHONE
HOMETELEPHONE
TEACHERID
REGISTERCODE
STATUSCHGDATE
CREDITSCODE
COMMENTS
WORKSHOP_SESSION
REGISTRATION
GLOBE_TEACHER
POSTCHECKLIST_VIEW
WORKSHOPNAME
LOCATIONCITY
BUDGET
ENDDATE
SESSIONID
POSTACTION
DUEDATE
RECEIVEDDATE
COMMENTS
WORKSHOP_SESSION
POST_CHECKLIST
PRECHECKLIST_VIEW
WORKSHOPNAME
LOCATIONCITY
BUDGET
BEGINDATE
SESSIONID
PREACTION
DUEDATE
RECEIVEDDATE
COMMENTS
WORKSHOP_SESSION
PRE_CHECKLIST

7 Diagram of Contact Management

Contact Management
draft -- Spring 2001



8 Diagram of Country State_Prov Info


COUNTRY_CONTACTS
COUNTRYCODE CHAR(2) not null
CONTACTCODE CHAR(2) not null
SPECIALTEXT VARCHAR2(80) null
PERSONNAME VARCHAR2(80) not null
ADDRESS VARCHAR2(255) not null
COUNTRYNAME VARCHAR2(80) not null
PHONE VARCHAR2(40) null
FAX VARCHAR2(40) null
EMAIL VARCHAR2(50) null
TAGGEDINFO VARCHAR2(255) null
EXTRASTUFF VARCHAR2(255) null
INTERNET_ACCESS VARCHAR2(5) null
SCHOOLID CHAR(8) null
QueryStatus CHAR(1) null
CountryCode = COUNTRYCODE
GLOBE_COUNTRY
CountryCode CHAR(2) not null
GlobeName VARCHAR2(80) null
UsesThe CHAR(1) null
ZipBeforeCity CHAR(1) null
NbrSchools NUMBER(5) null
SchoolYearBegin DATE null
SchoolYearEnd DATE null
GlobeHomePage VARCHAR2(100) null
AgreementDate DATE null
LifeCycleCode CHAR(1) not null
CycleChangeDate DATE not null
ZoomLevel VARCHAR2(50) null
Comments VARCHAR2(200) null
VARCHAR2(200) null
CountryCode = CountryCode
COUNTRY_LINKS
CountryCode CHAR(2) not null
LinkName VARCHAR2(32) not null
LinkURL VARCHAR2(100) null
Comments VARCHAR2(200) null
CountryCode = CountryCode
COUNTRY_IMAGES
CountryCode CHAR(2) not null
ImageName VARCHAR2(32) not null
ImageCaption VARCHAR2(80) null
ImageURL VARCHAR2(100) null
Comments VARCHAR2(200) null
CountryCode = CountryCode
COUNTRY_CODES
CountryCode CHAR(2) not null
ShortName VARCHAR2(32) not null
FullNameEnglish VARCHAR2(80) null
LocalLangName VARCHAR2(160) null
ExistsNow CHAR(1) null
NameFrench VARCHAR2(80) null
NameSpanish VARCHAR2(80) null
NameRussian VARCHAR2(80) null
NameChinese VARCHAR2(80) null
NameArabic VARCHAR2(80) null
Comments VARCHAR2(200) null
CountryCode = CountryCode
STATE_PROV
CountryCode CHAR(2) not null
StateProvCode VARCHAR2(5) not null
RegionType VARCHAR2(20) not null
ShortName VARCHAR2(32) not null
FullNameEnglish VARCHAR2(80) null
LocalLangName VARCHAR2(160) null
NameFrench VARCHAR2(80) null
NameSpanish VARCHAR2(80) null
NameRussian VARCHAR2(160) null
NameChinese VARCHAR2(160) null
NameArabic VARCHAR2(160) null
ZoomLevel VARCHAR2(50) null
Comments VARCHAR2(200) null
COUNTRIES
COUNTRYCODE CHAR(2) not null
DESCRIPTION VARCHAR2(64) null
ZOOMLEVEL VARCHAR2(128) null
ZIPLOCATION NUMBER(1) null
FRANCHISE NUMBER(1) null
TERRITORY NUMBER(1) null
USREGIONS
REGIONCODE CHAR(2) not null
DESCRIPTION VARCHAR2(25) null
ZOOMLEVEL VARCHAR2(32) null
STATETERRITORYFLAG CHAR(1) null
LISTLEVEL
DESCRIPTION VARCHAR2(128) not null
ZOOMLEVEL VARCHAR2(128) null
REGIONCODE CHAR(2) not null
TREELEVEL NUMBER(1) null
PARENTCOUNTRY CHAR(2) null
SCHOOL_ZOOMLEVEL
SCHOOLID CHAR(8) not null
ZOOMLEVEL VARCHAR2(128) not null
STATUS NUMBER(1) null

9 Diagram of Daily Counts

The Daily Counts sub-model has recently been significantly re-structured.

The NGDC "How Many Data Are There?" web page is now defined in terms of the DAILY_UPDATE_CNT snapshot.

DAILY_UPDATE_CNT is defined in terms of DIXON_SUMMARY_CNT and DIXON_SUMMARY_MC and many daily <measurecode>_CNT objects.

DATA_ACTIVITY		
SchoolId	CHAR(8)	not null
SiteId	CHAR(6)	not null
MeasureCode	CHAR(2)	not null
TableType	CHAR(2)	not null
TableName	VARCHAR2(18)	not null
DatabaseAction	CHAR(1)	not null
UTtimeMeasured	DATE	not null
UTtimeReported	DATE	not null
ClientType	CHAR(2)	not null
DBmasterSite	CHAR(1)	not null

ADMIN_ACTIVITY		
Id	Varchar2(20)	not null
TableName	Varchar2(18)	null
DateModified	DATE	not null
ColumnName	Varchar2(18)	not null
DatabaseAction	CHAR(1)	null
UserId	Varchar2(10)	not null

10 Diagram of Dixon Summary

DIXON_SUMMARY_VU1

SchoolId
SiteId
Month
MeasureCode
DixonCnt
BegDate
EndDate
BegRDate
EndRDate

- ACIDITY_WS_CNT
- AIR_TEMP_CNT
- ATMOSPHERE_SITE_CNT
- BUDBURST_META_CNT
- CLOUD_OBS_CNT
- DENSITY_WS_CNT
- FERTILITY_WS_CNT
- GRASS_BIOMETRY_CNT
- GRASSBIOM_WS_CNT
- GREENDOWN_WS_CNT
- GREENING_METADATA_CNT
- GREENUP_WS_CNT
- HAZE_CNT
- HAZE_WS_CNT
- HUMIDITY_CNT
- INFILTRATION_WS_CNT
- LAND_COVER_CNT
- LILAC_METADATA_CNT
- LILAC_PHENOPHASE_CNT
- OZONE_CNT
- PARTICLE_WS_CNT
- PARTICLE96_WS_CNT
- PHENOLOGY_SITE_CNT
- PHENOLOGY_WS_CNT
- PRECIP_RAIN_CNT
- PRECIP_SOLID_CNT
- SITE_LOCATION_CNT
- SITE_PHOTO_CNT
- SITE_PROXIMITY_CNT
- SKY_OBSCURED_CNT
- SMGRAV_WS_CNT
- SMGYPS_WS_CNT
- SOIL_CHAR_CNT
- SOIL_INFILTRATION_CNT
- SOIL_TEMP_CNT
- SOILCHAR_SITE_CNT
- SOILMOISTURE_SITE_CNT
- SURFACE_WATER_CNT
- SURFACEWATER_SITE_CNT
- TEMPERATURE_LOGGER_CNT
- TREE_BIOMETRY_CNT
- TREEBIOM_WS_CNT
- TURBIDITY_WS_CNT

DIXON_SUMMARY_VU2

SchoolId
SiteId
Month
MeasureCode
DixonCnt
BegDate
EndDate
BegRDate
EndRDate

- DIXON_SUMMARY_VU1

DIXON_SUMMARY_VU1 is the UNION ALL of all of the DixonCnt's from the relevant _CNT tables, including extra metadata counts from LAND_COVER_CNT and SITE_PHOTO_CNT.

DIXON_SUMMARY_VU2 groups by the first four columns of DIXON_SUMMARY_VU1.

DIXON_SUMMARY_VU3

SchoolId
Month
GroupCode
DixonCnt
BegDate
EndDate
BegRDate
EndRDate

- DIXON_SUMMARY_VU2

DIXON_SUMMARY_VU3 groups by SchoolId, Month, and MeasureCodes clustered in something close to Investigations, then sums over DixonCnt to get a new dixonCnt.

HONOR_ROLL_OVERALL

SchoolId
TotalObs
FirstObs
LastObs

- GLOBE.DIXON_SUMMARY_GROUPED

A summation over DIXON_SUMMARY_GROUPED over all time, grouped just by SchoolId. Should execute fast enough to not require a snapshot definition.

DIXON_SUMMARY_GROUPED

SchoolId	CHAR(8)	not null
Month	DATE	not null
GroupCode	CHAR(4)	not null
DixonCnt	INTEGER	not null
BegDate	DATE	not null
EndDate	DATE	not null
BegRDate	DATE	not null
EndRDate	DATE	not null

A daily refreshed snapshot of DIXON_SUMMARY_VU3. Refreshed cluse to 23:50 UT time after all _CNT tables are refreshed.

DIXON_SUMMARY_MC

SchoolId	CHAR(8)	not null
MeasureCode	CHAR(2)	not null
DixonCnt	INTEGER	not null
BegDate	DATE	not null
EndDate	DATE	not null
BegRDate	DATE	not null
EndRDate	DATE	not null

Dixon_Summary_MC is a snapshot table defined over Dixon_Summary_VU2 and grouped over SchoolId and MeasureCode.

DIXON_SUMMARY_CNT

SchoolId	CHAR(8)	not null
DixonCnt	INTEGER	not null
BegDate	DATE	not null
EndDate	DATE	not null
BegRDate	DATE	not null
EndRDate	DATE	not null

Dixon_Summary_CNT is a snapshot table defined over Dixon_Summary_VU2 and grouped over just SchoolId.

SCHOOL_REPORT_RATE

SchoolId
TotalObs
MonthlyRate
FirstReport
LastReport
NbrMonths

- GLOBE.DIXON_SUMMARY_CNT

SCHOOL_OBS_RATE

SchoolId
TotalObs
MonthlyObsRate
FirstObs
LastObs
NbrObsMonths

- GLOBE.DIXON_SUMMARY_CNT

CAUTION!!
In all of the views or snapshots, users must be very careful not to mis-use the BegRDate and EndRDate. Grouping is done by MeasurementDay NOT by ReportDate, so except in the final DIXON_SUMMARY_MC and DIXON_SUMMARY_CNT, these RDates are subject to mis-use.

REACH250_EarlyDate

SchoolId
Early250CntMonth

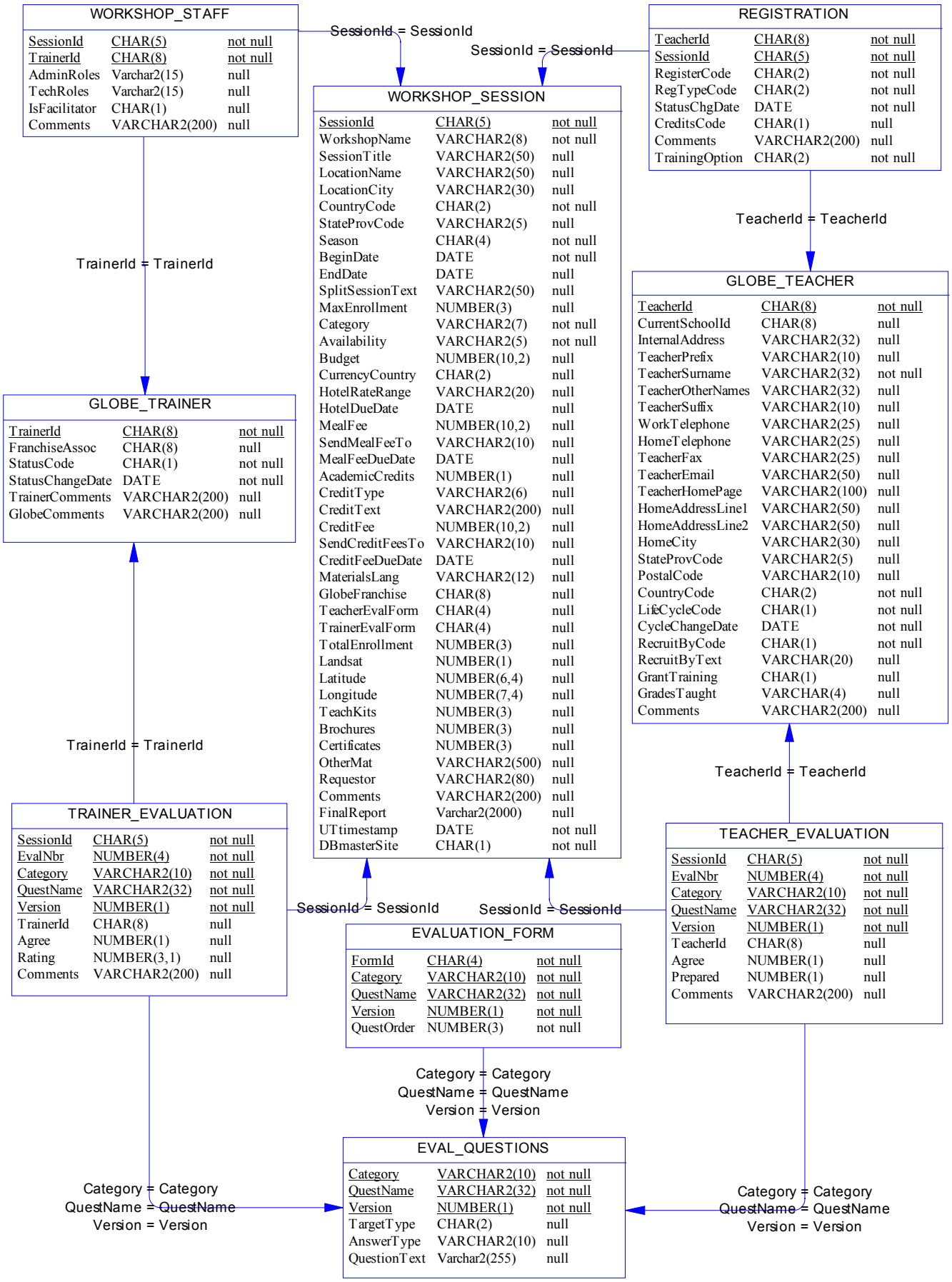
- GLOBE.DIXON_SUMMARY_CNT
- S
- GLOBE.DIXON_SUMMARY_GROUPED
- M
- X

REACH250_LateDate

SchoolId
Late250CntMonth

- GLOBE.DIXON_SUMMARY_CNT
- S
- GLOBE.DIXON_SUMMARY_GROUPED
- M
- X

11 Diagram of Evaluations


WORKSHOP_STAFF
SessionId CHAR(5) not null
TrainerId CHAR(8) not null
AdminRoles Varchar2(15) null
TechRoles Varchar2(15) null
IsFacilitator CHAR(1) null
Comments VARCHAR2(200) null
SessionId = SessionId
SessionId = SessionId
REGISTRATION
TeacherId CHAR(8) not null
SessionId CHAR(5) not null
RegisterCode CHAR(2) not null
RegTypeCode CHAR(2) not null
StatusChgDate DATE not null
CreditsCode CHAR(1) null
Comments VARCHAR2(200) null
TrainingOption CHAR(2) not null
WORKSHOP_SESSION
SessionId CHAR(5) not null
WorkshopName VARCHAR2(8) not null
SessionTitle VARCHAR2(50) null
LocationName VARCHAR2(50) null
LocationCity VARCHAR2(30) null
CountryCode CHAR(2) not null
StateProvCode VARCHAR2(5) null
Season CHAR(4) not null
BeginDate DATE not null
EndDate DATE null
SplitSessionText VARCHAR2(50) null
MaxEnrollment NUMBER(3) null
Category VARCHAR2(7) not null
Availability VARCHAR2(5) not null
Budget NUMBER(10,2) null
CurrencyCountry CHAR(2) null
HotelRateRange VARCHAR2(20) null
HotelDueDate DATE null
MealFee NUMBER(10,2) null
SendMealFeeTo VARCHAR2(10) null
MealFeeDueDate DATE null
AcademicCredits NUMBER(1) null
CreditType VARCHAR2(6) null
CreditText VARCHAR2(200) null
CreditFee NUMBER(10,2) null
SendCreditFeesTo VARCHAR2(10) null
CreditFeeDueDate DATE null
MaterialsLang VARCHAR2(12) null
GlobeFranchise CHAR(8) null
TeacherEvalForm CHAR(4) null
TrainerEvalForm CHAR(4) null
TotalEnrollment NUMBER(3) null
Landsat NUMBER(1) null
Latitude NUMBER(6,4) null
Longitude NUMBER(7,4) null
TeachKits NUMBER(3) null
Brochures NUMBER(3) null
Certificates NUMBER(3) null
OtherMat VARCHAR2(500) null
Requestor VARCHAR2(80) null
Comments VARCHAR2(200) null
FinalReport Varchar2(2000) null
UTtimestamp DATE not null
DBmasterSite CHAR(1) not null
TrainerId = TrainerId
TeacherId = TeacherId
GLOBE_TEACHER
TeacherId CHAR(8) not null
CurrentSchoolId CHAR(8) null
InternalAddress VARCHAR2(32) null
TeacherPrefix VARCHAR2(10) null
TeacherSurname VARCHAR2(32) not null
TeacherOtherNames VARCHAR2(32) null
TeacherSuffix VARCHAR2(10) null
WorkTelephone VARCHAR2(25) null
HomeTelephone VARCHAR2(25) null
TeacherFax VARCHAR2(25) null
TeacherEmail VARCHAR2(50) null
TeacherHomePage VARCHAR2(100) null
HomeAddressLine1 VARCHAR2(50) null
HomeAddressLine2 VARCHAR2(50) null
HomeCity VARCHAR2(30) null
StateProvCode VARCHAR2(5) null
PostalCode VARCHAR2(10) null
CountryCode CHAR(2) not null
LifeCycleCode CHAR(1) not null
CycleChangeDate DATE not null
RecruitByCode CHAR(1) not null
RecruitByText VARCHAR(20) null
GrantTraining CHAR(1) null
GradesTaught VARCHAR(4) null
Comments VARCHAR2(200) null
GLOBE_TRAINER
TrainerId CHAR(8) not null
FranchiseAssoc CHAR(8) null
StatusCode CHAR(1) not null
StatusChangeDate DATE not null
TrainerComments VARCHAR2(200) null
GlobeComments VARCHAR2(200) null
TrainerId = TrainerId
TeacherId = TeacherId
TRAINER_EVALUATION
SessionId CHAR(5) not null
EvalNbr NUMBER(4) not null
Category VARCHAR2(10) not null
QuestName VARCHAR2(32) not null
Version NUMBER(1) not null
TrainerId CHAR(8) null
Agree NUMBER(1) null
Rating NUMBER(3,1) null
Comments VARCHAR2(200) null
SessionId = SessionId
SessionId = SessionId
TEACHER_EVALUATION
SessionId CHAR(5) not null
EvalNbr NUMBER(4) not null
Category VARCHAR2(10) not null
QuestName VARCHAR2(32) not null
Version NUMBER(1) not null
TeacherId CHAR(8) null
Agree NUMBER(1) null
Prepared NUMBER(1) null
Comments VARCHAR2(200) null
EVALUATION_FORM
FormId CHAR(4) not null
Category VARCHAR2(10) not null
QuestName VARCHAR2(32) not null
Version NUMBER(1) not null
QuestOrder NUMBER(3) not null
Category = Category
QuestName = QuestName
Version = Version
EVAL_QUESTIONS
Category VARCHAR2(10) not null
QuestName VARCHAR2(32) not null
Version NUMBER(1) not null
TargetType CHAR(2) null
AnswerType VARCHAR2(10) null
QuestionText Varchar2(255) null
Category = Category
QuestName = QuestName
Version = Version
Category = Category
QuestName = QuestName
Version = Version

12 Diagram of FSL Miscellaneous Tables

BULLETINS

DATESUBMITTED	DATE	not null
TITLE	VARCHAR2(128)	null
BODY	Varchar2(2000)	null
WELCOMEPAGETITLE	VARCHAR2(30)	null

GLOBE_STARS

SUBMISSIONNUMBER	NUMBER(3)	not null
DateSubmitted	DATE	null
FILENAME	VARCHAR2(16)	not null
TITLE	VARCHAR2(128)	not null
CountryCode	VARCHAR2(2)	null
STATEPROVCODE	VARCHAR2(5)	null
SCHOOLID	VARCHAR2(8)	null
REDIRECT	CHAR(1)	null

MESSAGELOG

RECEIVERID	VARCHAR2(12)	not null
DATESENT	DATE	not null
SENDERID	VARCHAR2(12)	not null
MESSAGEREAD	NUMBER(1)	null
SUBJECT	VARCHAR2(64)	null
MESSAGE	LONG	null
SPECIFICTO	VARCHAR2(64)	null
SPECIFICFROM	VARCHAR2(64)	null
DATETODELETE	DATE	null

ARCHIVEMESSAGELOG

RECEIVERID	VARCHAR2(12)	not null
DATESENT	DATE	not null
SENDERID	VARCHAR2(12)	not null
SUBJECT	VARCHAR2(64)	null
MESSAGE	LONG	null
SPECIFICTO	VARCHAR2(64)	null
SPECIFICFROM	VARCHAR2(64)	null

MASSMAIL

RECIPIENTGROUP	VARCHAR2(4)	not null
DATESENT	DATE	not null
SENDERID	CHAR(8)	not null
SUBJECT	VARCHAR2(64)	not null
SPECIFICTO	VARCHAR2(64)	null
SPECIFICFROM	VARCHAR2(64)	null
MESSAGE	VARCHAR2(2000)	null
DATEDELETE	DATE	null

DATA_ENTRY_OPTIONS

PARAMNAME	VARCHAR2(20)	not null
LANGUAGE	CHAR(2)	not null
CODEVALUE	VARCHAR2(3)	not null
DESCRIPTION	VARCHAR2(60)	not null
PROTOCOL	VARCHAR2(25)	not null
DATEDEACTIVATED	DATE	null
COMMENTS	VARCHAR2(200)	null

LISTLEVEL

DESCRIPTION	VARCHAR2(128)	not null
ZOOMLEVEL	VARCHAR2(128)	null
REGIONCODE	CHAR(2)	not null
TREELEVEL	NUMBER(1)	null
PARENTCOUNTRY	CHAR(2)	null

SCHOOL_ZOOMLEVEL

SCHOOLID	CHAR(8)	not null
ZOOMLEVEL	VARCHAR2(128)	not null
STATUS	NUMBER(1)	null

T2T_MESSAGE

MESSAGEID	CHAR(4)	not null
DBMASTERSITE	CHAR(1)	not null
SCHOOLID	CHAR(8)	null
TEACHERID	CHAR(8)	null
TEACHERNAME	VARCHAR2(80)	null
DATESUBMITTED	DATE	null
CATEGORY	NUMBER(2)	not null
TEACHEREMAIL	VARCHAR2(50)	not null
SUBJECT	VARCHAR2(64)	not null
URL	VARCHAR2(256)	null
MESSAGE	VARCHAR2(2000)	not null

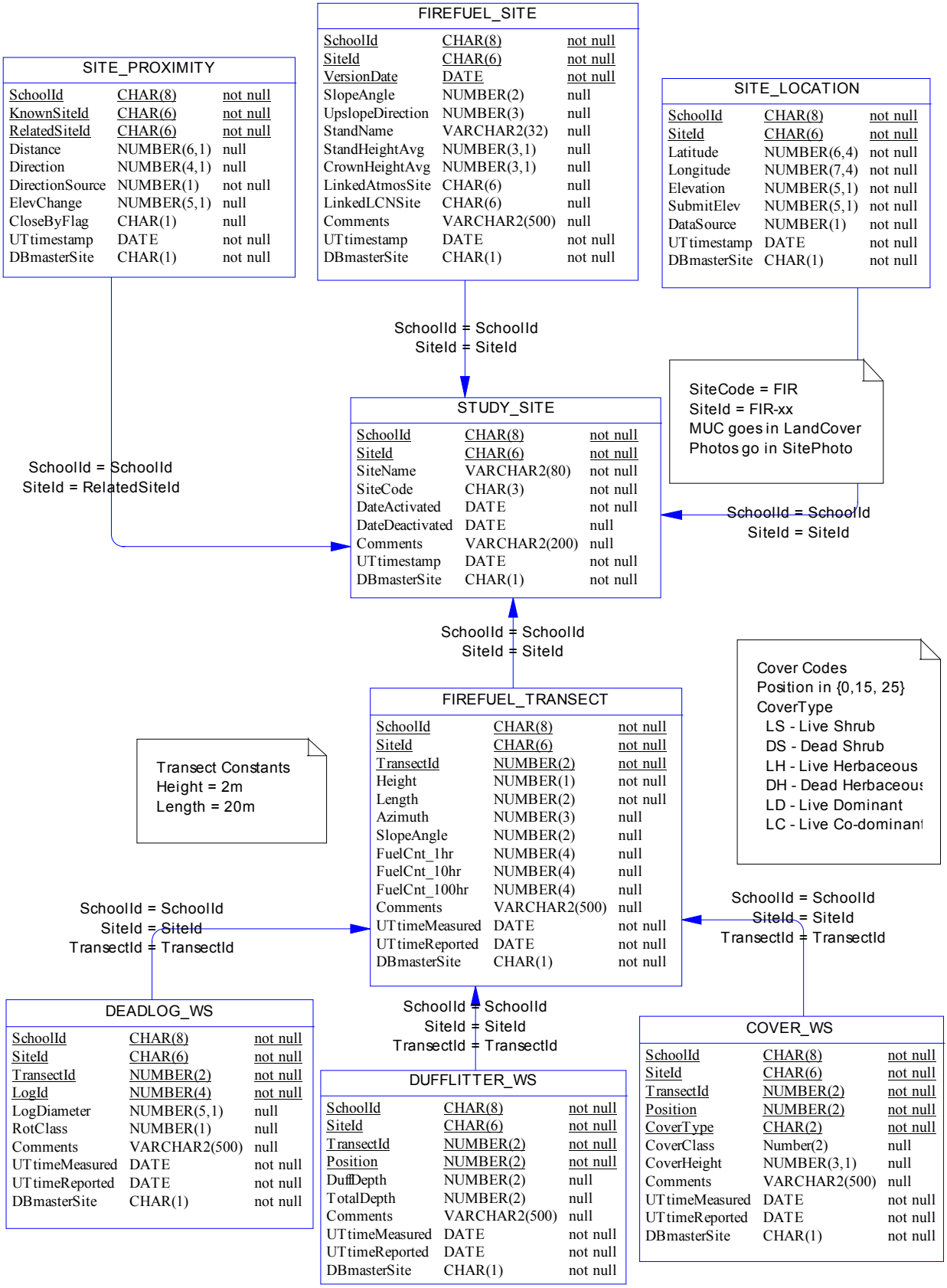
GLOBE_PI_SCIENTISTS

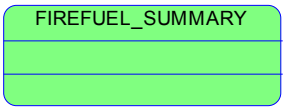
"TeacherId"
"Pre"
"First"
"Last"
"WorkTel"
"Email"
"SchoolId"
"SchoolName"
"City"
"State"
"SchTel"
"SchFax"
"Role"

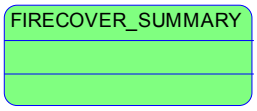
GLOBE.GLOBE_TEACHER
GLOBE.TEACHER_TO_SCHOOL
GLOBE.GLOBE_SCHOOL

13 Diagram of Fire Fuel Ecology

Fire Fuel Ecology
draft Summer 2001





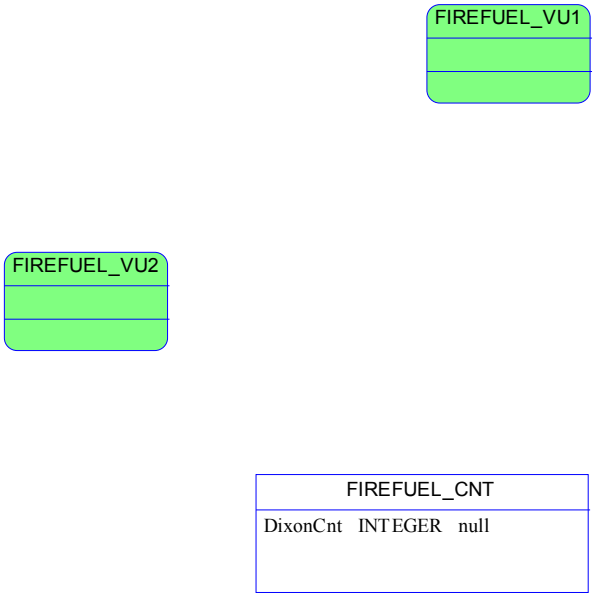


The FIREFUEL_SUMMARY view will be a join of the STUDY_SITE, SITE_LOCATION, FIREFUEL_SITE, LAND_COVER, FUEL_WS, DUFFLITTER_WS, TREE_BIOMETRY, and GRASS_BIOMETRY tables to present a summary of "Fire Fuel" information for each SiteId.

The assumption is that the VersionDate of the FIREFUEL_SITE table is the SolarDay on which all of the measurements were taken!

The FIREFUEL_SUMMARY view will be a join of the STUDY_SITE, SITE_LOCATION, FIREFUEL_SITE, LAND_COVER, COVER_WS, TREE_BIOMETRY, and GRASS_BIOMETRY tables to present a summary of "Canopy Cover" information for each SiteId.

The assumption is that the VersionDate of the FIREFUEL_SITE table is the SolarDay on which all of the measurements were taken!



These _VU1 and _VU2 views, and the _CNT snapshot, will be used to calculate the DixonCnt for the Fire Fuel Ecology protocol measurements.

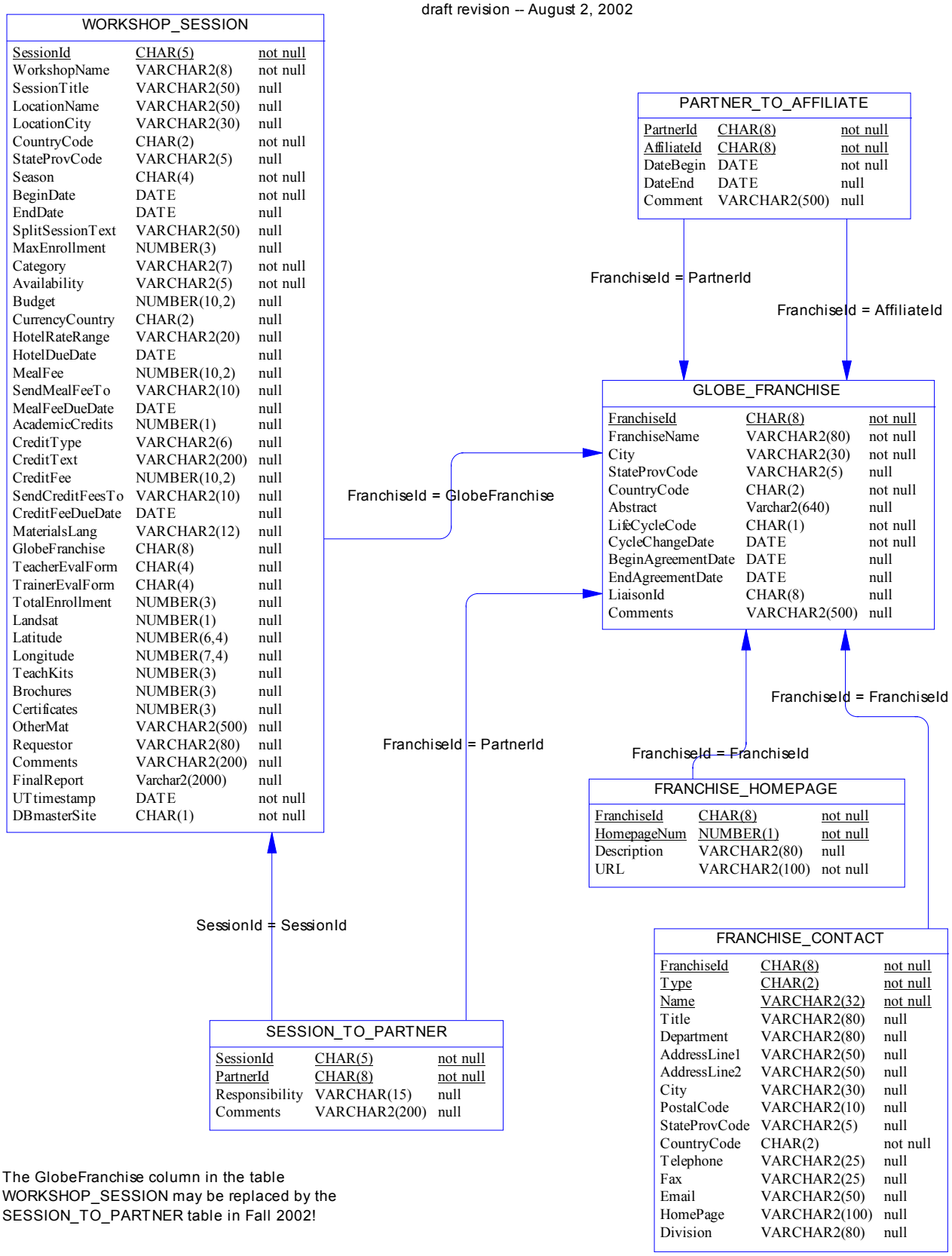
They will then be added in the appropriate way to the DIXON_SUMMARY_VU1 view so that the DIXON_SUMMARY_GROUPED and DIXON_SUMMARY_MC snapshots properly reflect student efforts in this new protocol.

The MeasureCode to be used for this summary will be "FF"!! Is this OK with everyone?

14 Diagram of Franchises Partners Affiliates

Franchises Partners Affiliates

draft revision -- August 2, 2002



The GlobeFranchise column in the table WORKSHOP_SESSION may be replaced by the SESSION_TO_PARTNER table in Fall 2002!

15 Diagram of GLOBE Database Users

GLOBEDB_USERS

USERID	VARCHAR2(8)	null
NAME	VARCHAR2(32)	null
TELEPHONE	VARCHAR2(20)	null
EMAIL	VARCHAR2(50)	null
OFFICE	VARCHAR2(10)	null
COMMENTS	VARCHAR2(200)	null

WWW_USERS_VIEW

UserID
Name
CITY
STATEPROVCODE
COUNTRYCODE
TypeOfUser

GLOBE_SCHOOL

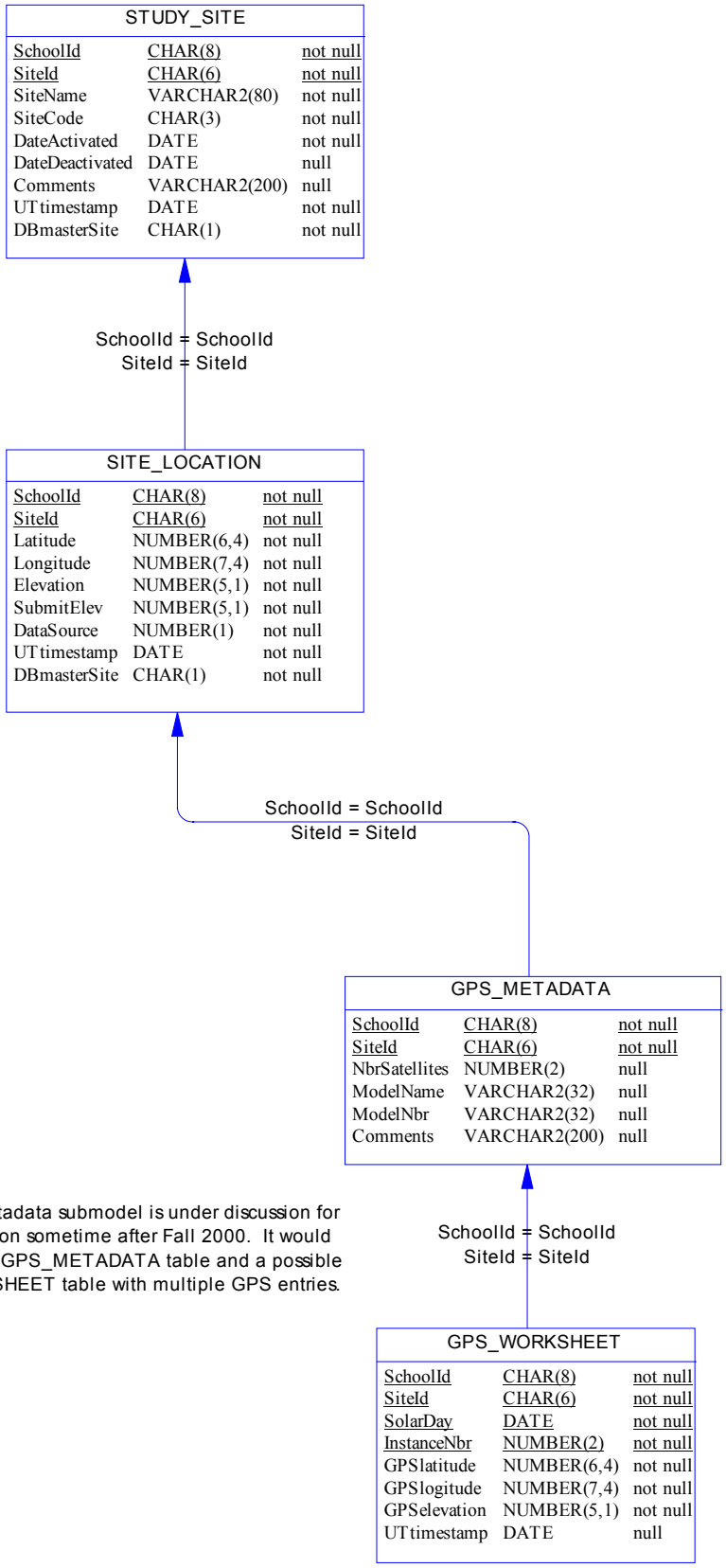
WWW_USERS

USERID	CHAR(8)	null
NAME	VARCHAR2(100)	null
CITY	VARCHAR2(35)	null
STATEPROVCODE	VARCHAR2(5)	null
COUNTRYCODE	CHAR(2)	null
TYPEOFUSER	VARCHAR2(9)	null

DB_MASTER_SITES

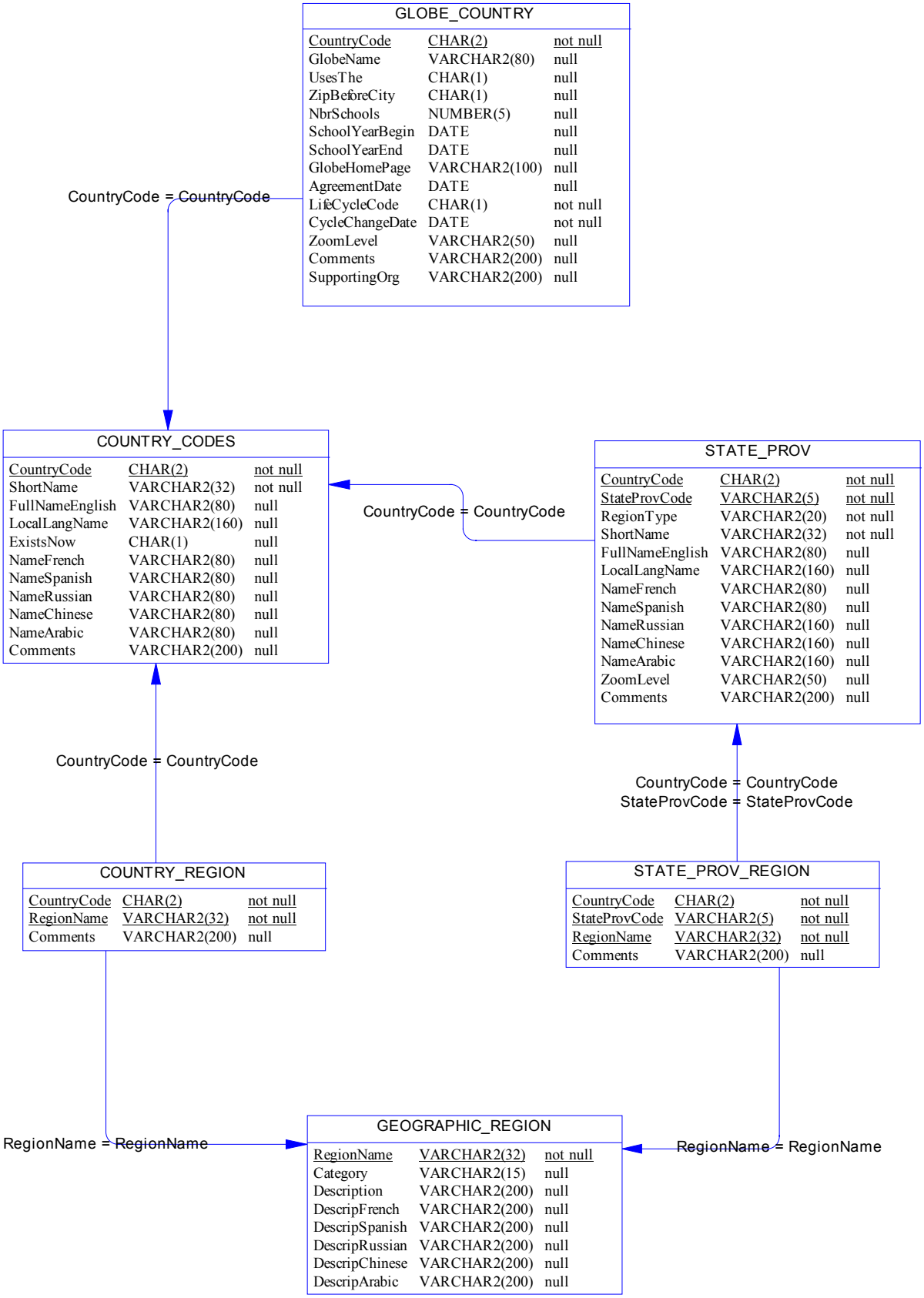
DBmasterSite	CHAR(1)	not null
Global_Name	VARCHAR2(32)	not null
Location	VARCHAR2(32)	not null
Cycle	CHAR(4)	null

16 Diagram of GPS Metadata

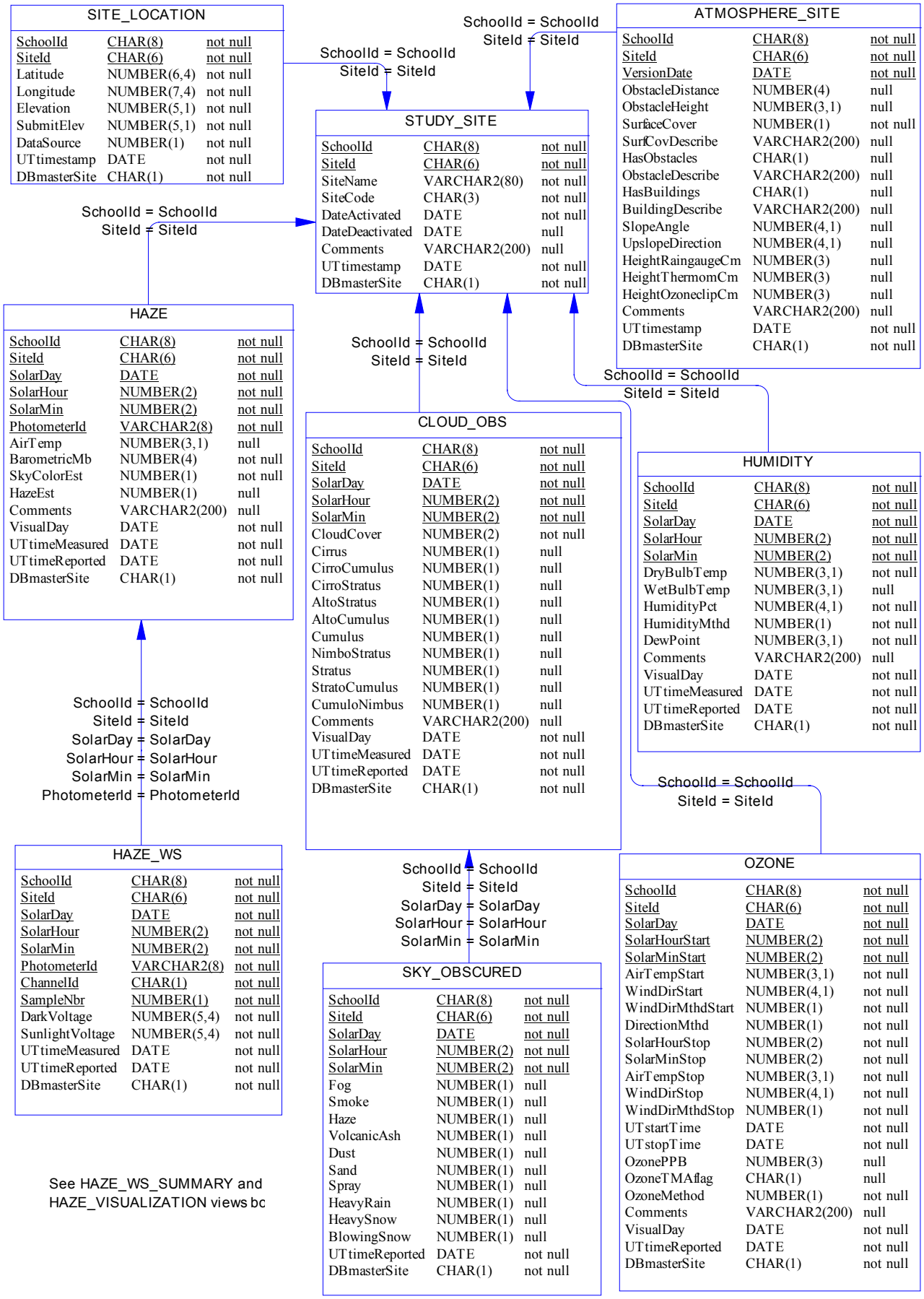


The GPS Metadata submodel is under discussion for implementation sometime after Fall 2000. It would consist of the GPS_METADATA table and a possible GPS_WORKSHEET table with multiple GPS entries.

17 Diagram of Geographic Regions


GLOBE_COUNTRY
CountryCode CHAR(2) not null
GlobeName VARCHAR2(80) null
UsesThe CHAR(1) null
ZipBeforeCity CHAR(1) null
NbrSchools NUMBER(5) null
SchoolYearBegin DATE null
SchoolYearEnd DATE null
GlobeHomePage VARCHAR2(100) null
AgreementDate DATE null
LifeCycleCode CHAR(1) not null
CycleChangeDate DATE not null
ZoomLevel VARCHAR2(50) null
Comments VARCHAR2(200) null
SupportingOrg VARCHAR2(200) null
CountryCode = CountryCode
COUNTRY_CODES
CountryCode CHAR(2) not null
ShortName VARCHAR2(32) not null
FullNameEnglish VARCHAR2(80) null
LocalLangName VARCHAR2(160) null
ExistsNow CHAR(1) null
NameFrench VARCHAR2(80) null
NameSpanish VARCHAR2(80) null
NameRussian VARCHAR2(80) null
NameChinese VARCHAR2(80) null
NameArabic VARCHAR2(80) null
Comments VARCHAR2(200) null
CountryCode = CountryCode
STATE_PROV
CountryCode CHAR(2) not null
StateProvCode VARCHAR2(5) not null
RegionType VARCHAR2(20) not null
ShortName VARCHAR2(32) not null
FullNameEnglish VARCHAR2(80) null
LocalLangName VARCHAR2(160) null
NameFrench VARCHAR2(80) null
NameSpanish VARCHAR2(80) null
NameRussian VARCHAR2(160) null
NameChinese VARCHAR2(160) null
NameArabic VARCHAR2(160) null
ZoomLevel VARCHAR2(50) null
Comments VARCHAR2(200) null
CountryCode = CountryCode
CountryCode = CountryCode
StateProvCode = StateProvCode
COUNTRY_REGION
CountryCode CHAR(2) not null
RegionName VARCHAR2(32) not null
Comments VARCHAR2(200) null
STATE_PROV_REGION
CountryCode CHAR(2) not null
StateProvCode VARCHAR2(5) not null
RegionName VARCHAR2(32) not null
Comments VARCHAR2(200) null
RegionName = RegionName
GEOGRAPHIC_REGION
RegionName VARCHAR2(32) not null
Category VARCHAR2(15) null
Description VARCHAR2(200) null
DescripFrench VARCHAR2(200) null
DescripSpanish VARCHAR2(200) null
DescripRussian VARCHAR2(200) null
DescripChinese VARCHAR2(200) null
DescripArabic VARCHAR2(200) null
RegionName = RegionName

18 Diagram of Haze Humidity Ozone


SITE_LOCATION
SchoolId CHAR(8) not null
SiteId CHAR(6) not null
Latitude NUMBER(6,4) not null
Longitude NUMBER(7,4) not null
Elevation NUMBER(5,1) not null
SubmitElev NUMBER(5,1) not null
DataSource NUMBER(1) not null
UTtimestamp DATE not null
DBmasterSite CHAR(1) not null
SchoolId = SchoolId
SiteId = SiteId
STUDY_SITE
SchoolId CHAR(8) not null
SiteId CHAR(6) not null
SiteName VARCHAR2(80) not null
SiteCode CHAR(3) not null
DateActivated DATE not null
DateDeactivated DATE null
Comments VARCHAR2(200) null
UTtimestamp DATE not null
DBmasterSite CHAR(1) not null
SchoolId = SchoolId
SiteId = SiteId
ATMOSPHERE_SITE
SchoolId CHAR(8) not null
SiteId CHAR(6) not null
VersionDate DATE not null
ObstacleDistance NUMBER(4) null
ObstacleHeight NUMBER(3,1) null
SurfaceCover NUMBER(1) not null
SurfCovDescribe VARCHAR2(200) null
HasObstacles CHAR(1) null
ObstacleDescribe VARCHAR2(200) null
HasBuildings CHAR(1) null
BuildingDescribe VARCHAR2(200) null
SlopeAngle NUMBER(4,1) null
UpslopeDirection NUMBER(4,1) null
HeightRaingaugeCm NUMBER(3) null
HeightThermomCm NUMBER(3) null
HeightOzoneclipCm NUMBER(3) null
Comments VARCHAR2(200) null
UTtimestamp DATE not null
DBmasterSite CHAR(1) not null
SchoolId = SchoolId
SiteId = SiteId
HAZE
SchoolId CHAR(8) not null
SiteId CHAR(6) not null
SolarDay DATE not null
SolarHour NUMBER(2) not null
SolarMin NUMBER(2) not null
PhotometerId VARCHAR2(8) not null
AirTemp NUMBER(3,1) null
BarometricMb NUMBER(4) not null
SkyColorEst NUMBER(1) not null
HazeEst NUMBER(1) null
Comments VARCHAR2(200) null
VisualDay DATE not null
UTtimeMeasured DATE not null
UTtimeReported DATE not null
DBmasterSite CHAR(1) not null
SchoolId = SchoolId
SiteId = SiteId
CLOUD_OBS
SchoolId CHAR(8) not null
SiteId CHAR(6) not null
SolarDay DATE not null
SolarHour NUMBER(2) not null
SolarMin NUMBER(2) not null
CloudCover NUMBER(2) not null
Cirrus NUMBER(1) null
CirroCumulus NUMBER(1) null
CirroStratus NUMBER(1) null
AltoStratus NUMBER(1) null
AltoCumulus NUMBER(1) null
Cumulus NUMBER(1) null
NimboStratus NUMBER(1) null
Stratus NUMBER(1) null
StratoCumulus NUMBER(1) null
CumuloNimbus NUMBER(1) null
Comments VARCHAR2(200) null
VisualDay DATE not null
UTtimeMeasured DATE not null
UTtimeReported DATE not null
DBmasterSite CHAR(1) not null
SchoolId = SchoolId
SiteId = SiteId
HUMIDITY
SchoolId CHAR(8) not null
SiteId CHAR(6) not null
SolarDay DATE not null
SolarHour NUMBER(2) not null
SolarMin NUMBER(2) not null
DryBulbTemp NUMBER(3,1) not null
WetBulbTemp NUMBER(3,1) null
HumidityPct NUMBER(4,1) not null
HumidityMthd NUMBER(1) not null
DewPoint NUMBER(3,1) not null
Comments VARCHAR2(200) null
VisualDay DATE not null
UTtimeMeasured DATE not null
UTtimeReported DATE not null
DBmasterSite CHAR(1) not null
SchoolId = SchoolId
SiteId = SiteId
SolarDay = SolarDay
SolarHour = SolarHour
SolarMin = SolarMin
PhotometerId = PhotometerId
HAZE_WS
SchoolId CHAR(8) not null
SiteId CHAR(6) not null
SolarDay DATE not null
SolarHour NUMBER(2) not null
SolarMin NUMBER(2) not null
PhotometerId VARCHAR2(8) not null
ChannelId CHAR(1) not null
SampleNbr NUMBER(1) not null
DarkVoltage NUMBER(5,4) not null
SunlightVoltage NUMBER(5,4) not null
UTtimeMeasured DATE not null
UTtimeReported DATE not null
DBmasterSite CHAR(1) not null
SchoolId = SchoolId
SiteId = SiteId
SolarDay = SolarDay
SolarHour = SolarHour
SolarMin = SolarMin
SKY_OBSCURED
SchoolId CHAR(8) not null
SiteId CHAR(6) not null
SolarDay DATE not null
SolarHour NUMBER(2) not null
SolarMin NUMBER(2) not null
Fog NUMBER(1) null
Smoke NUMBER(1) null
Haze NUMBER(1) null
VolcanicAsh NUMBER(1) null
Dust NUMBER(1) null
Sand NUMBER(1) null
Spray NUMBER(1) null
HeavyRain NUMBER(1) null
HeavySnow NUMBER(1) null
BlowingSnow NUMBER(1) null
UTtimeReported DATE not null
DBmasterSite CHAR(1) not null
SchoolId = SchoolId
SiteId = SiteId
OZONE
SchoolId CHAR(8) not null
SiteId CHAR(6) not null
SolarDay DATE not null
SolarHourStart NUMBER(2) not null
SolarMinStart NUMBER(2) not null
AirTempStart NUMBER(3,1) not null
WindDirStart NUMBER(4,1) not null
WindDirMthdStart NUMBER(1) not null
DirectionMthd NUMBER(1) not null
SolarHourStop NUMBER(2) not null
SolarMinStop NUMBER(2) not null
AirTempStop NUMBER(3,1) not null
WindDirStop NUMBER(4,1) not null
WindDirMthdStop NUMBER(1) not null
UTstartTime DATE not null
UTstopTime DATE not null
OzonePPB NUMBER(3) null
OzoneTMAflag CHAR(1) null
OzoneMethod NUMBER(1) not null
Comments VARCHAR2(200) null
VisualDay DATE not null
UTtimeReported DATE not null
DBmasterSite CHAR(1) not null
See HAZE_WS_SUMMARY and
HAZE_VISUALIZATION views bc

HAZE_VU1

SchoolId
SiteId
Month
MeasureCode
RowCnt
ATmpCnt
BarPCnt
SkyCCnt
HazeCnt
MinTPctG
MinTPctR
MaxTPctG
MaxTPctR
AvgTPctG
AvgTPctR
MinAOTG
MinAOTR
MaxAOTG
MaxAOTR
AvgAOTG
AvgAOTR
BegDate
EndDate
BegRDate
EndRDate
LagTimeAvg

HAZE_VISUALIZATION

HAZE_VU2

HAZE_VU1.*
dixoncnt

HAZE_VU1

HAZE_CNT

SchoolId	CHAR(8)	not null
SiteId	CHAR(6)	not null
Month	DATE	not null
MeasureCode	CHAR(2)	not null
RowCnt	Integer	not null
DixonCnt	Integer	not null
ATmpCnt	Integer	not null
BarPCnt	Integer	not null
SkyCCnt	Integer	not null
HazeCnt	Integer	not null
MinTPctG	NUMBER(4,1)	null
MinTPctR	NUMBER(4,1)	null
MaxTPctG	NUMBER(4,1)	null
MaxTPctR	NUMBER(4,1)	null
AvgTPctG	NUMBER(4,1)	null
AvgTPctR	NUMBER(4,1)	null
MinAOTG	NUMBER(4,3)	null
MinAOTR	NUMBER(4,3)	null
MaxAOTG	NUMBER(4,3)	null
MaxAOTR	NUMBER(4,3)	null
AvgAOTG	NUMBER(4,3)	null
AvgAOTR	NUMBER(4,3)	null
BegDate	DATE	not null
EndDate	DATE	not null
BegRDate	DATE	not null
EndRDate	DATE	not null
LagTimeAvg	Number(6,2)	not null

HAZE_WS_VU1

SchoolId
SiteId
Month
MeasureCode
RowCnt
VoltCnt
BegDate
EndDate
BegRDate
EndRDate
LagTimeAvg

HAZE_WS

HAZE_WS_VU2

HAZE_WS_VU1.*
DixonCnt

HAZE_WS_VU1

HAZE_WS_CNT

SchoolId	CHAR(8)	not null
SiteId	CHAR(6)	not null
Month	DATE	not null
MeasureCode	CHAR(2)	not null
RowCnt	Integer	not null
DixonCnt	Integer	not null
VoltCnt	Integer	not null
BegDate	DATE	not null
EndDate	DATE	not null
BegRDate	DATE	not null
EndRDate	DATE	not null
LagTimeAvg	Number(6,2)	not null

HUMIDITY_VU1

SchoolId
SiteId
Month
MeasureCode
RowCnt
SPsycCnt
HydromCnt
HumPctAvg
DewPtAvg
BegDate
EndDate
BegRDate
EndRDate
LagTimeAvg

HUMIDITY

HUMIDITY_VU2

HUMIDITY_VU1.*
DixonCnt

HUMIDITY_VU1

HUMIDITY_CNT

SchoolId	CHAR(8)	not null
SiteId	CHAR(6)	not null
Month	DATE	not null
MeasureCode	CHAR(2)	not null
RowCnt	Integer	not null
DixonCnt	Integer	not null
SPsycCnt	Integer	not null
HydromCnt	Integer	not null
HumPctAvg	NUMBER(4,1)	null
DewPtAvg	NUMBER(3,1)	null
BegDate	DATE	not null
EndDate	DATE	not null
BegRDate	DATE	not null
EndRDate	DATE	not null
LagTimeAvg	Number(6,2)	not null

OZONE_VU1

SchoolId
SiteId
Month
MeasureCode
RowCnt
ATbCnt
ATeCnt
WDbCnt
WDeCnt
OzPPBCnt
OzMflgCnt
OzPPBAvg
BegDate
EndDate
BegRDate
EndRDate
LagTimeAvg

OZONE

OZONE_VU2

OZONE_VU1.*
DixonCnt

OZONE_VU1

SKY_OBSCURED_VU1

SchoolId
SiteId
Month
MeasureCode
RowCnt
SOTypCnt
FogSum
SmkSum
HazSum
VoASum
DusSum
SanSum
SprSum
HRnSum
HSnSum
BSnSum
MIN(SolarDay+Solarhou
MAX(SolarDay+Solarhou
BegRDate
EndRDate
LagTimeAvg

SKY_OBSCURED

SKY_OBSCURED_VU2

SKY_OBSCURED_VU1.*
DixonCnt

SKY_OBSCURED_VU1

OZONE_CNT

SchoolId	CHAR(8)	not null
SiteId	CHAR(6)	not null
Month	DATE	not null
MeasureCode	CHAR(2)	not null
RowCnt	Integer	not null
DixonCnt	Integer	not null
ATbCnt	Integer	not null
ATeCnt	Integer	not null
WDbCnt	Integer	not null
WDeCnt	Integer	not null
OzPPBCnt	Integer	not null
OzMflgCnt	Integer	not null
OzPPBAvg	NUMBER(3)	null
BegDate	DATE	not null
EndDate	DATE	not null
BegRDAte	DATE	not null
EndRDate	DATE	not null
LagTimeAvg	Number(6,2)	not null

SKY_OBSCURED_CNT

SchoolId	CHAR(8)	not null
SiteId	CHAR(6)	not null
Month	DATE	not null
MeasureCode	CHAR(2)	not null
RowCnt	Integer	not null
DixonCnt	Integer	not null
SOTypCnt	Integer	not null
FogSum	Integer	null
SmkSum	Integer	null
HazSum	Integer	null
VoASum	Integer	null
DusSum	Integer	null
SanSum	Integer	null
SprSum	Integer	null
HRnSum	Integer	null
BSnSum	Integer	null
BegDate	DATE	not null
EndDate	DATE	not null
BegRDate	DATE	not null
EndRDate	DATE	not null
LagTimeAvg	Number(6,2)	not null

PHOTOMETER_CALIB

PhotometerId	VARCHAR2(8)	not null
ChannelId	CHAR(1)	not null
CalibDate	DATE	not null
ETconst	NUMBER4,3)	not null
DarkVoltage	NUMBER(5,4)	not null
Sensitivity	NUMBER(5,4)	not null
CalibSource	CHAR(4)	
Wavelength	NUMBER(4)	
Comments	VARCHAR2(	

HAZE_VISUALIZATION

SchoolId
SiteId
SolarDay
SolarHour
SolarMin
PhotometerId
AirTemp
BarometricMb
SkyColorEst
HazeEst
Red_AOTAvg
Red_AOTMin
Red_AOTMax
Red_TransPctAvg
Red_TransPctMin
Red_TransPctMax
Gm_AOTAvg
Gm_AOTMin
Gm_AOTMax
Gm_TransPctAvg
Gm_TransPctMin
Gm_TransPctMax
Comments
VisualDay
UTtimeMeasured
UTtimeReported
DBmasterSite

GLOBE.HAZE
GLOBE.HAZE_WS_SUMMA

HAZE_WS_CALC

SCHOOLID
SITEID
SOLARDAY
SOLARHOUR
SOLARMIN
PHOTOMETERID
CHANNELID
SAMPLENBR
DARKVOLTAGE
SUNLIGHTVOLTAGE
AOT
TransmissionPct
UTTimeMeasured
UTTimeReported

HAZE
HAZE_WS
PHOTOMETER_CALIB
SITE_LOCATION

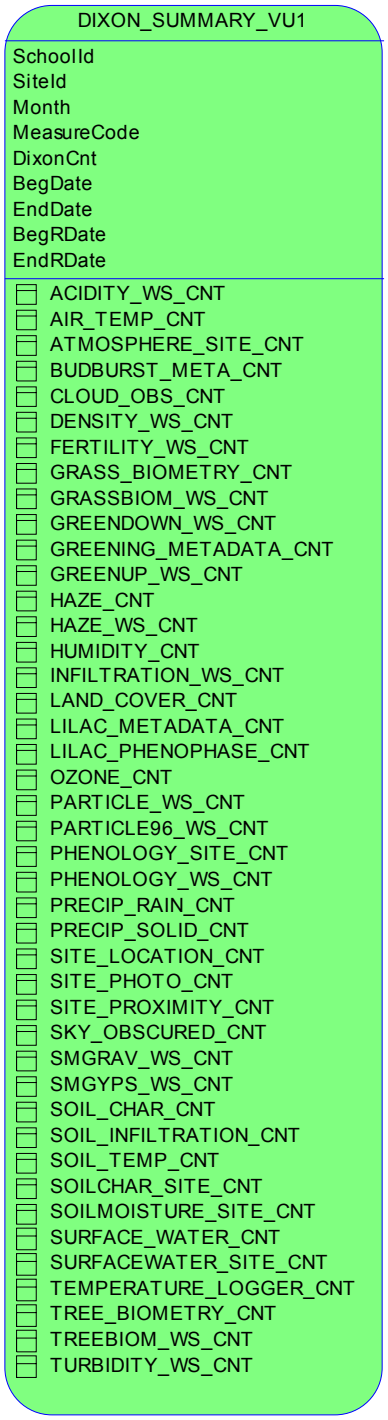
HAZE_WS_SUMMARY

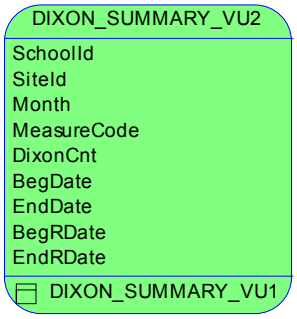
SCHOOLID
SITEID
SOLARDAY
SOLARHOUR
SOLARMIN
PHOTOMETERID
CHANNELID
Round(Avg(HWC_AOT),4)
Round(Min(HWC_AOT),4)
Round(Max(HWC_AOT),4)
Round(Avg(HWC_TRANSMISSIONPCT
Round(Min(HWC_TRANSMISSIONPCT
Round(Max(HWC_TRANSMISSIONPC

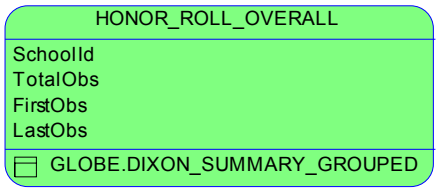
GLOBE.HAZE_WS_CALC

19 Diagram of Honor Roll

Honor Roll Overall







DIXON_SUMMARY_GROUPED

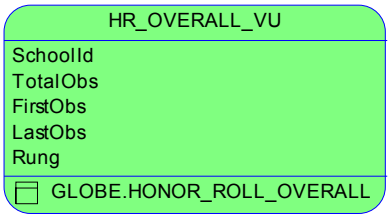
SchoolId	CHAR(8)	not null
Month	DATE	not null
GroupCode	CHAR(4)	not null
DixonCnt	INTEGER	not null
BegDate	DATE	not null
EndDate	DATE	not null
BegRDate	DATE	not null
EndRDate	DATE	not null

The Overall Honor Roll will be calculated 6 times per year for the honor roll time periods that end in Jan, Mar, May, Jul, Sep, and Nov. The execution of HONOR_ROLL_OVERALL at about10am ET on the 9-th day of Feb, Apr, Jun, Aug, Oct, Dec, Feb and Apr will list the honor roll sites for the preceding 4 or 12-month time periods. Data from all sites enter into the calculation, including sites not yet formally located using GPS or Other approved site location methods.

The honor roll listings are sub-divided according to their measurements beginning with 500 or more measurements up to much larger measurement categories.

HR_OVERALL_CURRENT

SchoolId	CHAR(8)	not null
TotalObs	INTEGER	not null
FirstObs	DATE	not null
LastObs	DATE	not null
Rung	INTEGER	not null



HR_OVERALL_PREVIOUS

SchoolId	CHAR(8)	not null
TotalObs	INTEGER	not null
FirstObs	DATE	not null
LastObs	DATE	not null
Rung	INTEGER	not null

Atmosphere Honor Roll

ATMOS_PR_HR1
- SchoolId
- SiteId
- Month
- SumRDays
- 0
- 0
- GLOBE.PRECIP_RAIN_CNT

ATMOS_PRECIP_HR1
- SCHOOLID
- SITEID
- MONTH
- SUMRDAYS
- SUMSDAYS
- SUMREDAYS
- ATMOS_PR_HR1
- ATMOS_PS_HR1

This view is the UNION of the above 2 views

ATMOS_PS_HR1
- SchoolId
- SiteId
- Month
- SumRDays
- SumSDays
- SumREDays
- GLOBE.PRECIP_SOLID_CNT

ATMOS_PRECIP_HR2
- SchoolId
- SiteId
- Month
- SumRDays
- SumSDays
- SumREDays
- ATMOS_PRECIP_HR1

This view groups on the first 3 columns and sums over the other columns to determine the precip sites that satisfy the precipitation criteria for the honor roll.

ATMOS_TEMP_HR1
- SchoolId
- SiteId
- Month
- CurTCnt
- MaxTCnt
- MinTCnt
- TempDays
- GLOBE.AIR_TEMP_CNT
- GLOBE.SITE_LOCATION

This view analyzes the AIR_TEMP table to determine the air temperature sites that satisfy the temperature criteria for the honor roll.

ATMOS_HRDX
- SchoolId
- SiteId
- Month
- Scope
- DixonCnt
- GLOBE.DIXON_SUMMARY_VU2

This view retrieves the DixonCnt for AirTemp, PrecipRain, and PrecipSolid from the appropriate _CNT tables.

ATMOS_HR1
- HRnbr
- SchoolId
- SiteId
- MIN(T_Month)
- MAX(T_Month)
- TempDays
- PrecipDays
- DixonCnt
- ATMOS_PRECIP_HR2
- ATMOS_TEMP_HR1
- ATMOS_HRDX

ATMOS_HR2
- ATMOS_HR1.*
- LocMethod
- GLOBE.ATMOS_HR1
- GLOBE.SITE_LOCATION

ATMOS_HR3
- HRnbr
- SchoolId
- DixonCnt
- BeginMonth
- EndMonth
- ATMOS_HR2

The Atmosphere Honor Roll will be calculated 6 times per year for the 4-month periods that end in Jan, Mar, May, Jul, Sep, and Nov. The execution of the CURRENT snapshot at about 10am ETon the 9-th day of Feb, Apr, Jun, Aug, Oct, and Dec will list the honor roll sites for the previous 4-month periods. It's calculation depends on ATMOS_HR3. The PREVIOUS snapshot is executed about 10am ET on the 1-st day of the same months, and it just copies the content of CURRENT into PREVIOUS.

HR_ATMOS_CURRENT

HRnbr	INTEGER	not null
SchoolId	CHAR(8)	not null
DixonCnt	INTEGER	not null
BeginMonth	DATE	not null
EndMonth	DATE	not null

HR_ATMOS_PREVIOUS

HRnbr	INTEGER	not null
SchoolId	CHAR(8)	not null
DixonCnt	INTEGER	not null
BeginMonth	DATE	not null
EndMonth	DATE	not null

Hydrology Honor Roll

Grouping by Week on the base table SURFACE_WATER to get weekly properties of the protocol.

The following 6 views use Dixon's Honor Roll criteria to determine "good sites" and "bad sites" (i.e. frozen or dry) over the past 17 week period. They are then joined with SURFACE_WATER_CNT to get the DixonCnt for Hydrology over the appropriate time period.

The Hydrology Honor Roll will be calculated 6 times per year for the 4-month periods that end in Jan, Mar, May, Jul, Sep, and Nov. The execution of view SURFACE_WATER_HR6 as the HR_HYDRO_CURRENT snapshot at 10am ET on the 9-th day of Feb, Apr, Jun, Aug, Oct, and Dec will list the honor roll sites for the previous 4-month periods. The PREVIOUS snapshot is done over the CURRENT snapshot on the 1-st day of the same months.

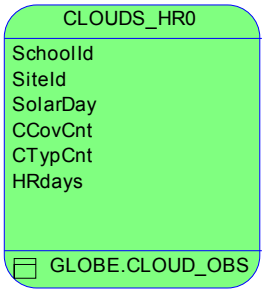
HR_HYDRO_CURRENT

HRnbr	INTEGER	not null
SchoolId	CHAR(8)	not null
DixonCnt	INTEGER	not null
BeginMonth	DATE	not null
EndMonth	DATE	not null

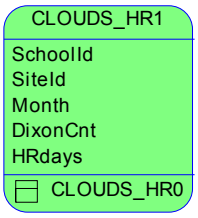
HR_HYDRO_PREVIOUS

HRnbr	INTEGER	not null
SchoolId	CHAR(8)	not null
DixonCnt	INTEGER	not null
BeginMonth	DATE	not null
EndMonth	DATE	not null

Clouds Honor Roll

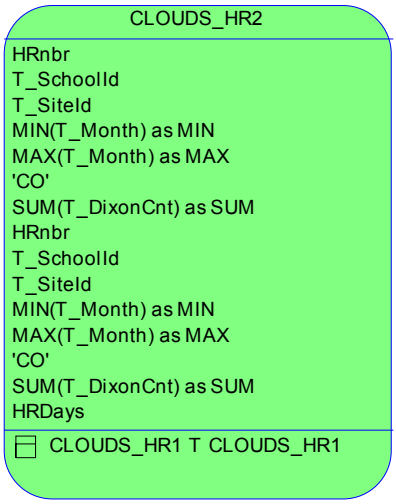


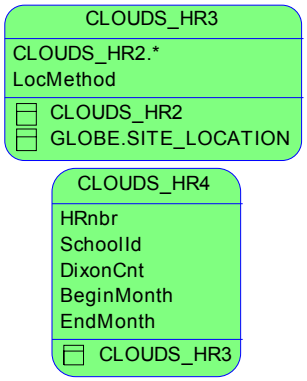
Grouping by Day on the base table CLOUD_OBS to determine if the site satisfies the honor roll requirements for that day. Recall that schools may make multiple cloud observations per day.



Grouping by Month on HR0 to determine both the DixonCnt for the Month and the number of days in the Month eligible for Honor Roll. Note that the DixonCnt is determined independently of the DixonCnt in the CLOUD_OBS_CNT table. Any changes in one will have to be reconciled with the other!

The view CLOUDS_HR2 groups the Months from view HR1 into overlapping 4-month periods beginning Feb 1, 1999, and applies the honor roll criteria that cloud observations must be reported for more than 70% of the days in any 4-month period.





The Clouds Honor Roll will be calculated 6 times per year for the 4-month periods that end in January, March, May, July, September, and November. The execution of CLOUDS_HR4 at 10am ET on the 9-th day of February, April, June, August, October, and December, to populate the snapshot HR_HYDR_CURRENT, will identify the Hydrology honor roll sites for the previous 4-month periods. The snapshot HR_HYDRO_PREVIOUS is populated from the CURRENT snapshot on the 1-st day of the same months.

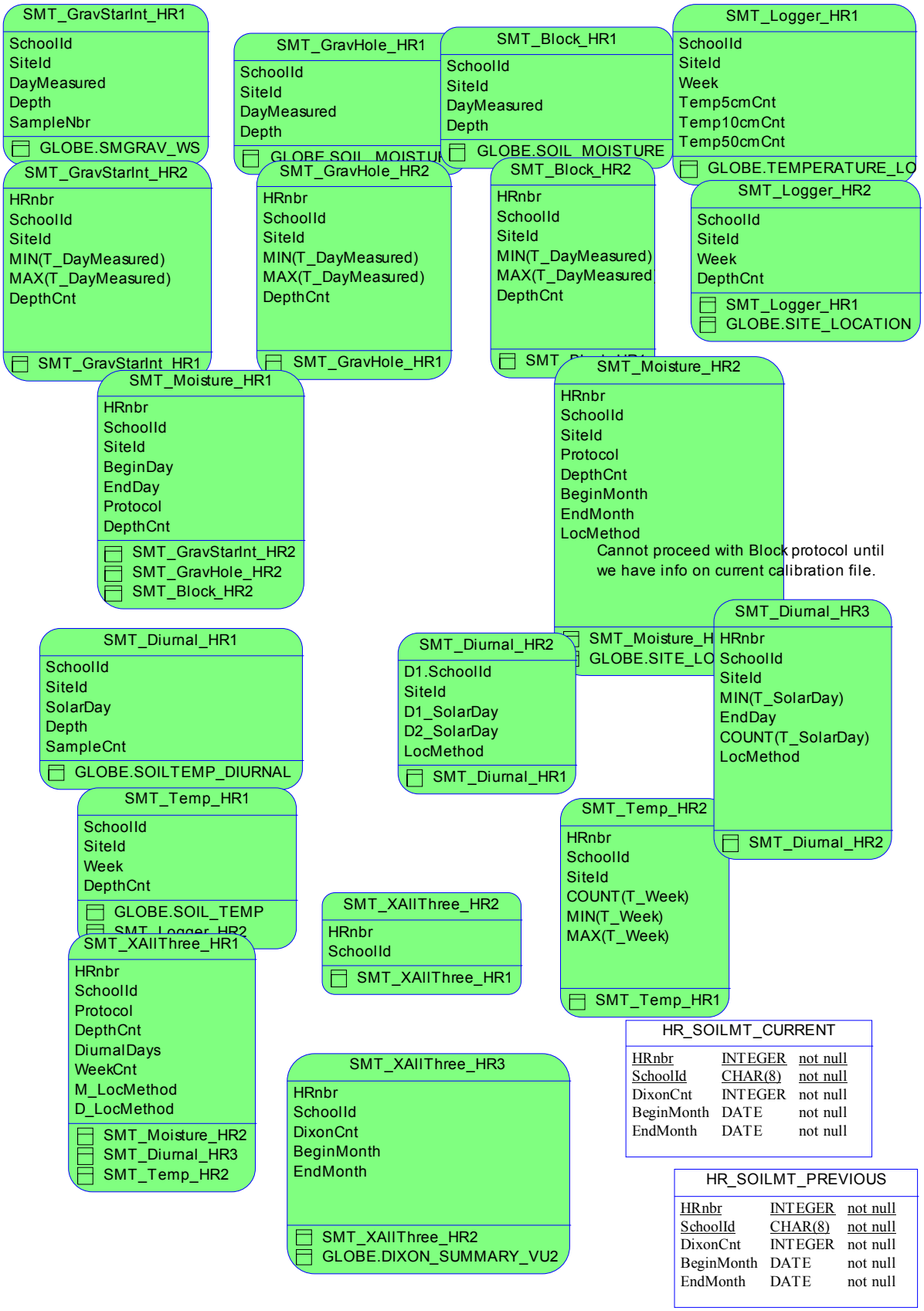
HR_CLOUDS_CURRENT

HRnbr	INTEGER	not null
SchoolId	CHAR(8)	not null
DixonCnt	INTEGER	not null
BeginMonth	DATE	not null
EndMonth	DATE	not null

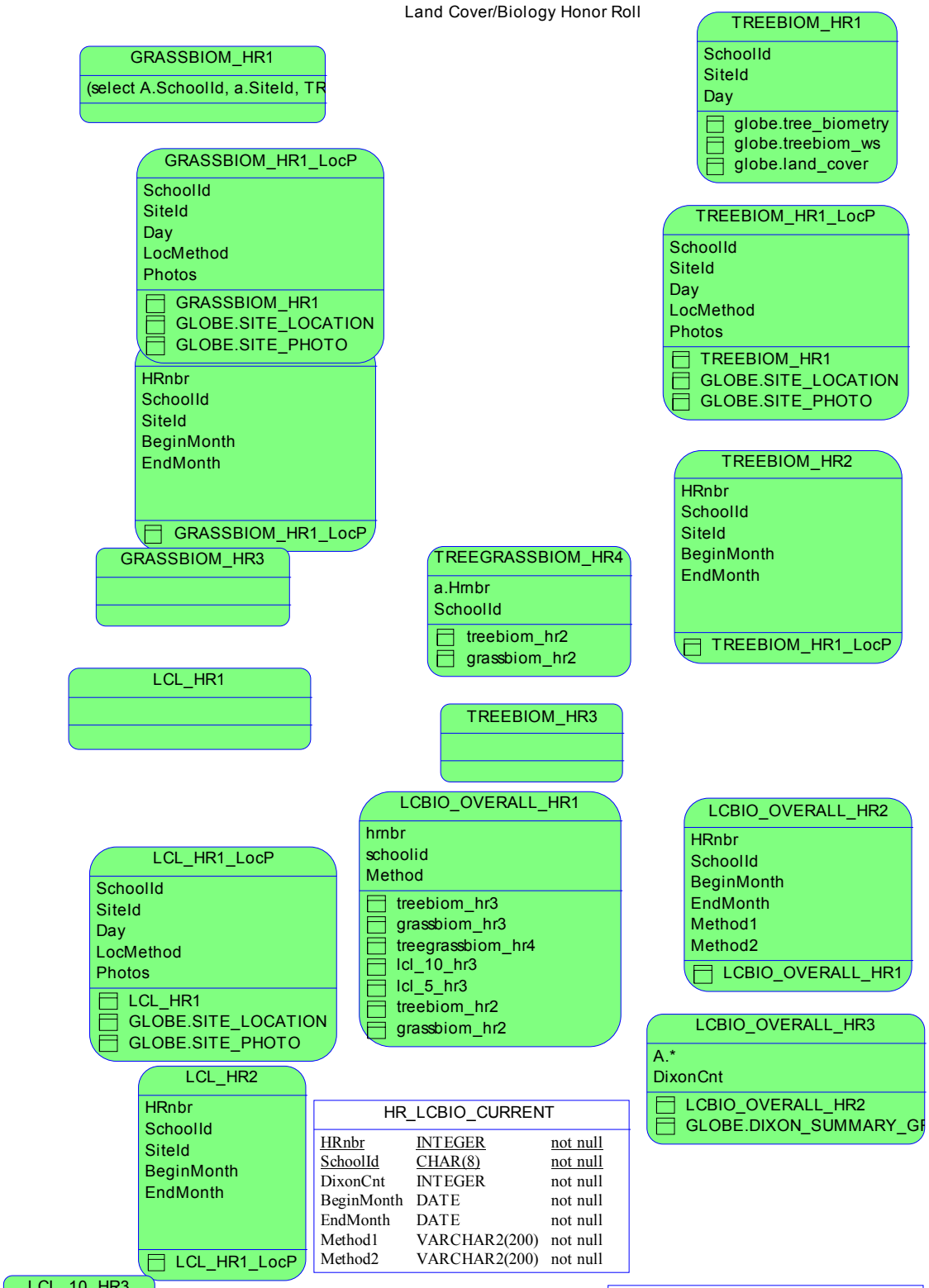
HR_CLOUDS_PREVIOUS

HRnbr	INTEGER	not null
SchoolId	CHAR(8)	not null
DixonCnt	INTEGER	not null
BeginMonth	DATE	not null
EndMonth	DATE	not null

Soil Moisture and Temperature Honor Roll



Land Cover/Biology Honor Roll



HR_LCBIO_CURRENT

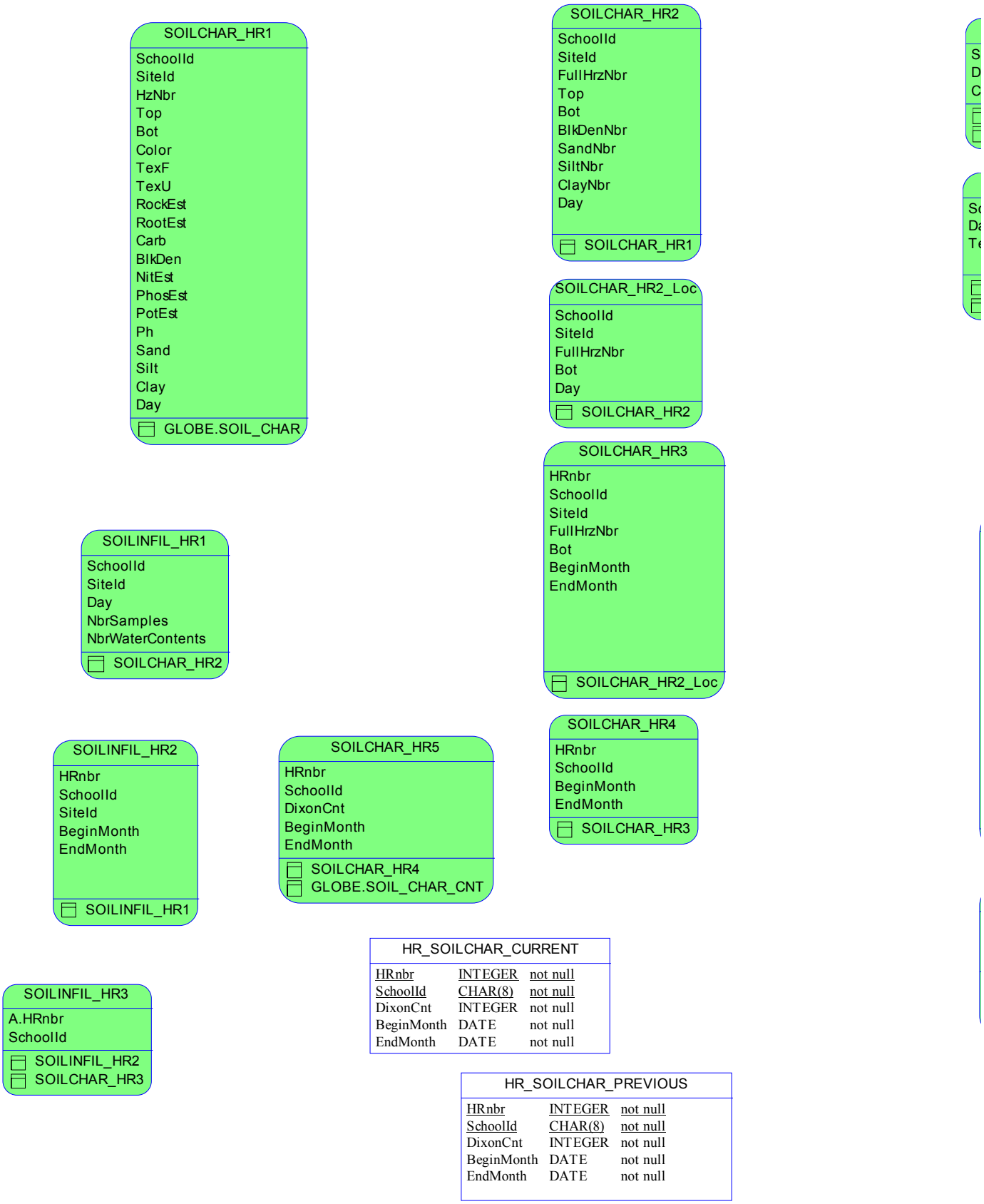
HRnbr	INTEGER	not null
SchoolId	CHAR(8)	not null
DixonCnt	INTEGER	not null
BeginMonth	DATE	not null
EndMonth	DATE	not null
Method1	VARCHAR2(200)	not null
Method2	VARCHAR2(200)	not null

The two LCBIO snapshots are taken every two months. The CURRENT snapshot is over view LCBIO_OVERALL_HR3, and is calculated about 10am ET on the 9-th day of Jun,Aug,Oct, Dec,Feb,Apr. The PREVIOUS snapshot is over the current snapshot and is calculated on the 1-st day of

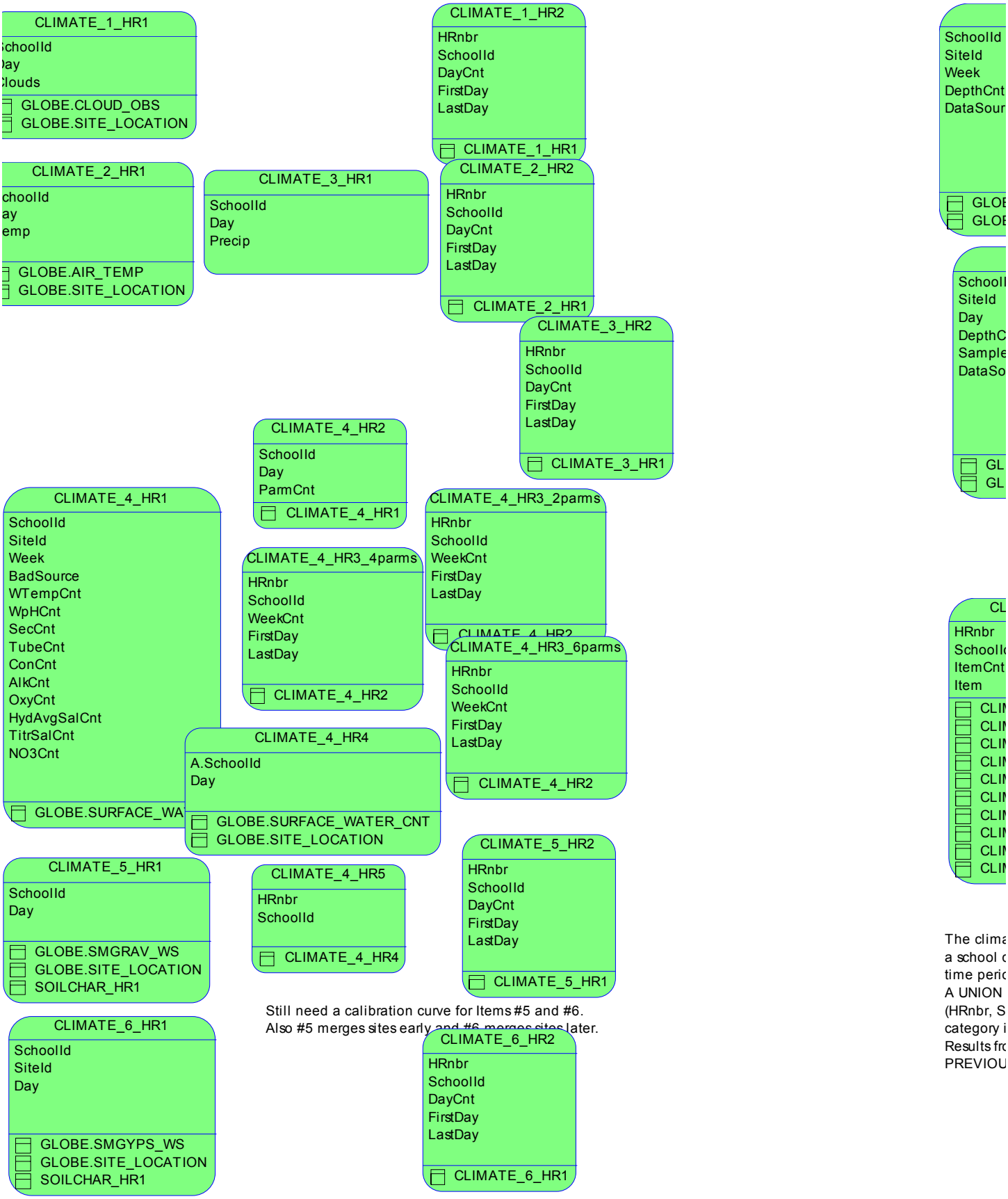
HR_LCBIO_PREVIOUS

HRnbr	INTEGER	not null
SchoolId	CHAR(8)	not null
DixonCnt	INTEGER	not null
BeginMonth	DATE	not null
EndMonth	DATE	not null
Method1	VARCHAR2(200)	not null
Method2	VARCHAR2(200)	not null

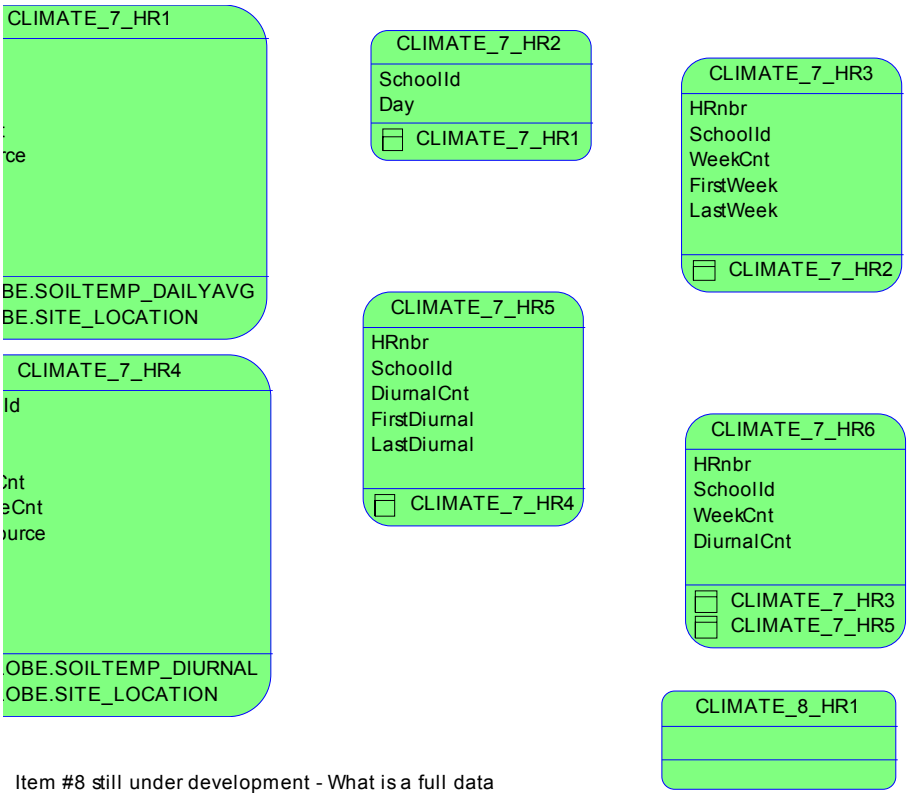
Soil Characterization Honor Roll



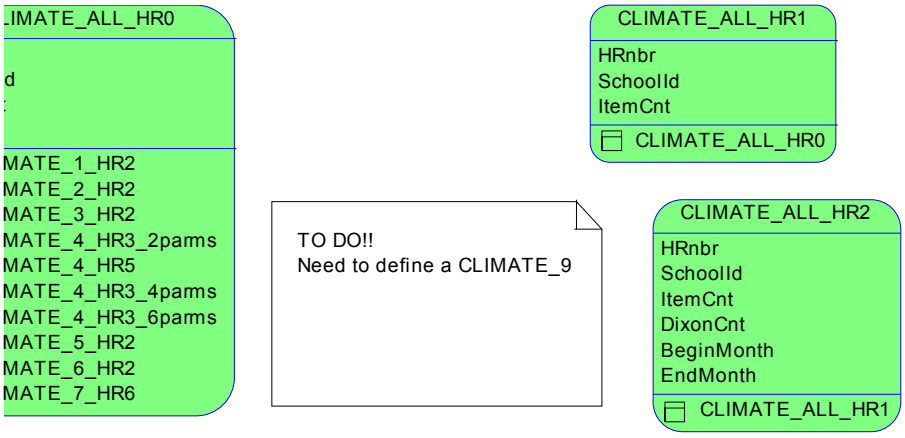
Climate Honor Roll



Climate Honor Roll - 2nd page



Item #8 still under development - What is a full data report from a Biology Site. When does 3-year period start?



ate Honor Roll has 8 different categories. If qualifies in 3 or more categories for a given od, they qualify for the Climate HR.
of the above results can be grouped by SchoolId) with a COUNT of the number of items satisfied.
om above can populate the CURRENT and JS snapshots below.

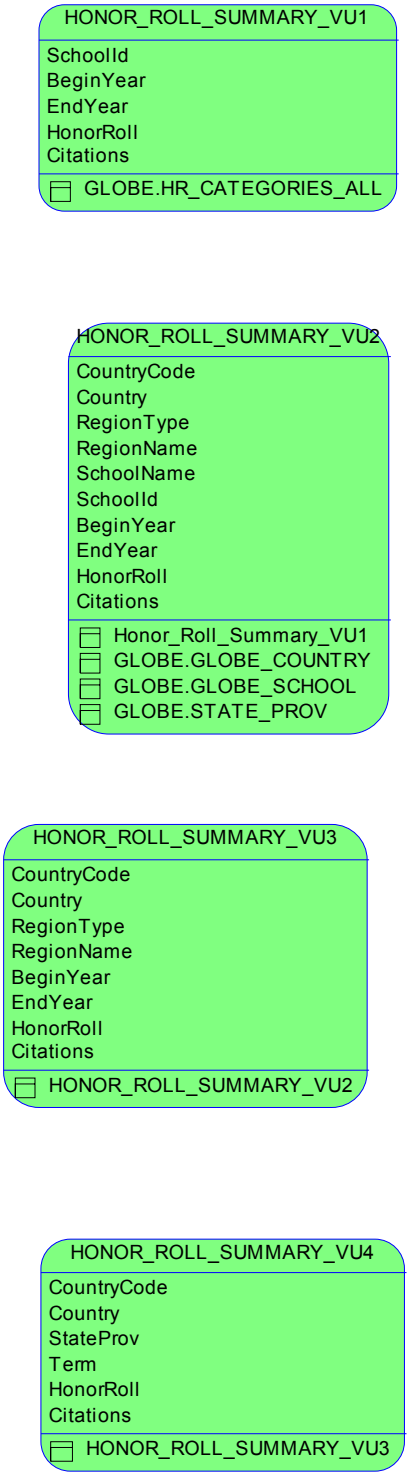
HR_CLIMATE_CURRENT

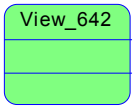
HRnbr	INTEGER	not null
School	CHAR(8)	not null
DixonCnt	INTEGER	not null
BeginMonth	DATE	not null
EndMonth	DATE	not null
ItemCnt	INTEGER	not null

HR_CLIMATE_PREVIOUS

HRnbr	INTEGER	not null
SchoolId	CHAR(8)	not null
DixonCnt	INTEGER	not null
BeginMonth	DATE	not null
EndMonth	DATE	not null
ItemCnt	INTEGER	not null

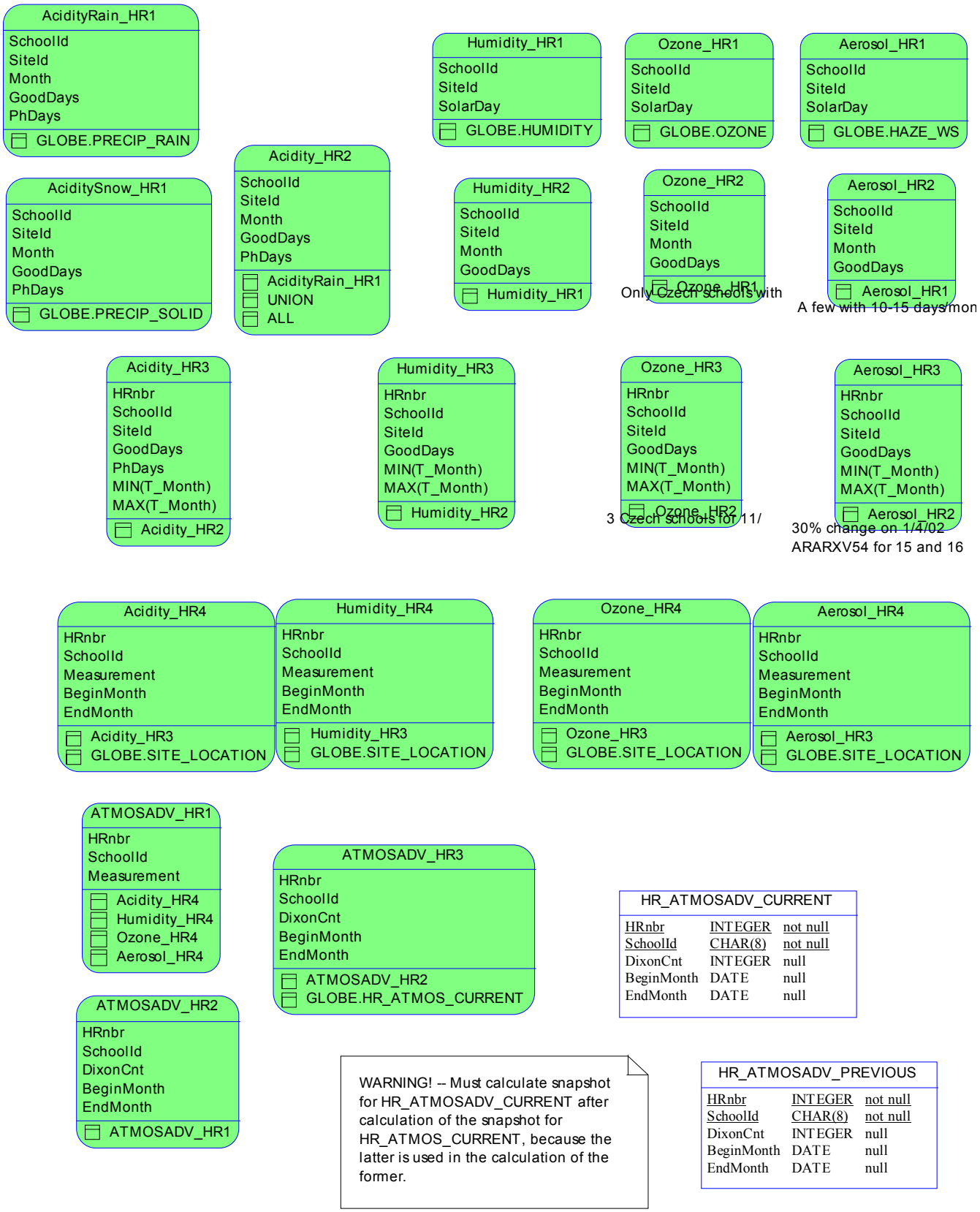
Honor Roll Summary




View_642

20 Diagram of Honor Roll _ AdvAtmos

Advanced Atmosphere Honor Roll



HR_ATMOSADV_CURRENT

HRnbr	INTEGER	not null
SchoolId	CHAR(8)	not null
DixonCnt	INTEGER	null
BeginMonth	DATE	null
EndMonth	DATE	null

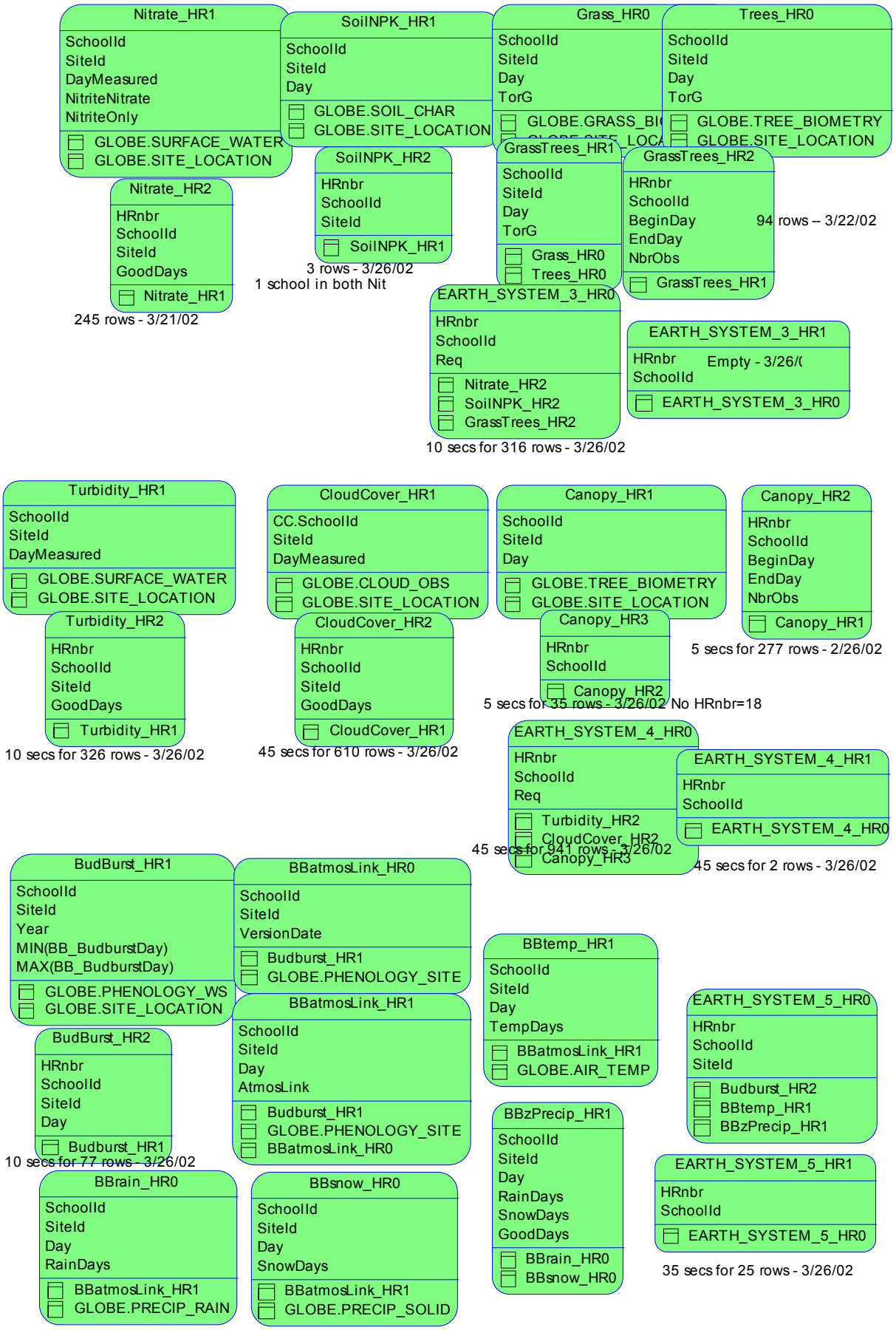
HR_ATMOSADV_PREVIOUS

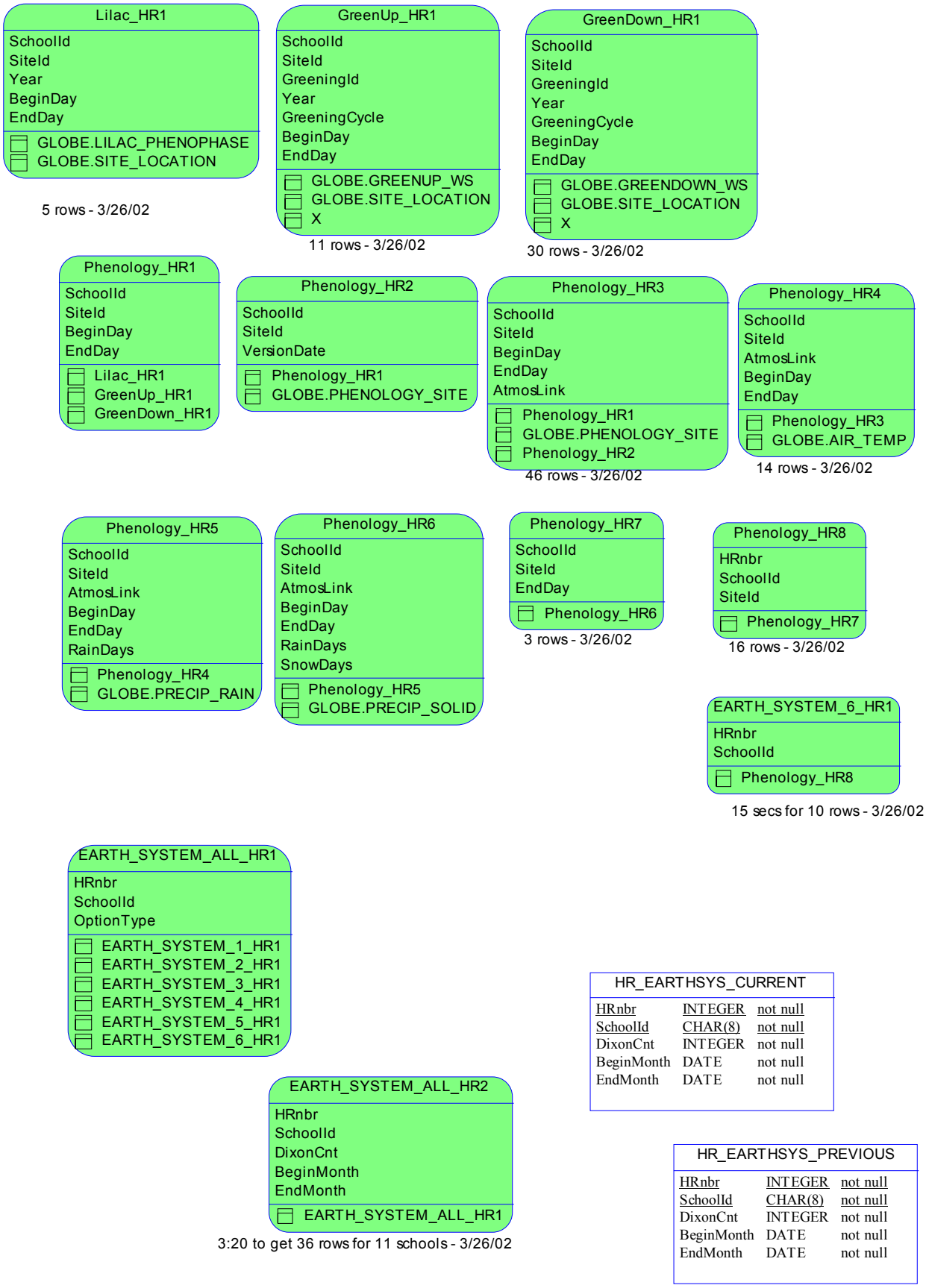
HRnbr	INTEGER	not null
SchoolId	CHAR(8)	not null
DixonCnt	INTEGER	null
BeginMonth	DATE	null
EndMonth	DATE	null

21 Diagram of Honor Roll _ Earth System

Honor Roll – Earth System Science

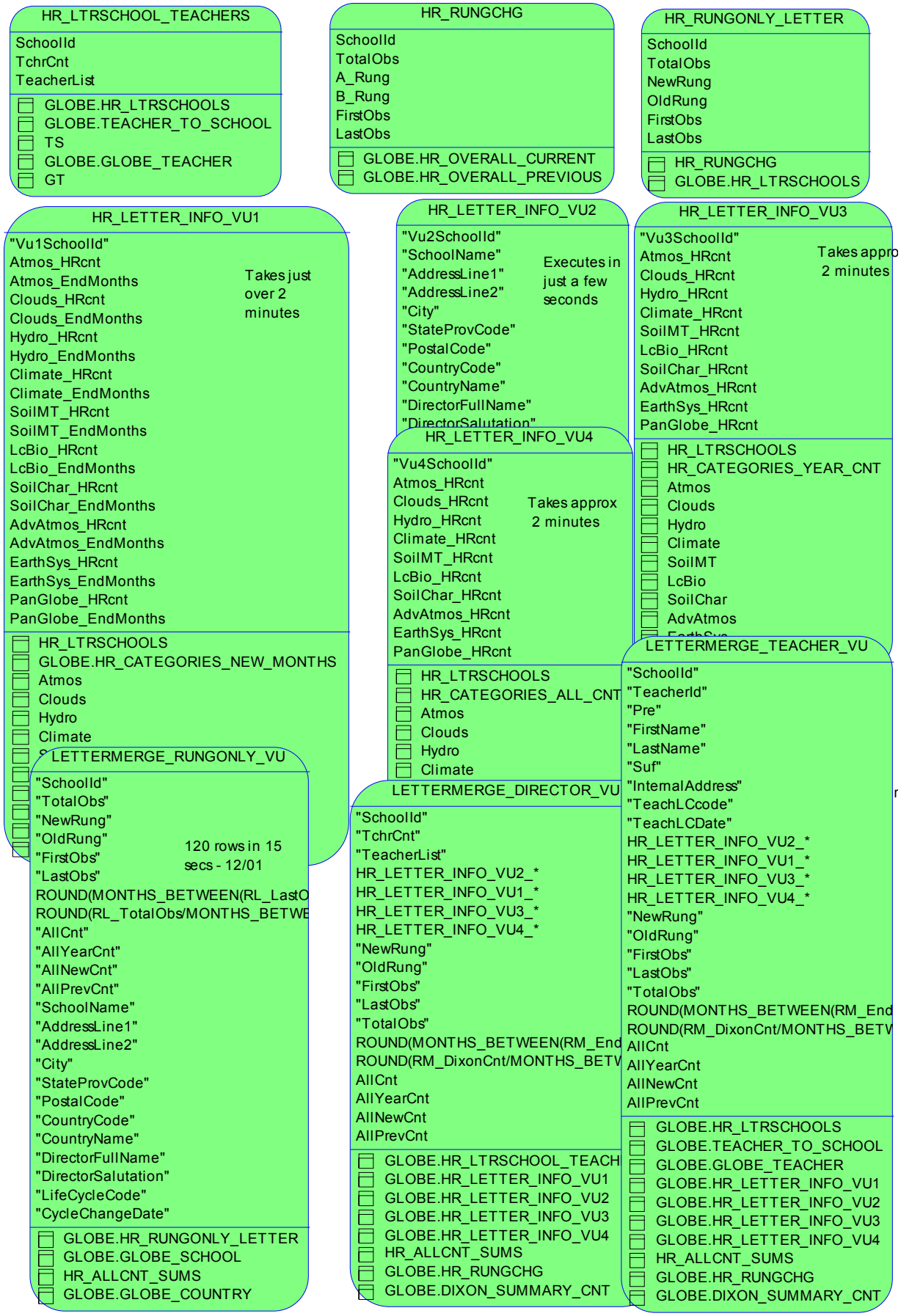
Design Completed – March 26, 2002


Nitrate_HR1
SchoolId
SiteId
DayMeasured
NitriteNitrate
NitriteOnly
GLOBE.SURFACE_WATER
GLOBE.SITE_LOCATION
SoilNPK_HR1
SchoolId
SiteId
Day
GLOBE.SOIL_CHAR
GLOBE.SITE_LOCATION
Grass_HR0
SchoolId
SiteId
Day
TorG
GLOBE.GRASS_BI
Trees_HR0
SchoolId
SiteId
Day
TorG
GLOBE.TREE_BIOMETRY
GLOBE.SITE_LOCATION
Nitrate_HR2
HRnbr
SchoolId
SiteId
GoodDays
Nitrate_HR1
245 rows - 3/21/02
SoilNPK_HR2
HRnbr
SchoolId
SiteId
SoilNPK_HR1
3 rows - 3/26/02
1 school in both Nit
GrassTrees_HR1
SchoolId
SiteId
Day
TorG
Grass_HR0
Trees_HR0
GrassTrees_HR2
HRnbr
SchoolId
BeginDay
EndDay
NbrObs
GrassTrees_HR1
94 rows – 3/22/02
EARTH_SYSTEM_3_HR0
HRnbr
SchoolId
Req
Nitrate_HR2
SoilNPK_HR2
GrassTrees_HR2
10 secs for 316 rows - 3/26/02
EARTH_SYSTEM_3_HR1
HRnbr
SchoolId
Empty - 3/26/(
EARTH_SYSTEM_3_HR0
Turbidity_HR1
SchoolId
SiteId
DayMeasured
GLOBE.SURFACE_WATER
GLOBE.SITE_LOCATION
Turbidity_HR2
HRnbr
SchoolId
SiteId
GoodDays
Turbidity_HR1
10 secs for 326 rows - 3/26/02
CloudCover_HR1
CC.SchoolId
SiteId
DayMeasured
GLOBE.CLOUD_OBS
GLOBE.SITE_LOCATION
CloudCover_HR2
HRnbr
SchoolId
SiteId
GoodDays
CloudCover_HR1
45 secs for 610 rows - 3/26/02
Canopy_HR1
SchoolId
SiteId
Day
GLOBE.TREE_BIOMETRY
GLOBE.SITE_LOCATION
Canopy_HR3
HRnbr
SchoolId
Canopy_HR2
5 secs for 35 rows - 3/26/02 No HRnbr=18
Canopy_HR2
HRnbr
SchoolId
BeginDay
EndDay
NbrObs
Canopy_HR1
5 secs for 277 rows - 2/26/02
EARTH_SYSTEM_4_HR0
HRnbr
SchoolId
Req
Turbidity_HR2
CloudCover_HR2
Canopy_HR3
45 secs for 941 rows - 3/26/02
EARTH_SYSTEM_4_HR1
HRnbr
SchoolId
EARTH_SYSTEM_4_HR0
45 secs for 2 rows - 3/26/02
BudBurst_HR1
SchoolId
SiteId
Year
MIN(BB_BudburstDay)
MAX(BB_BudburstDay)
GLOBE.PHENOLOGY_WS
GLOBE.SITE_LOCATION
BBatmosLink_HR0
SchoolId
SiteId
VersionDate
Budburst_HR1
GLOBE.PHENOLOGY_SITE
BBtemp_HR1
SchoolId
SiteId
Day
TempDays
BBatmosLink_HR1
GLOBE.AIR_TEMP
BBatmosLink_HR1
SchoolId
SiteId
Day
AtmosLink
Budburst_HR1
GLOBE.PHENOLOGY_SITE
BBatmosLink_HR0
EARTH_SYSTEM_5_HR0
HRnbr
SchoolId
SiteId
Budburst_HR2
BBtemp_HR1
BBzPrecip_HR1
BudBurst_HR2
HRnbr
SchoolId
SiteId
Day
Budburst_HR1
10 secs for 77 rows - 3/26/02
BBzPrecip_HR1
SchoolId
SiteId
Day
RainDays
SnowDays
GoodDays
BBrain_HR0
BBsnow_HR0
EARTH_SYSTEM_5_HR1
HRnbr
SchoolId
EARTH_SYSTEM_5_HR0
35 secs for 25 rows - 3/26/02
BBrain_HR0
SchoolId
SiteId
Day
RainDays
BBatmosLink_HR1
GLOBE.PRECIP_RAIN
BBsnow_HR0
SchoolId
SiteId
Day
SnowDays
BBatmosLink_HR1
GLOBE.PRECIP_SOLID


Lilac_HR1
SchoolId
SiteId
Year
BeginDay
EndDay
GLOBE.LILAC_PHENOPHASE
GLOBE.SITE_LOCATION
5 rows - 3/26/02
GreenUp_HR1
SchoolId
SiteId
GreeningId
Year
GreeningCycle
BeginDay
EndDay
GLOBE.GREENUP_WS
GLOBE.SITE_LOCATION
X
11 rows - 3/26/02
GreenDown_HR1
SchoolId
SiteId
GreeningId
Year
GreeningCycle
BeginDay
EndDay
GLOBE.GREENDOWN_WS
GLOBE.SITE_LOCATION
X
30 rows - 3/26/02
Phenology_HR1
SchoolId
SiteId
BeginDay
EndDay
Lilac_HR1
GreenUp_HR1
GreenDown_HR1
Phenology_HR2
SchoolId
SiteId
VersionDate
Phenology_HR1
GLOBE.PHENOLOGY_SITE
Phenology_HR3
SchoolId
SiteId
BeginDay
EndDay
AtmosLink
Phenology_HR1
GLOBE.PHENOLOGY_SITE
Phenology_HR2
46 rows - 3/26/02
Phenology_HR4
SchoolId
SiteId
AtmosLink
BeginDay
EndDay
Phenology_HR3
GLOBE.AIR_TEMP
14 rows - 3/26/02
Phenology_HR5
SchoolId
SiteId
AtmosLink
BeginDay
EndDay
RainDays
Phenology_HR4
GLOBE.PRECIP_RAIN
Phenology_HR6
SchoolId
SiteId
AtmosLink
BeginDay
EndDay
RainDays
SnowDays
Phenology_HR5
GLOBE.PRECIP_SOLID
Phenology_HR7
SchoolId
SiteId
EndDay
Phenology_HR6
3 rows - 3/26/02
Phenology_HR8
HRnbr
SchoolId
SiteId
Phenology_HR7
16 rows - 3/26/02
EARTH_SYSTEM_6_HR1
HRnbr
SchoolId
Phenology_HR8
15 secs for 10 rows - 3/26/02
EARTH_SYSTEM_ALL_HR1
HRnbr
SchoolId
OptionType
EARTH_SYSTEM_1_HR1
EARTH_SYSTEM_2_HR1
EARTH_SYSTEM_3_HR1
EARTH_SYSTEM_4_HR1
EARTH_SYSTEM_5_HR1
EARTH_SYSTEM_6_HR1
HR_EARTHSYS_CURRENT
HRnbr INTEGER not null
SchoolId CHAR(8) not null
DixonCnt INTEGER not null
BeginMonth DATE not null
EndMonth DATE not null
EARTH_SYSTEM_ALL_HR2
HRnbr
SchoolId
DixonCnt
BeginMonth
EndMonth
EARTH_SYSTEM_ALL_HR1
3:20 to get 36 rows for 11 schools - 3/26/02
HR_EARTHSYS_PREVIOUS
HRnbr INTEGER not null
SchoolId CHAR(8) not null
DixonCnt INTEGER not null
BeginMonth DATE not null
EndMonth DATE not null

22 Diagram of Honor Roll _ Letters

Honor Roll Letters


HR_LTRSCHOOL_TEACHERS
SchoolId
TchrCnt
TeacherList
GLOBE.HR_LTRSCHOOLS
GLOBE.TEACHER_TO_SCHOOL
TS
GLOBE.GLOBE_TEACHER
GT
HR_RUNGCHG
SchoolId
TotalObs
A_Rung
B_Rung
FirstObs
LastObs
GLOBE.HR_OVERALL_CURRENT
GLOBE.HR_OVERALL_PREVIOUS
HR_RUNGONLY_LETTER
SchoolId
TotalObs
NewRung
OldRung
FirstObs
LastObs
HR_RUNGCHG
GLOBE.HR_LTRSCHOOLS
HR_LETTER_INFO_VU1
"Vu1SchoolId"
Atmos_HRcnt
Atmos_EndMonths
Clouds_HRcnt
Clouds_EndMonths
Hydro_HRcnt
Hydro_EndMonths
Climate_HRcnt
Climate_EndMonths
SoilMT_HRcnt
SoilMT_EndMonths
LcBio_HRcnt
LcBio_EndMonths
SoilChar_HRcnt
SoilChar_EndMonths
AdvAtmos_HRcnt
AdvAtmos_EndMonths
EarthSys_HRcnt
EarthSys_EndMonths
PanGlobe_HRcnt
PanGlobe_EndMonths
Takes just over 2 minutes
HR_LTRSCHOOLS
GLOBE.HR_CATEGORIES_NEW_MONTHS
Atmos
Clouds
Hydro
Climate
HR_LETTER_INFO_VU2
"Vu2SchoolId"
"SchoolName"
"AddressLine1"
"AddressLine2"
"City"
"StateProvCode"
"PostalCode"
"CountryCode"
"CountryName"
"DirectorFullName"
Executes in just a few seconds
HR_LETTER_INFO_VU3
"Vu3SchoolId"
Atmos_HRcnt
Clouds_HRcnt
Hydro_HRcnt
Climate_HRcnt
SoilMT_HRcnt
LcBio_HRcnt
SoilChar_HRcnt
AdvAtmos_HRcnt
EarthSys_HRcnt
PanGlobe_HRcnt
Takes appro 2 minutes
HR_LTRSCHOOLS
HR_CATEGORIES_YEAR_CNT
Atmos
Clouds
Hydro
Climate
SoilMT
LcBio
SoilChar
AdvAtmos
HR_LETTER_INFO_VU4
"Vu4SchoolId"
Atmos_HRcnt
Clouds_HRcnt
Hydro_HRcnt
Climate_HRcnt
SoilMT_HRcnt
LcBio_HRcnt
SoilChar_HRcnt
AdvAtmos_HRcnt
EarthSys_HRcnt
PanGlobe_HRcnt
Takes approx 2 minutes
HR_LTRSCHOOLS
HR_CATEGORIES_ALL_CNT
Atmos
Clouds
Hydro
Climate
LETTERMERGE_TEACHER_VU
"SchoolId"
"TeacherId"
"Pre"
"FirstName"
"LastName"
"Suf"
"InternalAddress"
"TeachLCcode"
"TeachLCDate"
HR_LETTER_INFO_VU2_*
HR_LETTER_INFO_VU1_*
HR_LETTER_INFO_VU3_*
HR_LETTER_INFO_VU4_*
"NewRung"
"OldRung"
"FirstObs"
"LastObs"
"TotalObs"
ROUND(MONTHS_BETWEEN(RM_End
ROUND(RM_DixonCnt/MONTHS_BETV
AllCnt
AllYearCnt
AllNewCnt
AllPrevCnt
GLOBE.HR_LTRSCHOOLS
GLOBE.TEACHER_TO_SCHOOL
GLOBE.GLOBE_TEACHER
GLOBE.HR_LETTER_INFO_VU1
GLOBE.HR_LETTER_INFO_VU2
GLOBE.HR_LETTER_INFO_VU3
GLOBE.HR_LETTER_INFO_VU4
HR_ALLCNT_SUMS
GLOBE.HR_RUNGCHG
GLOBE.DIXON_SUMMARY_CNT
LETTERMERGE_RUNGONLY_VU
"SchoolId"
"TotalObs"
"NewRung"
"OldRung"
"FirstObs"
"LastObs"
ROUND(MONTHS_BETWEEN(RL_LastO
ROUND(RL_TotalObs/MONTHS_BETWE
"AllCnt"
"AllYearCnt"
"AllNewCnt"
"AllPrevCnt"
"SchoolName"
"AddressLine1"
"AddressLine2"
"City"
"StateProvCode"
"PostalCode"
"CountryCode"
"CountryName"
"DirectorFullName"
"DirectorSalutation"
"LifeCycleCode"
"CycleChangeDate"
120 rows in 15 secs - 12/01
GLOBE.HR_RUNGONLY_LETTER
GLOBE.GLOBE_SCHOOL
HR_ALLCNT_SUMS
GLOBE.GLOBE_COUNTRY
LETTERMERGE_DIRECTOR_VU
"SchoolId"
"TchrCnt"
"TeacherList"
HR_LETTER_INFO_VU2_*
HR_LETTER_INFO_VU1_*
HR_LETTER_INFO_VU3_*
HR_LETTER_INFO_VU4_*
"NewRung"
"OldRung"
"FirstObs"
"LastObs"
"TotalObs"
ROUND(MONTHS_BETWEEN(RM_End
ROUND(RM_DixonCnt/MONTHS_BETV
AllCnt
AllYearCnt
AllNewCnt
AllPrevCnt
GLOBE.HR_LTRSCHOOL_TEACH
GLOBE.HR_LETTER_INFO_VU1
GLOBE.HR_LETTER_INFO_VU2
GLOBE.HR_LETTER_INFO_VU3
GLOBE.HR_LETTER_INFO_VU4
HR_ALLCNT_SUMS
GLOBE.HR_RUNGCHG
GLOBE.DIXON_SUMMARY_CNT

Honor Roll -- Lettermerge Tables
(revised March 29, 2002)

LETTERMERGE_DIRECTOR

SchoolId	CHAR(8)	not null
SchoolName	VARCHAR2(100)	null
AddressLine1	VARCHAR2(50)	null
AddressLine2	VARCHAR2(50)	null
City	VARCHAR2(30)	null
StateProvCode	VARCHAR2(5)	null
PostalCode	VARCHAR2(10)	null
CountryName	VARCHAR2(32)	not null
DirectorFullName	VARCHAR2(80)	null
DirectorSalutation	VARCHAR2(32)	null
LifeCycleCode	CHAR(1)	not null
CycleChangeDate	DATE	not null
TchrCnt	INTEGER	not null
TeacherList	VARCHAR2(200)	null
AtmosCntNew	INTEGER	null
AtmosCntYear	INTEGER	null
AtmosCntAll	INTEGER	null
AtmosMonthsNew	VARCHAR2(200)	null
CloudsCntNew	INTEGER	null
CloudsCntYear	INTEGER	null
CloudsCntAll	INTEGER	null
CloudsMonthsNew	VARCHAR2(200)	null
HydroCntNew	INTEGER	null
HydroCntYear	INTEGER	null
HydroCntAll	INTEGER	null
HydroMonthsNew	VARCHAR2(200)	null
ClimateCntNew	INTEGER	null
ClimateCntYear	INTEGER	null
ClimateCntAll	INTEGER	null
ClimateMonthsNew	VARCHAR2(200)	null
SoilMTCntNew	INTEGER	null
SoilMTCntYear	INTEGER	null
SoilMTCntAll	INTEGER	null
SoilMTMonthsNew	VARCHAR2(200)	null
LcBioCntNew	INTEGER	null
LcBioCntYear	INTEGER	null
LcBioCntAll	INTEGER	null
LcBioMonthsNew	VARCHAR2(200)	null
SoilCharCntNew	INTEGER	null
SoilCharCntYear	INTEGER	null
SoilCharCntAll	INTEGER	null
SoilCharMonthsNew	VARCHAR2(200)	null
AdvAtmosCntNew	INTEGER	null
AdvAtmosCntYear	INTEGER	null
AdvAtmosCntAll	INTEGER	null
AdvAtmosMonthsNew	VARCHAR2(200)	null
EarthSysCntNew	INTEGER	null
EarthSysCntYear	INTEGER	null
EarthSysCntAll	INTEGER	null
EarthSysMonthsNew	VARCHAR2(200)	null
PanGlobeCntNew	INTEGER	null
PanGlobeCntYear	INTEGER	null
PanGlobeCntAll	INTEGER	null
PanGlobeMonthsNew	VARCHAR2(200)	null
NewRung	INTEGER	null
OldRung	INTEGER	null
FirstObs	DATE	not null
LastObs	DATE	not null
TotalObs	INTEGER	not null
ObsMonths	INTEGER	not null
ObsRate	INTEGER	not null
AllCnt	INTEGER	not null
AllYearCnt	INTEGER	not null
AllNewCnt	INTEGER	not null
AllPrevCnt	INTEGER	not null

LETTERMERGE_RUNGONLY

SchoolId	CHAR(8)	not null
SchoolName	VARCHAR2(100)	null
AddressLine1	VARCHAR2(50)	null
AddressLine2	VARCHAR2(50)	null
City	VARCHAR2(30)	null
StateProvCode	VARCHAR2(5)	null
PostalCode	VARCHAR2(10)	null
CountryName	VARCHAR2(32)	not null
DirectorFullName	VARCHAR2(80)	null
DirectorSalutation	VARCHAR2(32)	null
LifeCycleCode	CHAR(1)	not null
CycleChangeDate	DATE	not null
NewRung	INTEGER	not null
OldRung	INTEGER	null
FirstObs	DATE	not null
LastObs	DATE	not null
TotalObs	INTEGER	not null
ObsMonths	INTEGER	not null
ObsRate	INTEGER	not null
AllCnt	INTEGER	not null
AllYearCnt	INTEGER	not null
AllNewCnt	INTEGER	not null
AllPrevCnt	INTEGER	not null

HR_CERTIFICATES_NEW

"SchoolId"
"SchoolName"
"CertNbr"
"HonorRoll"
"NbrNew"
"AllCertMonths"

HR_CATEGORIES_CERT_MONTHS
LETTERMERGE_DIRECTOR

The Lettermerge mailings are done 5 times per year just after the 10th day of June, August, October, December, and February. Newly achieved or revised certificates for previous years are given by the above "New" table.

The annual Certificate mailings are done once per year just after the 10th day of April. The new certificates for that year only are given by the below "April" table.

LETTERMERGE_TEACHER

TeacherId	CHAR(8)	not null
SchoolId	CHAR(8)	not null
Pre	VARCHAR2(10)	null
FirstName	VARCHAR2(32)	null
LastName	VARCHAR2(32)	not null
Suf	VARCHAR2(10)	null
InternalAddress	VARCHAR2(50)	null
TeachLCcode	CHAR(1)	not null
TeachLCDate	DATE	not null
SchoolName	VARCHAR2(100)	null
AddressLine1	VARCHAR2(50)	null
AddressLine2	VARCHAR2(50)	null
City	VARCHAR2(30)	null
StateProvCode	VARCHAR2(5)	null
PostalCode	VARCHAR2(10)	null
CountryName	VARCHAR2(32)	not null
LifeCycleCode	CHAR(1)	not null
CycleChangeDate	DATE	not null
AtmosCntNew	INTEGER	null
AtmosCntYear	INTEGER	null
AtmosCntAll	INTEGER	null
AtmosMonthsNew	VARCHAR2(200)	null
CloudsCntNew	INTEGER	null
CloudsCntYear	INTEGER	null
CloudsCntAll	INTEGER	null
CloudsMonthsNew	VARCHAR2(200)	null
HydroCntNew	INTEGER	null
HydroCntYear	INTEGER	null
HydroCntAll	INTEGER	null
HydroMonthsNew	VARCHAR2(200)	null
ClimateCntNew	INTEGER	null
ClimateCntYear	INTEGER	null
ClimateCntAll	INTEGER	null
ClimateMonthsNew	VARCHAR2(200)	null
SoilMTCntNew	INTEGER	null
SoilMTCntYear	INTEGER	null
SoilMTCntAll	INTEGER	null
SoilMTMonthsNew	VARCHAR2(200)	null
LcBioCntNew	INTEGER	null
LcBioCntYear	INTEGER	null
LcBioCntAll	INTEGER	null
LcBioMonthsNew	VARCHAR2(200)	null
SoilCharCntNew	INTEGER	null
SoilCharCntYear	INTEGER	null
SoilCharCntAll	INTEGER	null
AdvAtmosCntNew	INTEGER	null
AdvAtmosCntYear	INTEGER	null
AdvAtmosCntAll	INTEGER	null
AdvAtmosMonthsNew	VARCHAR2(200)	null
EarthSysCntNew	INTEGER	null
EarthSysCntYear	INTEGER	null
EarthSysCntAll	INTEGER	null
EarthSysMonthsNew	VARCHAR2(200)	null
PanGlobeCntNew	INTEGER	null
PanGlobeCntYear	INTEGER	null
PanGlobeCntAll	INTEGER	null
PanGlobeMonthsNew	VARCHAR2(200)	null
SoilCharMonthsNew	VARCHAR2(200)	null
NewRung	INTEGER	null
OldRung	INTEGER	null
FirstObs	DATE	not null
LastObs	DATE	not null
TotalObs	INTEGER	not null
ObsMonths	INTEGER	not null
ObsRate	INTEGER	not null
AllCnt	INTEGER	not null
AllYearCnt	INTEGER	not null
AllNewCnt	INTEGER	not null
AllPrevCnt	INTEGER	not null

HR_CERTIFICATE_TEACHERS

SchoolId
TchrCnt
TeacherList

GLOBE.HR_CERTIFICATES
GLOBE.TEACHER_TO_SCHOOL
TS
GLOBE.GLOBE_TEACHER
GT

HR_CERTIFICATE_INFO_VU1

"Vu1SchoolId"
Atmos_HRcnt
Atmos_EndMonths
Clouds_HRcnt
Clouds_EndMonths
Hydro_HRcnt
Hydro_EndMonths
Climate_HRcnt
Climate_EndMonths
SoilMT_HRcnt
SoilMT_EndMonths
LcBio_HRcnt
LcBio_EndMonths
SoilChar_HRcnt
SoilChar_EndMonths
AdvAtmos_HRcnt
AdvAtmos_EndMonths
EarthSys_HRcnt
EarthSys_EndMonths
PanGlobe_HRcnt
PanGlobe_EndMonths

HR_CERTIFICATES
GLOBE.HR_CATEGORIES_YEAR_MONTHS
Atmos
Clouds
Hydro
Climate
SoilMT
LcBio

CERTMERGE_DIRECTOR_VU

"SchoolId"
"TchrCnt"
"TeacherList"
HR_CERTIFICATE_INFO_VU2_*
HR_CERTIFICATE_INFO_VU1_*
HR_CERTIFICATE_INFO_VU3_*
"NewRung"
"OldRung"
"FirstObs"
"LastObs"
"TotalObs"
ROUND(MONTHS_BETWEEN(DS_EndDate, D
ROUND(DS_DixonCnt/MONTHS_BETWEEN(D
AllCnt
AllYearCnt
AllNewCnt
AllPrevCnt

GLOBE.HR_CERTIFICATE_TEACHERS
GLOBE.HR_CERTIFICATE_INFO_VU1
GLOBE.HR_CERTIFICATE_INFO_VU2
GLOBE.HR_CERTIFICATE_INFO_VU3
HR_ALLCNT_SUMS
GLOBE.HR_RUNGCHG
GLOBE.DIXON_SUMMARY_CNT

HR_CERTIFICATE_INFO_VU2

"Vu2SchoolId"
"SchoolName"
"AddressLine1"
"AddressLine2"
"City"
"StateProvCode"
"PostalCode"
"CountryCode"
"CountryName"
"DirectorFullName"
"DirectorSalutation"
"LifeCycleCode"
"CycleChangeDate"

HR_CERTIFICATES
GLOBE.GLOBE_SCHOOL
GLOBE.GLOBE_COUNTRY

CERTMERGE_TEACHER_VU

"SchoolId"
"TeacherId"
"Pre"
"FirstName"
"LastName"
"Suf"
"InternalAddress"
"TeachLCcode"
"TeachLCDate"
HR_CERTIFICATE_INFO_VU2_*
HR_CERTIFICATE_INFO_VU1_*
HR_CERTIFICATE_INFO_VU3_*
"NewRung"
"OldRung"
"FirstObs"
"LastObs"
"TotalObs"
ROUND(MONTHS_BETWEEN(DS_E
ROUND(DS_DixonCnt/MONTHS_BE
AllCnt
AllYearCnt
AllNewCnt
AllPrevCnt

GLOBE.HR_CERTIFICATES
GLOBE.TEACHER_TO_SCHOO
GLOBE.GLOBE_TEACHER
GLOBE.HR_CERTIFICATE_INFO
GLOBE.HR_CERTIFICATE_INFO
GLOBE.HR_CERTIFICATE_INFO
HR_ALLCNT_SUMS
GLOBE.HR_RUNGCHG
GLOBE.DIXON_SUMMARY_CNT

HR_RUNGONLY_CERTIFICATE

SchoolId
TotalObs
NewRung
OldRung
FirstObs
LastObs

HR_RUNGCHG
GLOBE.HR_CERTIFICATES

HR_CERTIFICATE_INFO_VU3

"Vu3SchoolId"
Atmos_HRcnt
Atmos_EndMonths
Clouds_HRcnt
Clouds_EndMonths
Hydro_HRcnt
Hydro_EndMonths
Climate_HRcnt
Climate_EndMonths
SoilMT_HRcnt
SoilMT_EndMonths
LcBio_HRcnt
LcBio_EndMonths
SoilChar_HRcnt
SoilChar_EndMonths
AdvAtmos_HRcnt
AdvAtmos_EndMonths
EarthSys_HRcnt
EarthSys_EndMonths
PanGlobe_HRcnt
PanGlobe_EndMonths

HR_CERTIFICATES
GLOBE.HR_CATEGORIES_PREV_
Atmos
Clouds
Hydro

CERTMERGE_RUNGONLY_VU

"SchoolId"
"TotalObs"
"NewRung"
"OldRung"
"FirstObs"
"LastObs"
ROUND(MONTHS_BETWEEN(RC_La
ROUND(RC_TotalObs/MONTHS_BET
"AllCnt"
"AllYearCnt"
"AllNewCnt"
"AllPrevCnt"
"SchoolName"
"AddressLine1"
"AddressLine2"
"City"
"StateProvCode"
"PostalCode"
"CountryCode"
"CountryName"
"DirectorFullName"
"DirectorSalutation"
"LifeCycleCode"
"CycleChangeDate"

GLOBE.HR_RUNGONLY_CERTI
GLOBE.GLOBE_SCHOOL
GLOBE.GLOBE_COUNTRY
HR_ALLCNT_SUMS

CEF

SchoolId
SchoolName
AddressLine1
AddressLine2
City
StateProvCode
PostalCode
CountryName
DirectorFullNam
DirectorSalutatio
LifeCycleCode
CycleChangeDate
TchrCnt
TeacherList
AtmosCntYear
AtmosMonthsYe
AtmosCntPrev
AtmosMonthsPr
CloudsCntYear
CloudsMonthsY
CloudsCntPrev
CloudsMonthsPr
HydroCntYear
HydroMonthsYe
HydroCntPrev
HydroMonthsPre
ClimateCntYear
ClimateMonthsY
ClimateCntPrev
ClimateMonthsP
SoilMTCntYear
SoilMTMonthsY
SoilMTCntPrev
SoilMTMonthsP
LcBioCntYear
LcBioMonthsYe
LcBioCntPrev
LcBioMonthsPre
SoilCharCntYear
SoilCharMonths
SoilCharCntPrev
SoilCharMonthsI
AdvAtmosCntYe
AdvAtmosMonth
AdvAtmosCntPr
AdvAtmosMonth
EarthSysCntYear
EarthSysMonths
EarthSysCntPrev
EarthSysMonthsI
PanGlobeCntYea
PanGlobeMonths
PanGlobeCntPrev
PanGlobeMonths
NewRung
OldRung
FirstObs
LastObs
TotalObs
ObsMonths
ObsRate
AllCnt
AllYearCnt
AllNewCnt
AllPrevCnt

Honor Roll -- Certmerge Tables

(revised March 29, 2002)

RTMERGE_DIRECTOR

	CHAR(8)	not null
	VARCHAR2(100)	null
	VARCHAR2(50)	null
	VARCHAR2(50)	null
	VARCHAR2(30)	null
	VARCHAR2(5)	null
	VARCHAR2(10)	null
	VARCHAR2(32)	not null
e	VARCHAR2(80)	null
n	VARCHAR2(32)	null
	CHAR(1)	not null
e	DATE	not null
	INTEGER	not null
	VARCHAR2(200)	null
	INTEGER	null
ear	VARCHAR2(200)	null
	INTEGER	null
ev	VARCHAR2(200)	null
	INTEGER	null
ear	VARCHAR2(200)	null
	INTEGER	null
rev	VARCHAR2(200)	null
	INTEGER	null
ar	VARCHAR2(200)	null
	INTEGER	null
ev	VARCHAR2(200)	null
	INTEGER	null
Year	VARCHAR2(200)	null
	INTEGER	null
rev	VARCHAR2(200)	null
	INTEGER	null
Year	VARCHAR2(200)	null
	INTEGER	null
rev	VARCHAR2(200)	null
	INTEGER	null
ar	VARCHAR2(200)	null
	INTEGER	null
ev	VARCHAR2(200)	null
r	INTEGER	null
Year	VARCHAR2(200)	null
	INTEGER	null
Prev	VARCHAR2(200)	null
ear	INTEGER	null
hsYear	VARCHAR2(200)	null
ev	INTEGER	null
hsPrev	VARCHAR2(200)	null
r	INTEGER	null
Year	VARCHAR2(200)	null
	INTEGER	null
Prev	VARCHAR2(200)	null
ar	INTEGER	null
sYear	VARCHAR2(200)	null
v	INTEGER	null
sPrev	VARCHAR2(200)	null
	INTEGER	null
	INTEGER	null
	DATE	not null
	DATE	not null
	INTEGER	not null
	INTEGER	not null
	INTEGER	not null
	INTEGER	not null
	INTEGER	not null
	INTEGER	not null
	INTEGER	not null

CERTMERGE_RUNGONLY

SchoolId	CHAR(8)	not null
SchoolName	VARCHAR2(100)	null
AddressLine1	VARCHAR2(50)	null
AddressLine2	VARCHAR2(50)	null
City	VARCHAR2(30)	null
StateProvCode	VARCHAR2(5)	null
PostalCode	VARCHAR2(10)	null
CountryName	VARCHAR2(32)	not null
DirectorFullName	VARCHAR2(80)	null
DirectorSalutation	VARCHAR2(32)	null
LifeCycleCode	CHAR(1)	not null
CycleChangeDate	DATE	not null
NewRung	INTEGER	not null
OldRung	INTEGER	null
FirstObs	DATE	not null
LastObs	DATE	not null
TotalObs	INTEGER	not null
ObsMonths	INTEGER	not null
ObsRate	INTEGER	not null
AllCnt	INTEGER	not null
AllYearCnt	INTEGER	not null
AllNewCnt	INTEGER	not null
AllPrevCnt	INTEGER	not null

The three Certmerge tables identify schools that should receive Honor Roll letters in the April mailing each year. This mailing is usually done just after the 10th day of the month.

The two views listed below identify the text for certificates to be included in the Honor Roll letters. The "April" view identifies all certificates for the past year and the "Prev" view identifies all new or revised certificates for previous years.

HR_CERTIFICATES_APRIL

"SchoolId"
"SchoolName"
"CertNbr"
"HonorRoll"
"NbrNew"
"AllCertMonths"

GLOBE.GLOBE_SCHOOL
GLOBE.HR_CATEGORIES_ALL
GLOBE.HR_CATEGORIES_DISTINC
X

HR_CERTIFICATES_PREV

"SchoolId"
"SchoolName"
"CertNbr"
"HonorRoll"
"NbrNew"
"AllCertMonths"

HR_CATEGORIES_CERT_MONTHS
CERTMERGE_DIRECTOR

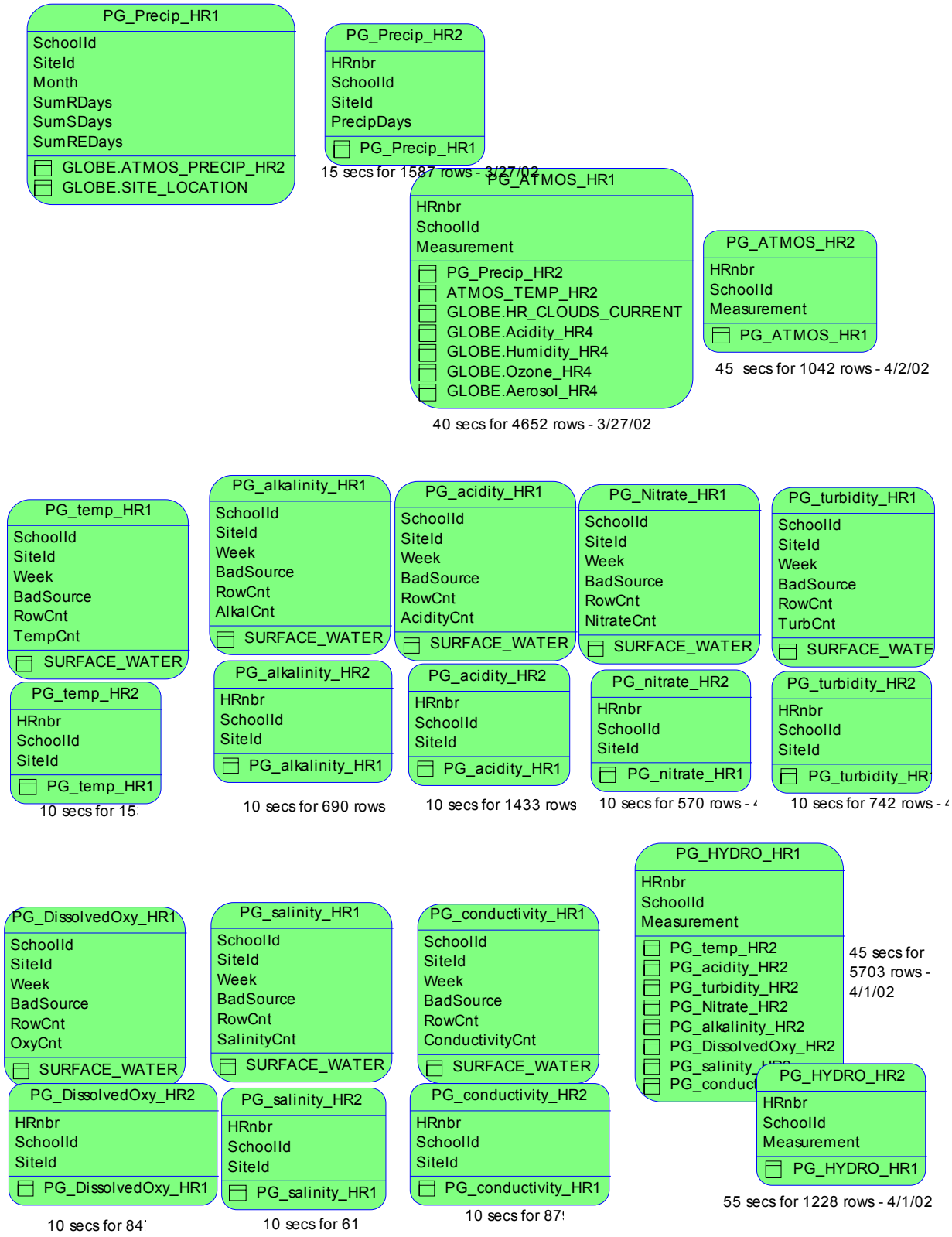
CERTMERGE_TEACHER

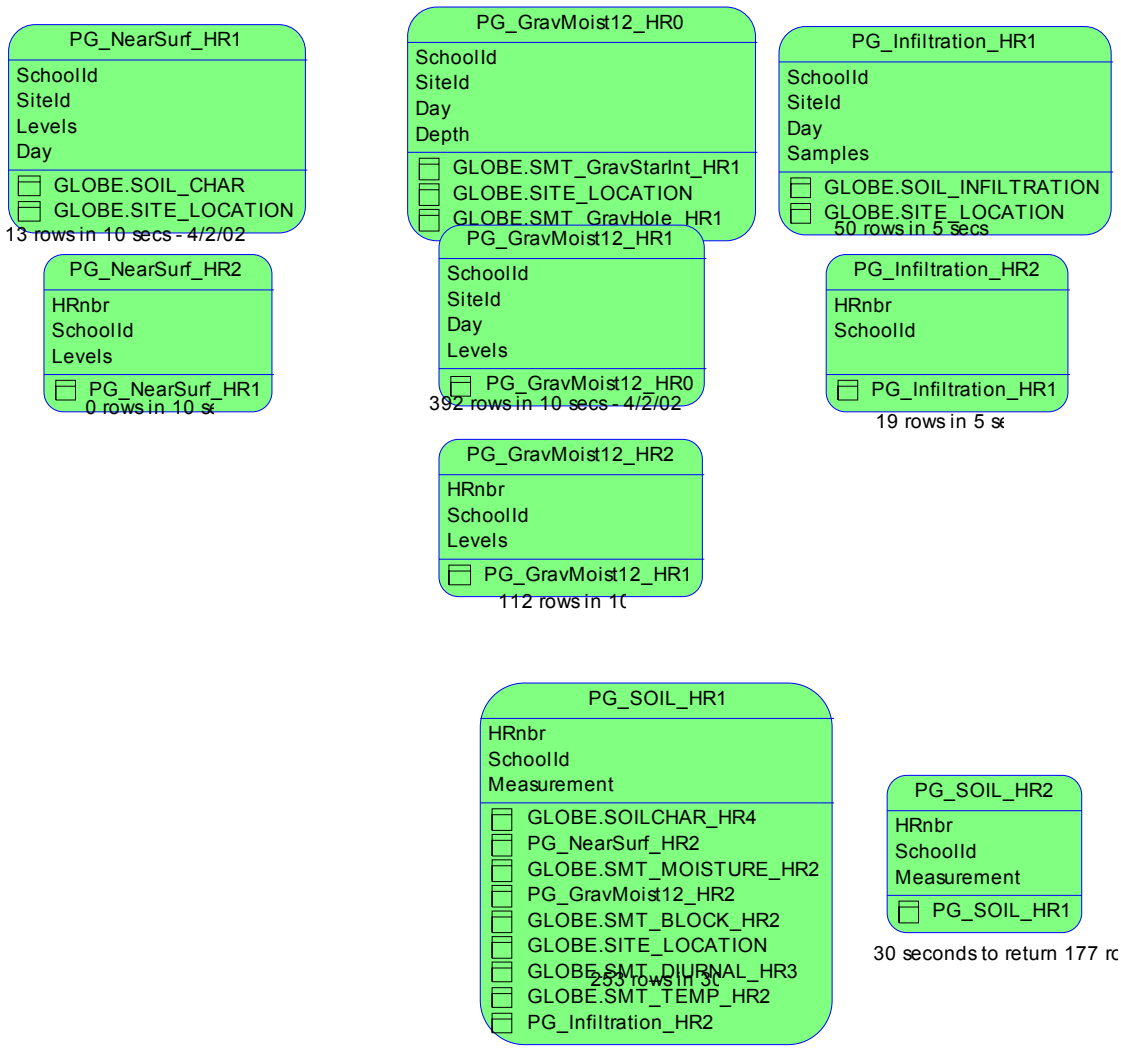
TeacherId	CHAR(8)	not null
SchoolId	CHAR(8)	not null
Pre	VARCHAR2(10)	null
FirstNames	VARCHAR2(32)	null
LastName	VARCHAR2(32)	not null
Suf	VARCHAR2(10)	null
InternalAddress	VARCHAR2(50)	null
TeachLCcode	CHAR(1)	not null
TeachLCDate	DATE	not null
SchoolName	VARCHAR2(100)	null
AddressLine1	VARCHAR2(50)	null
AddressLine2	VARCHAR2(50)	null
City	VARCHAR2(30)	null
StateProvCode	VARCHAR2(5)	null
PostalCode	VARCHAR2(10)	null
CountryName	VARCHAR2(32)	not null
LifeCycleCode	CHAR(1)	not null
CycleChangeDate	DATE	not null
AtmosCntYear	INTEGER	null
AtmosMonthsYear	VARCHAR2(200)	null
AtmosCntPrev	INTEGER	null
AtmosMonthsPrev	VARCHAR2(200)	null
CloudsCntYear	INTEGER	null
CloudsMonthsYear	VARCHAR2(200)	null
CloudsCntPrev	INTEGER	null
CloudsMonthsPrev	VARCHAR2(200)	null
HydroCntYear	INTEGER	null
HydroMonthsYear	VARCHAR2(200)	null
HydroCntPrev	INTEGER	null
HydroMonthsPrev	VARCHAR2(200)	null
ClimateCntYear	INTEGER	null
ClimateMonthsYear	VARCHAR2(200)	null
ClimateCntPrev	INTEGER	null
ClimateMonthsPrev	VARCHAR2(200)	null
SoilMTCntYear	INTEGER	null
SoilMTMonthsYear	VARCHAR2(200)	null
SoilMTCntPrev	INTEGER	null
SoilMTMonthsPrev	VARCHAR2(200)	null
LcBioCntYear	INTEGER	null
LcBioMonthsYear	VARCHAR2(200)	null
LcBioCntPrev	INTEGER	null
LcBioMonthsPrev	VARCHAR2(200)	null
SoilCharCntYear	INTEGER	null
SoilCharMonthsYear	VARCHAR2(200)	null
SoilCharCntPrev	INTEGER	null
SoilCharMonthsPrev	VARCHAR2(200)	null
AdvAtmosCntYear	INTEGER	null
AdvAtmosMonthsYear	VARCHAR2(200)	null
AdvAtmosCntPrev	INTEGER	null
AdvAtmosMonthsPrev	VARCHAR2(200)	null
EarthSysCntYear	INTEGER	null
EarthSysMonthsYear	VARCHAR2(200)	null
EarthSysCntPrev	INTEGER	null
EarthSysMonthsPrev	VARCHAR2(200)	null
PanGlobeCntYear	INTEGER	null
PanGlobeMonthsYear	VARCHAR2(200)	null
PanGlobeCntPrev	INTEGER	null
PanGlobeMonthsPrev	VARCHAR2(200)	null
NewRung	INTEGER	null
OldRung	INTEGER	null
FirstObs	DATE	not null
LastObs	DATE	not null
TotalObs	INTEGER	not null
ObsMonths	INTEGER	not null
ObsRate	INTEGER	not null
AllCnt	INTEGER	not null
AllYearCnt	INTEGER	not null
AllNewCnt	INTEGER	not null
AllPrevCnt	INTEGER	not null

23 Diagram of Honor Roll _ Pan GLOBE

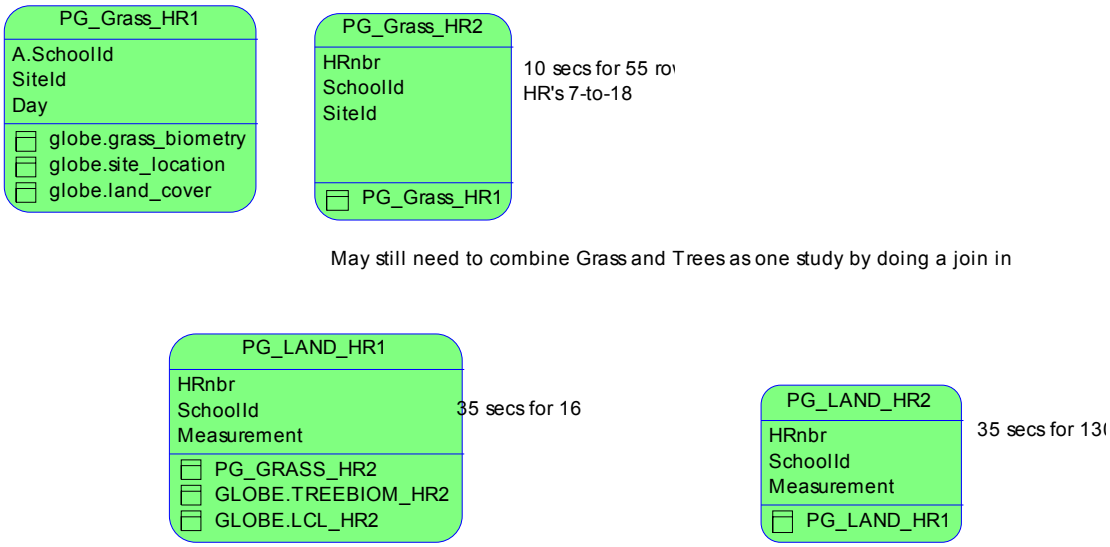
Honor Roll - Pan GLOBE

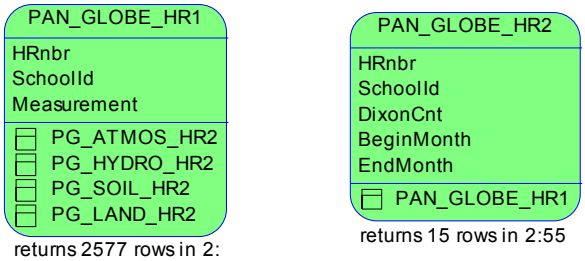
Under development





Spill over from preceding page





HR_PANGLOBE_CURRENT

HRnbr	INTEGER	not null
SchoolId	CHAR(8)	not null
DixonCnt	INTEGER	not null
BeginMonth	DATE	not null
EndMonth	DATE	not null

HR_PANGLOBE_PREVIOUS

HRnbr	INTEGER	not null
SchoolId	CHAR(8)	not null
DixonCnt	INTEGER	not null
BeginMonth	DATE	not null
EndMonth	DATE	not null

24 Diagram of Hummingbird

Hummingbird Protocol
final 2/26/02

For hummingbird protocol
HBgenus = Archilochus
HBspecies = colubris
CommonName = Ruby-throated
SiteCode = 'HUM' (Hummingbird)
MeasureCode = 'HB' (Hummingbird)
(Other species may be added later - 388 species)

HUMMINGBIRD_SITE

SchoolId	CHAR(8)	not null
SiteId	CHAR(6)	not null
VersionDate	DATE	not null
AtmosLink	CHAR(6)	null
MoistLink	CHAR(6)	null
HasFlowerbed	CHAR(1)	null
HasFeeder	CHAR(1)	null
HasNest	CHAR(1)	null
NestFoundDate	DATE	null
Comments	VARCHAR2(200)	null
UTtimestamp	DATE	not null
DBmasterSite	CHAR(1)	not null

SITE_LOCATION

SchoolId	CHAR(8)	not nu
SiteId	CHAR(6)	not nu
Latitude	NUMBER(6,4)	not nu
Longitude	NUMBER(7,4)	not nu
Elevation	NUMBER(5,1)	not nu
SubmitElev	NUMBER(5,1)	not nu
DataSource	NUMBER(1)	not nu
UTtimestamp	DATE	not nu
DBmasterSite	CHAR(1)	not nu

STUDY_SITE

SchoolId	CHAR(8)	not null
SiteId	CHAR(6)	not null
SiteName	VARCHAR2(80)	not null
SiteCode	CHAR(3)	not null
DateActivated	DATE	not null
DateDeactivated	DATE	null
Comments	VARCHAR2(200)	null
UTtimestamp	DATE	not null
DBmasterSite	CHAR(1)	not null

SchoolId = SchoolId
SiteId = SiteId

SchoolId = SchoolId
SiteId = SiteId

SchoolId = SchoolId
SiteId = SiteId

SchoolId = SchoolId
SiteId = SiteId

SchoolId = SchoolId
SiteId = SiteId

FLOWERSPECIES_COUNTS

SchoolId	CHAR(8)	not null
SiteId	CHAR(6)	not null
SolarDay	DATE	not null
ProtocolType	CHAR(2)	not null
ObsNbr	Number(2)	not null
FlowerId	Number(2)	not null
StartTimeUT	DATE	not null
StopTimeUT	DATE	not null
HBgenus4	CHAR(4)	not null
HBspecies4	CHAR(4)	not null
AdultMaleCnt	Number(3)	null
AdultFemaleCnt	Number(3)	null
NoSexThroatCnt	Number(3)	null
NoSexYoungCnt	Number(3)	null
YoungMaleCnt	Number(3)	null
UnusualCnt	Number(3)	null
Comments	VARCHAR2(200)	null
UTtimeReported	DATE	not null
DBmasterSite	CHAR(1)	not null

HUMMINGBIRD_COUNTS

SchoolId	CHAR(8)	not null
SiteId	CHAR(6)	not null
SolarDay	DATE	not null
ProtocolType	CHAR(2)	not null
ObsNbr	Number(2)	not null
StartTimeUT	DATE	not null
StopTimeUT	DATE	not null
HBgenus4	CHAR(4)	not null
HBspecies4	CHAR(4)	not null
AdultMaleCnt	Number(3)	null
AdultFemaleCnt	Number(3)	null
NoSexThroatCnt	Number(3)	null
NoSexYoungCnt	Number(3)	null
YoungMaleCnt	Number(3)	null
UnusualCnt	Number(3)	null
Comments	VARCHAR2(200)	null
UTtimeReported	DATE	not null
DBmasterSite	CHAR(1)	not null

NESTING_REPORT

SchoolId	CHAR(8)	not
SiteId	CHAR(6)	not
Year	CHAR(4)	not
EggOccurrence	Number(1)	not
HBgenus4	CHAR(4)	not
HBspecies4	CHAR(4)	not
NestStartDate	DATE	null
NestCompleteDate	DATE	null
FirstEggLayDate	DATE	null
SecondEggLayDate	DATE	null
IncubationStartDate	DATE	null
FirstEggHatchDate	DATE	null
SecondEggHatchDate	DATE	null
FirstFledglingDate	DATE	null
SecondFledglingDate	DATE	null
LastFemaleDate	DATE	null
Comments	VARCHAR2(200)	null
UTtimeReported	DATE	not
DBmasterSite	CHAR(1)	not

SchoolId = SchoolId
FlowerId = FlowerId

Genus4 = HBgenus4
Species4 = HBspecies4

Genus4 = HBgenus4
Species4 = HBspecies4

Genus4 = HBgenus4
Species4 = HBspecies4

SchoolId = SchoolId
SiteId = SiteId
Year = Year
EggOccurrence = EggOccurre

HUMMINGBIRD_SPECIES

Genus4	CHAR(4)	not null
Species4	CHAR(4)	not null
GenusName	VARCHAR2(32)	not null
SpeciesName	VARCHAR2(32)	not null
CommonName	VARCHAR2(80)	not null
Description	VARCHAR2(200)	null
UTtimeReported	DATE	not null
DBmasterSite	CHAR(1)	not null

FLOWERLIST_BYSCHOOL

SchoolId	CHAR(8)	not null
FlowerId	Number(2)	not null
CommonName	VARCHAR2(32)	not null
Genus	VARCHAR2(32)	null
Species	VARCHAR2(32)	null
DateBegin	DATE	not null
DateEnd	DATE	null
Description	VARCHAR2(200)	null
UTtimeReported	DATE	not null
DBmasterSite	CHAR(1)	not null

MALE_BEHAVIOR

SchoolId	CHAR(8)	not n
SiteId	CHAR(6)	not n
Year	CHAR(4)	not n
EggOccurrence	Number(2)	not n
SolarDay	DATE	not n
Comments	VARCHAR2(200)	null
UTtimeReported	DATE	not n
DBmasterSite	CHAR(1)	not n

ProtocolType values
SG -- Sighting Protocol
FD -- Feeder Visit Protocol
FL -- Flower Visit Protocol
CD -- Combined: Feeder counts
CL -- Combined: Flower counts
FS -- Flower Species Visit Protocol

HUMMINGBIRD_SITE_VU1

SchoolId
SiteId
Month
MeasureCode
RowCnt
ALnkCnt
MLnkCnt
HFbCnt
HFdCnt
HNstCnt
NFDtCnt
BegDate
EndDate
BegRDate
EndRDate
LagTimeAvg

HUMMINGBIRD_SITE

HUMMINGBIRD_SITE_VU2

HUMMINGBIRD_SITE_VU1.*
dixoncnt

HUMMINGBIRD_SITE_VU1

HUMMINGBIRD_SITE_CNT

SchoolId	<Undefined>	not null
SiteId	<Undefined>	not null
Month	<Undefined>	not null
RowCnt	<Undefined>	not null
DixonCnt	<Undefined>	not null

We will need to define "_VU1" and "_VU2" views, and an "_CNT" snapshot, for each of the base tables on the previous page

HUMMINGBIRD_COUNTS_VU1

SchoolId
SiteId
Month
MeasureCode
RowCnt
HAMCnt
HAFCnt
HNTCnt
HNYCnt
HYMCnt
HUnCnt
BegDate
EndDate
BegRDate
EndRDate
LagTimeAvg

HUMMINGBIRD_COUNTS

HUMMINGBIRD_COUNTS_VU2

HUMMINGBIRD_COUNTS_VU1.*
dixoncnt

HUMMINGBIRD_COUNTS_VU1

HUMMINGBIRD_COUNTS_CNT

SchoolId	<Undefined>	not null
SiteId	<Undefined>	not null
Month	<Undefined>	not null
RowCnt	<Undefined>	not null
DixonCnt	<Undefined>	not null

FLOWERSPECIES_COUNTS_VU1

SchoolId
SiteId
Month
MeasureCode
RowCnt
FAMCnt
FAFCnt
FNTCnt
FNYCnt
FYMCnt
FUnCnt
BegDate
EndDate
BegRDate
EndRDate
LagTimeAvg

FLOWERSPECIES_COUNTS

FLOWERSPECIES_COUNTS_VU2

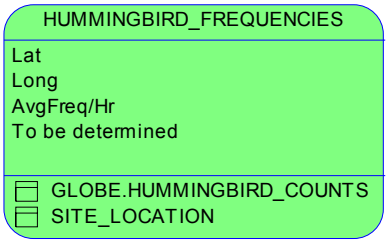
FLOWERSPECIES_COUNTS_VU1.*
dixoncnt

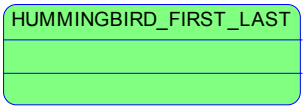
FLOWERSPECIES_COUNTS_VU1

FLOWERSPECIES_COUNTS_CNT

SchoolId	<Undefined>	not null
SiteId	<Undefined>	not null
Month	<Undefined>	not null
RowCnt	<Undefined>	not null
DixonCnt	<Undefined>	not null

These view definitions have not yet been done – 2/26/2002
The intent is to find frequencies and first/last visits by geographic regions based on Latitude and Longitude

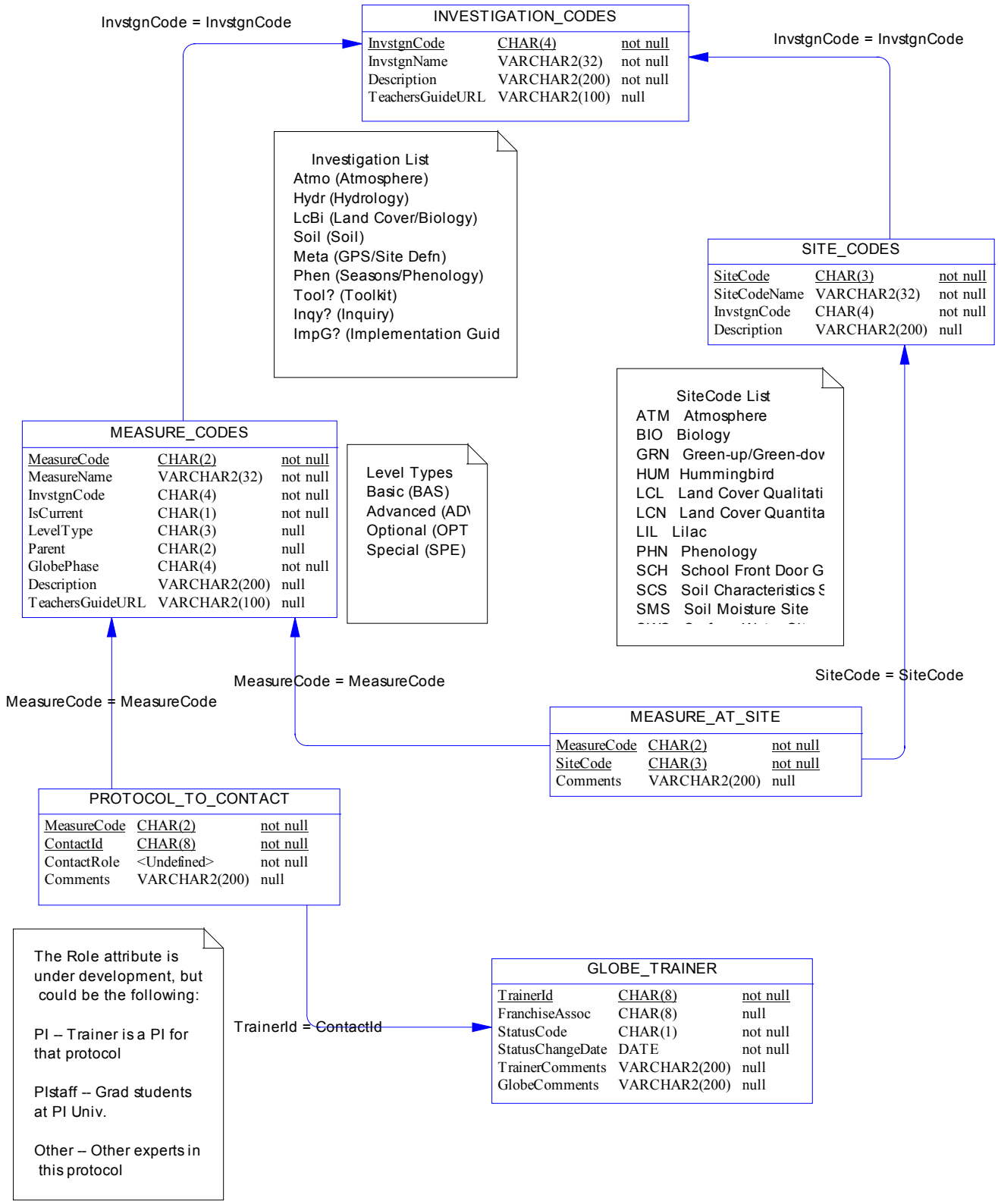




25 Diagram of Investigations

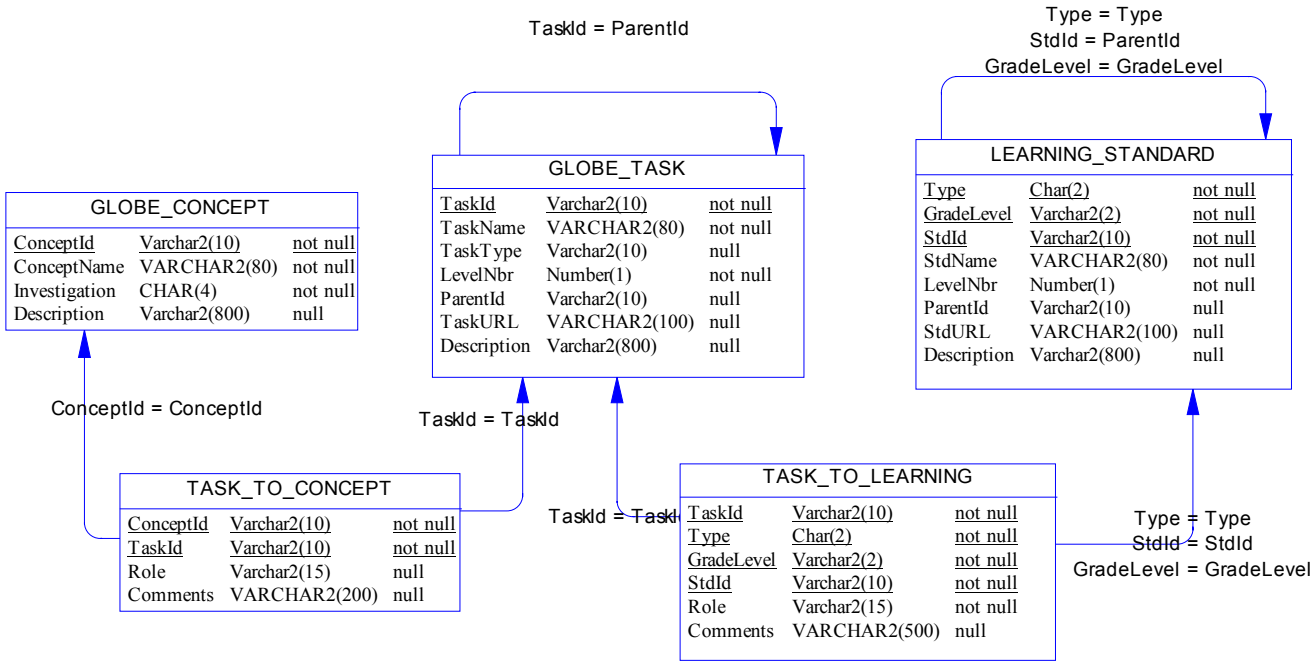
Investigations

Draft - Jan 22, 2002



26 Diagram of Learning Standards

Mapping GLOBE Tasks to Learning Standards
draft Summer 2001



Task Level

By convention, we could agree that all GLOBE Investigations are described as Level 0 tasks, that all GLOBE Protocols are Level 1 tasks under an Investigation, that the major Learning Activities are Level 1 tasks under an Investigation, and that all other tasks are directly part of a Protocol, or Learning Activity, or part of another parent task.

Usage

The Type attribute in Learning_Standard identifies either "US" for national standards or is a 2-character code for state standards. The StdId attribute identifies a specific standard, e.g. Type='US' and StdId='NSES' identifies the root level (i.e. LevelNbr=0) of the National Science Education Standards.

If the ParentId attribute is Null, then the standard is the root node of a learning standards hierarchy.

The Level attribute is derived from the level in the hierarchy of tasks or standards. If a specific standard is at level n then its parent must be at level n-1.

Role Categories
Full -- The task fully satisfies the standard.
Partial -- The task satisfies a portion of the standard.
Exact -- The task matches the standard exactly.
Related -- The task is peripherally related to the standard.

Rule 1: If a task fully satisfies a standard, then the task fully satisfies every child of that standard.

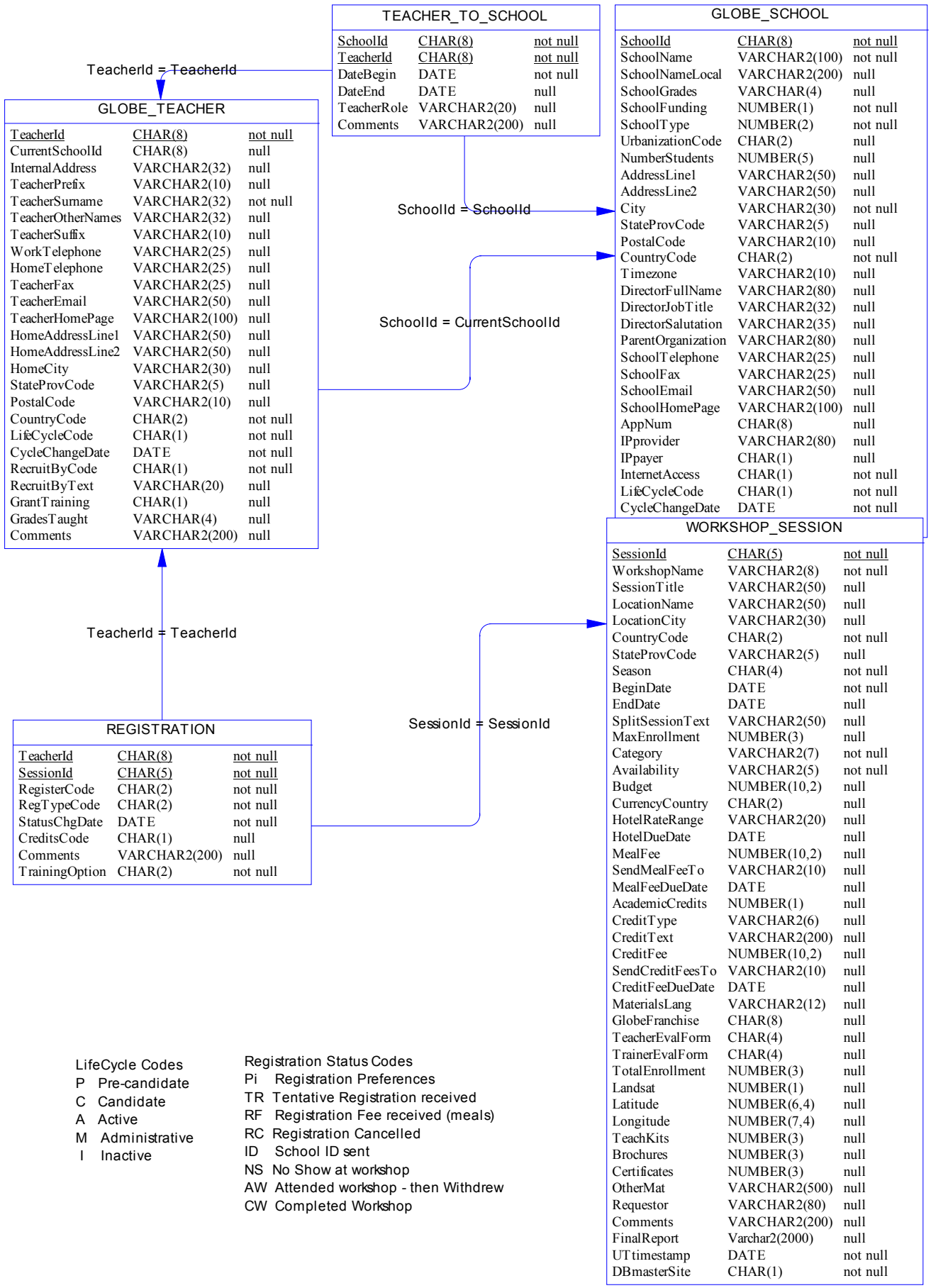
Rule 2: If a task partially satisfies a standard, then the task partially satisfies the parent of that standard.

Rule 3: If a task matches a standard exactly, then the task matches the parent of that standard partially and matches every child of that standard fully.

Rule 4: If a task is related to a standard, then the task is related to the parent of that standard.

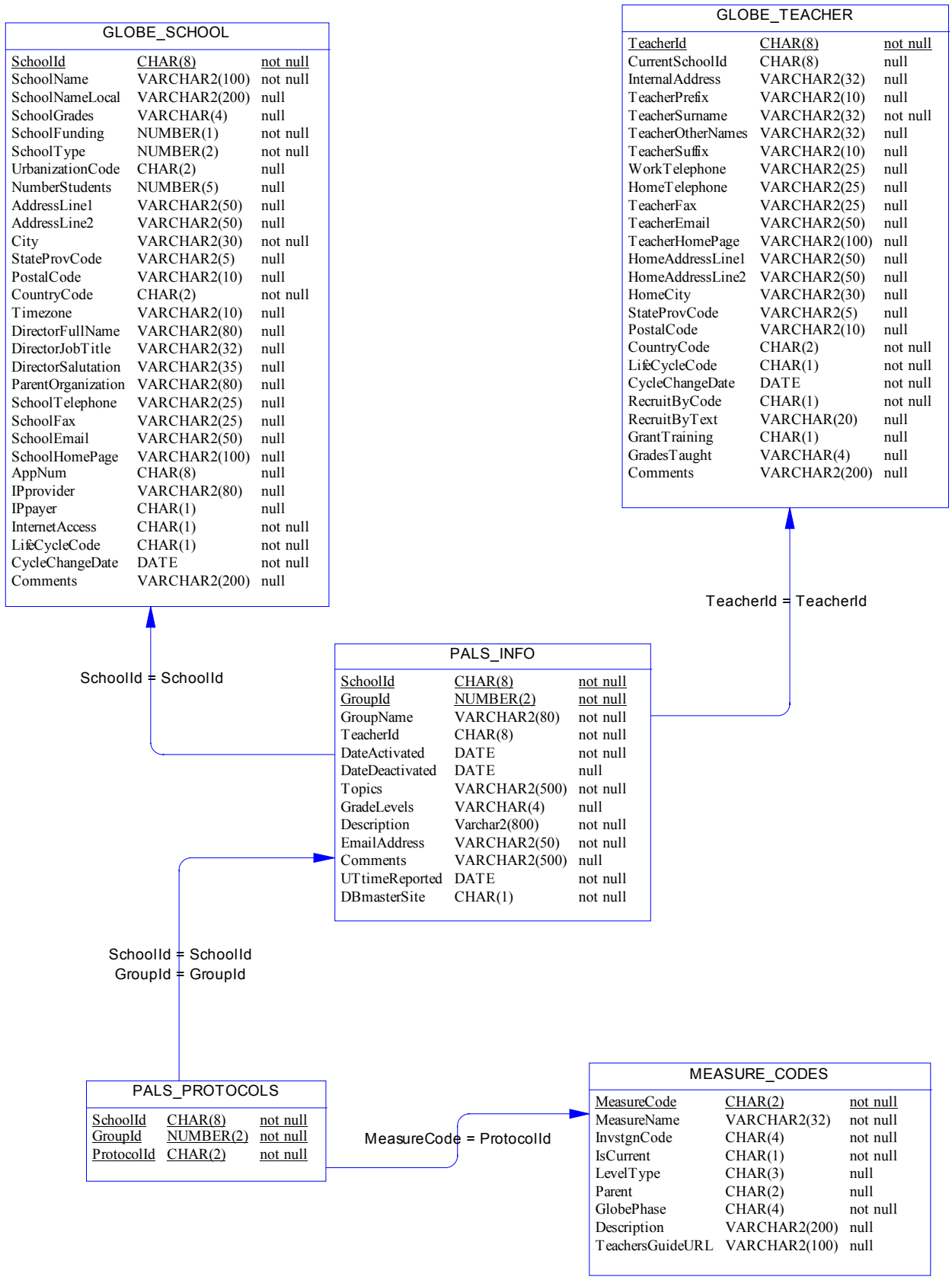
NOTE: Initial development as of October 2001 does NOT include hierarchies of tasks or standards. Thus no need for TaskLevel attributes or Role attributes or the Rules identified above.

27 Diagram of LifeCycleRegistration Codes


TEACHER_TO_SCHOOL
SchoolId CHAR(8) not null
TeacherId CHAR(8) not null
DateBegin DATE not null
DateEnd DATE null
TeacherRole VARCHAR2(20) null
Comments VARCHAR2(200) null
GLOBE_SCHOOL
SchoolId CHAR(8) not null
SchoolName VARCHAR2(100) not null
SchoolNameLocal VARCHAR2(200) null
SchoolGrades VARCHAR(4) null
SchoolFunding NUMBER(1) not null
SchoolType NUMBER(2) not null
UrbanizationCode CHAR(2) null
NumberStudents NUMBER(5) null
AddressLine1 VARCHAR2(50) null
AddressLine2 VARCHAR2(50) null
City VARCHAR2(30) not null
StateProvCode VARCHAR2(5) null
PostalCode VARCHAR2(10) null
CountryCode CHAR(2) not null
Timezone VARCHAR2(10) null
DirectorFullName VARCHAR2(80) null
DirectorJobTitle VARCHAR2(32) null
DirectorSalutation VARCHAR2(35) null
ParentOrganization VARCHAR2(80) null
SchoolTelephone VARCHAR2(25) null
SchoolFax VARCHAR2(25) null
SchoolEmail VARCHAR2(50) null
SchoolHomePage VARCHAR2(100) null
AppNum CHAR(8) null
IPprovider VARCHAR2(80) null
IPpayer CHAR(1) null
InternetAccess CHAR(1) not null
LifeCycleCode CHAR(1) not null
CycleChangeDate DATE not null
TeacherId = TeacherId
SchoolId = SchoolId
SchoolId = CurrentSchoolId
GLOBE_TEACHER
TeacherId CHAR(8) not null
CurrentSchoolId CHAR(8) null
InternalAddress VARCHAR2(32) null
TeacherPrefix VARCHAR2(10) null
TeacherSurname VARCHAR2(32) not null
TeacherOtherNames VARCHAR2(32) null
TeacherSuffix VARCHAR2(10) null
WorkTelephone VARCHAR2(25) null
HomeTelephone VARCHAR2(25) null
TeacherFax VARCHAR2(25) null
TeacherEmail VARCHAR2(50) null
TeacherHomePage VARCHAR2(100) null
HomeAddressLine1 VARCHAR2(50) null
HomeAddressLine2 VARCHAR2(50) null
HomeCity VARCHAR2(30) null
StateProvCode VARCHAR2(5) null
PostalCode VARCHAR2(10) null
CountryCode CHAR(2) not null
LifeCycleCode CHAR(1) not null
CycleChangeDate DATE not null
RecruitByCode CHAR(1) not null
RecruitByText VARCHAR(20) null
GrantTraining CHAR(1) null
GradesTaught VARCHAR(4) null
Comments VARCHAR2(200) null
WORKSHOP_SESSION
SessionId CHAR(5) not null
WorkshopName VARCHAR2(8) not null
SessionTitle VARCHAR2(50) null
LocationName VARCHAR2(50) null
LocationCity VARCHAR2(30) null
CountryCode CHAR(2) not null
StateProvCode VARCHAR2(5) null
Season CHAR(4) not null
BeginDate DATE not null
EndDate DATE null
SplitSessionText VARCHAR2(50) null
MaxEnrollment NUMBER(3) null
Category VARCHAR2(7) not null
Availability VARCHAR2(5) not null
Budget NUMBER(10,2) null
CurrencyCountry CHAR(2) null
HotelRateRange VARCHAR2(20) null
HotelDueDate DATE null
MealFee NUMBER(10,2) null
SendMealFeeTo VARCHAR2(10) null
MealFeeDueDate DATE null
AcademicCredits NUMBER(1) null
CreditType VARCHAR2(6) null
CreditText VARCHAR2(200) null
CreditFee NUMBER(10,2) null
SendCreditFeesTo VARCHAR2(10) null
CreditFeeDueDate DATE null
MaterialsLang VARCHAR2(12) null
GlobeFranchise CHAR(8) null
TeacherEvalForm CHAR(4) null
TrainerEvalForm CHAR(4) null
TotalEnrollment NUMBER(3) null
Landsat NUMBER(1) null
Latitude NUMBER(6,4) null
Longitude NUMBER(7,4) null
TeachKits NUMBER(3) null
Brochures NUMBER(3) null
Certificates NUMBER(3) null
OtherMat VARCHAR2(500) null
Requestor VARCHAR2(80) null
Comments VARCHAR2(200) null
FinalReport Varchar2(2000) null
UTtimestamp DATE not null
DBmasterSite CHAR(1) not null
TeacherId = TeacherId
SessionId = SessionId
REGISTRATION
TeacherId CHAR(8) not null
SessionId CHAR(5) not null
RegisterCode CHAR(2) not null
RegTypeCode CHAR(2) not null
StatusChgDate DATE not null
CreditsCode CHAR(1) null
Comments VARCHAR2(200) null
TrainingOption CHAR(2) not null
LifeCycle Codes
P Pre-candidate
C Candidate
A Active
M Administrative
I Inactive
Registration Status Codes
Pi Registration Preferences
TR Tentative Registration received
RF Registration Fee received (meals)
RC Registration Cancelled
ID School ID sent
NS No Show at workshop
AW Attended workshop - then Withdrew
CW Completed Workshop

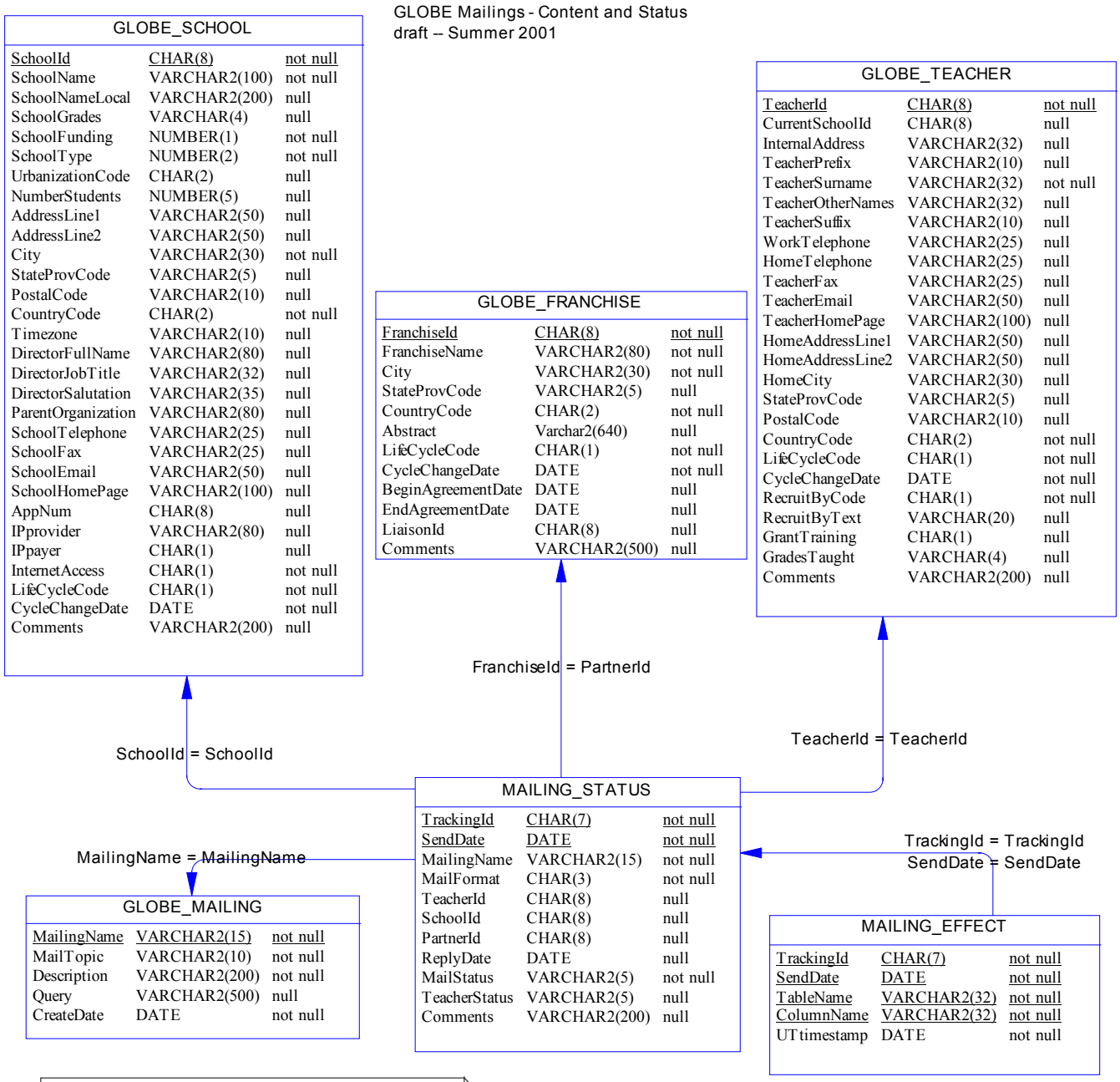
28 Diagram of Mail Pals

GLOBE Mail Pals



29 Diagram of Mailing Status

GLOBE Mailings - Content and Status
draft -- Summer 2001



MailTopic Codes --- TBD by RCG
TchrUpd Annual Teacher Update Mailing
Equip Equipment Mailing

MailFormat Codes
LTR Letter or Package
CBL Cable
EML E-mail

TeacherStatus Codes
SAS Still at School
RET Retired - No Longer Teaching
MOV Moved to New School
UNK Left This School - Unknown Status
END GLOBE Participation Ended
DUP Removed Duplicate Teacher

MailStatus Codes
Sent Sent - No known effect
Return Returned by Shipper - Undeliverable
Action ResponseReceived - ActionTaken
OK ResponseReceived - No Followup Required

30 Diagram of Misc Code Tables

DATA_ENTRY_OPTIONS

PARAMNAME	VARCHAR2(20)	not null
LANGUAGE	CHAR(2)	not null
CODEVALUE	VARCHAR2(3)	not null
DESCRIPTION	VARCHAR2(60)	not null
PROTOCOL	VARCHAR2(25)	not null
DATEDEACTIVATED	DATE	null
COMMENTS	VARCHAR2(200)	null

INVESTIGATION_CODES

InvstgnCode	CHAR(4)	not null
InvstgnName	VARCHAR2(32)	not null
Description	VARCHAR2(200)	not null
TeachersGuideURL	VARCHAR2(100)	null

SITE_CODES

SiteCode	CHAR(3)	not null
SiteCodeName	VARCHAR2(32)	not null
InvstgnCode	CHAR(4)	not null
Description	VARCHAR2(200)	null

DB_MASTER_SITES

DBmasterSite	CHAR(1)	not null
Global_Name	VARCHAR2(32)	not null
Location	VARCHAR2(32)	not null
Cycle	CHAR(4)	null

MEASURE_CODES

MeasureCode	CHAR(2)	not null
MeasureName	VARCHAR2(32)	not null
InvstgnCode	CHAR(4)	not null
IsCurrent	CHAR(1)	not null
LevelType	CHAR(3)	null
Parent	CHAR(2)	null
GlobePhase	CHAR(4)	not null
Description	VARCHAR2(200)	null
TeachersGuideURL	VARCHAR2(100)	null

URBANIZATION_CODES

UrbanizationCode	CHAR(2)	not null
UrbanizationName	VARCHAR2(80)	not null
Description	VARCHAR2(200)	not null
DescripFrench	VARCHAR2(200)	null
DescripSpanish	VARCHAR2(200)	null
DescripRussian	VARCHAR2(200)	null
DescripChinese	VARCHAR2(200)	null
DescripArabic	VARCHAR2(200)	null

SCHOOLGRADE_CODES

GradeCode	CHAR(1)	not null
GradeName	VARCHAR2(80)	not null
Description	VARCHAR2(200)	not null
DescripFrench	VARCHAR2(200)	null
DescripSpanish	VARCHAR2(200)	null
DescripRussian	VARCHAR2(200)	null
DescripChinese	VARCHAR2(200)	null
DescripArabic	VARCHAR2(200)	null

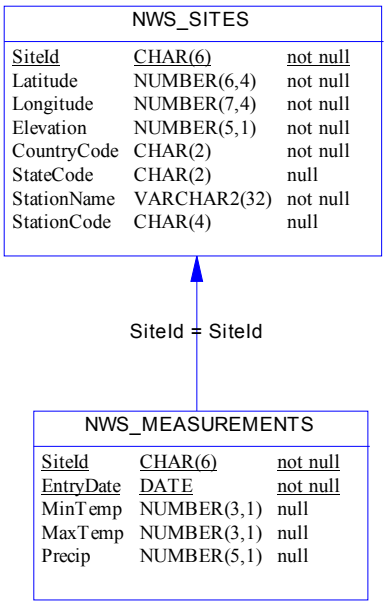
LANDCOVER_CODES

MUCcode	VARCHAR(4)	not null
MUCname	VARCHAR2(100)	not null
ClassLevel	NUMBER(1)	not null
IsLeaf	CHAR(1)	not null
IsMeasurable	CHAR(1)	not null
Description	VARCHAR2(800)	null
DescripFrench	VARCHAR2(800)	null
DescripSpanish	VARCHAR2(800)	null
DescripRussian	VARCHAR2(800)	null
DescripChinese	VARCHAR2(800)	null
DescripArabic	VARCHAR2(800)	null

LIFECYCLE_CODES

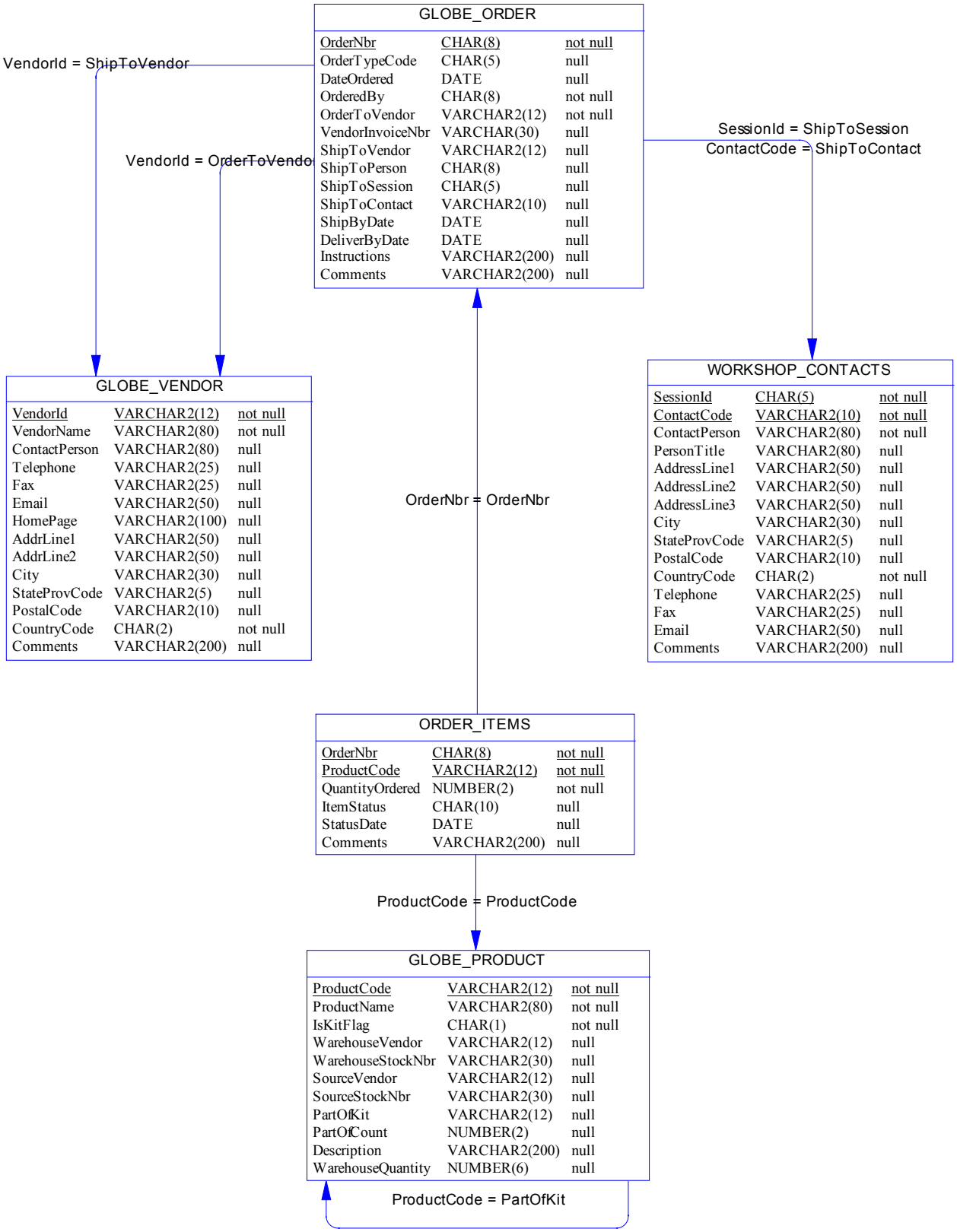
LifeCycleCode	CHAR(1)	not null
LifeCycleName	VARCHAR2(80)	not null
Description	VARCHAR2(200)	not null
DescripFrench	VARCHAR2(200)	null
DescriptSpanish	VARCHAR2(200)	null
DescripRussian	VARCHAR2(200)	null
DescripChinese	VARCHAR2(200)	null
DescripArabic	VARCHAR2(200)	null

31 Diagram of NWS Reference Data

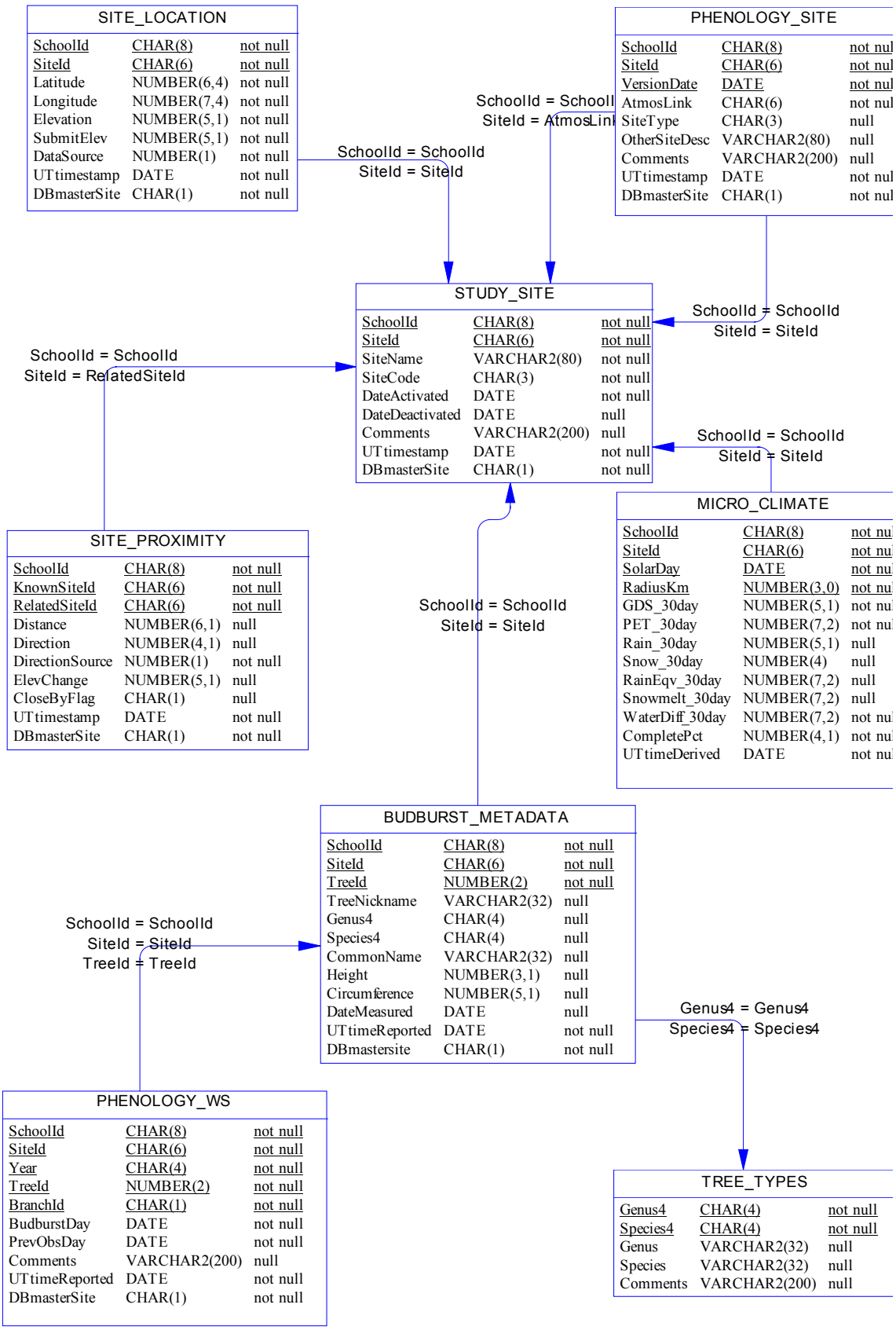

NWS_SITES
SiteId CHAR(6) not null
Latitude NUMBER(6,4) not null
Longitude NUMBER(7,4) not null
Elevation NUMBER(5,1) not null
CountryCode CHAR(2) not null
StateCode CHAR(2) null
StationName VARCHAR2(32) not null
StationCode CHAR(4) null
SiteId = SiteId
NWS_MEASUREMENTS
SiteId CHAR(6) not null
EntryDate DATE not null
MinTemp NUMBER(3,1) null
MaxTemp NUMBER(3,1) null
Precip NUMBER(5,1) null

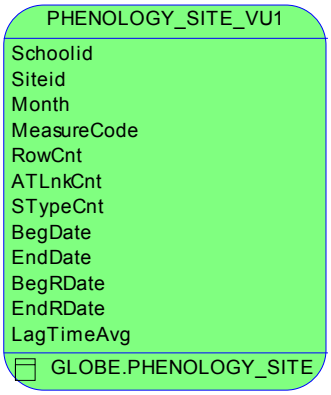
32 Diagram of OrderInventory

Draft design -- 1999
Not Implemented



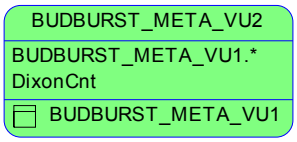
33 Diagram of Phenology_Budburst


SITE_LOCATION
SchoolId CHAR(8) not null
SiteId CHAR(6) not null
Latitude NUMBER(6,4) not null
Longitude NUMBER(7,4) not null
Elevation NUMBER(5,1) not null
SubmitElev NUMBER(5,1) not null
DataSource NUMBER(1) not null
UTtimestamp DATE not null
DBmasterSite CHAR(1) not null
PHENOLOGY_SITE
SchoolId CHAR(8) not nul
SiteId CHAR(6) not nul
VersionDate DATE not nul
AtmosLink CHAR(6) not nul
SiteType CHAR(3) null
OtherSiteDesc VARCHAR2(80) null
Comments VARCHAR2(200) null
UTtimestamp DATE not nul
DBmasterSite CHAR(1) not nul
SchoolId = SchoolI
SiteId = AtmosLin
SchoolId = SchoolId
SiteId = SiteId
STUDY_SITE
SchoolId CHAR(8) not null
SiteId CHAR(6) not null
SiteName VARCHAR2(80) not null
SiteCode CHAR(3) not null
DateActivated DATE not null
DateDeactivated DATE null
Comments VARCHAR2(200) null
UTtimestamp DATE not null
DBmasterSite CHAR(1) not null
SchoolId = SchoolId
SiteId = SiteId
SchoolId = SchoolId
SiteId = RelatedSiteId
SchoolId = SchoolId
SiteId = SiteId
MICRO_CLIMATE
SchoolId CHAR(8) not nu
SiteId CHAR(6) not nu
SolarDay DATE not nu
RadiusKm NUMBER(3,0) not nu
GDS_30day NUMBER(5,1) not nu
PET_30day NUMBER(7,2) not nu
Rain_30day NUMBER(5,1) null
Snow_30day NUMBER(4) null
RainEqv_30day NUMBER(7,2) null
Snowmelt_30day NUMBER(7,2) null
WaterDiff_30day NUMBER(7,2) not nu
CompletePct NUMBER(4,1) not nu
UTtimeDerived DATE not nu
SITE_PROXIMITY
SchoolId CHAR(8) not null
KnownSiteId CHAR(6) not null
RelatedSiteId CHAR(6) not null
Distance NUMBER(6,1) null
Direction NUMBER(4,1) null
DirectionSource NUMBER(1) not null
ElevChange NUMBER(5,1) null
CloseByFlag CHAR(1) null
UTtimestamp DATE not null
DBmasterSite CHAR(1) not null
SchoolId = SchoolId
SiteId = SiteId
BUDBURST_METADATA
SchoolId CHAR(8) not null
SiteId CHAR(6) not null
TreeId NUMBER(2) not null
TreeNickname VARCHAR2(32) null
Genus4 CHAR(4) null
Species4 CHAR(4) null
CommonName VARCHAR2(32) null
Height NUMBER(3,1) null
Circumference NUMBER(5,1) null
DateMeasured DATE null
UTtimeReported DATE not null
DBmastersite CHAR(1) not null
SchoolId = SchoolId
SiteId = SiteId
TreeId = TreeId
Genus4 = Genus4
Species4 = Species4
PHENOLOGY_WS
SchoolId CHAR(8) not null
SiteId CHAR(6) not null
Year CHAR(4) not null
TreeId NUMBER(2) not null
BranchId CHAR(1) not null
BudburstDay DATE not null
PrevObsDay DATE not null
Comments VARCHAR2(200) null
UTtimeReported DATE not null
DBmasterSite CHAR(1) not null
TREE_TYPES
Genus4 CHAR(4) not null
Species4 CHAR(4) not null
Genus VARCHAR2(32) null
Species VARCHAR2(32) null
Comments VARCHAR2(200) null



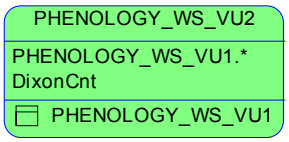
PHENOLOGY_SITE_CNT

SchoolId	CHAR(8)	not null
SiteId	CHAR(6)	not null
Month	DATE	not null
MeasureCode	CHAR(2)	not null
RowCnt	INTEGER	not null
DixonCnt	INTEGER	not null
ATLnkCnt	INTEGER	not null
STypeCnt	INTEGER	not null
BegDate	DATE	not null
EndDate	DATE	not null
BegRDate	DATE	not null
EndRDate	DATE	not null
LagTimeAvg	NUMBER(6,2)	not null



BUDBURST_META_CNT

SchoolId	CHAR(8)	not null
SiteId	CHAR(6)	not null
Month	DATE	not null
MeasureCode	CHAR(2)	not null
RowCnt	INTEGER	not null
DixonCnt	INTEGER	not null
HtCnt	INTEGER	not null
CmCnt	INTEGER	not null
BegDate	DATE	not null
EndDate	DATE	not null
BegRDate	DATE	not null
EndRDate	DATE	not null
LagTimeAvg	NUMBER(6,2)	not null



PHENOLOGY_WS_CNT

SchoolId	CHAR(8)	not null
SiteId	CHAR(6)	not null
Month	DATE	not null
MeasureCode	CHAR(2)	not null
RowCnt	INTEGER	not null
DixonCnt	INTEGER	not null
BBCnt	INTEGER	not null
POCnt	INTEGER	not null
BegDate	DATE	not null
EndDate	DATE	not null
BegRDate	DATE	not null
EndRDate	DATE	not null
LagTimeAvg	NUMBER(6,2)	not null

PRECIP_SOLID

SchoolId	CHAR(8)	not null
SiteId	CHAR(6)	not null
SolarDay	DATE	not null
SolarHour	NUMBER(2)	not null
SolarMin	NUMBER(2)	null
NewAmount	NUMBER(4)	null
DailyTMAflag	CHAR(1)	null
RainEquivalent	NUMBER(5,1)	null
RainEquivTMAflag	CHAR(1)	null
DaysAccumulated	NUMBER(2)	not null
CurrentDepth	NUMBER(4)	null
TotalTMAflag	CHAR(1)	null
WaterEquiv	NUMBER(5,1)	null
WaterEquivTMAflag	CHAR(1)	null
Acidity	NUMBER(3,1)	null
AcidityMethod	NUMBER(1)	not null
AciditySnowpack	NUMBER(3,1)	null
Comments	VARCHAR2(200)	null
VisualDay	DATE	not null
UTtimeMeasured	DATE	not null
UTtimeReported	DATE	not null
DBmasterSite	CHAR(1)	not null

PRECIP_RAIN

SchoolId	CHAR(8)	not null
SiteId	CHAR(6)	not null
SolarDay	DATE	not null
SolarHour	NUMBER(2)	not null
SolarMin	NUMBER(2)	null
RainAmount	NUMBER(5,1)	null
DailyTMAFlag	CHAR(1)	null
DaysAccumulated	NUMBER(2)	not null
Acidity	NUMBER(3,1)	null
AcidityMethod	NUMBER(1)	not null
Comments	VARCHAR2(200)	null
VisualDay	DATE	not null
UTtimeMeasured	DATE	not null
UTtimeReported	DATE	not null
DBmasterSite	CHAR(1)	not null

PET_CHART

AvgTemp	NUMBER(3,1)	not null
PETvalue	NUMBER(7,2)	not null

AIR_TEMP

SchoolId	CHAR(8)	not null
SiteId	CHAR(6)	not null
SolarDay	DATE	not null
SolarHour	NUMBER(2)	not null
SolarMin	NUMBER(2)	null
CurrentTemp	NUMBER(3,1)	null
ThermomType	NUMBER(1)	null
MaxTemp	NUMBER(3,1)	null
MinTemp	NUMBER(3,1)	null
Comments	VARCHAR2(200)	null
VisualDay	DATE	not null
UTtimeMeasured	DATE	not null
UTtimeReported	DATE	not null
DBmasterSite	CHAR(1)	not null

PHN_JoinThree_VU

SchoolId
SiteId
SolarDay
AvgTemp
GDSvalue
NewRain
PRECIP_RAIN_DAILYTMAFL
NewSnow
PRECIP_SOLID_DAILYTMAF
RainEquiv
F3
Snowpack
F4
WaterEquiv
F5

GLOBE.AIR_TEMP
GLOBE.PRECIP_RAIN
GLOBE.PRECIP_SOLID

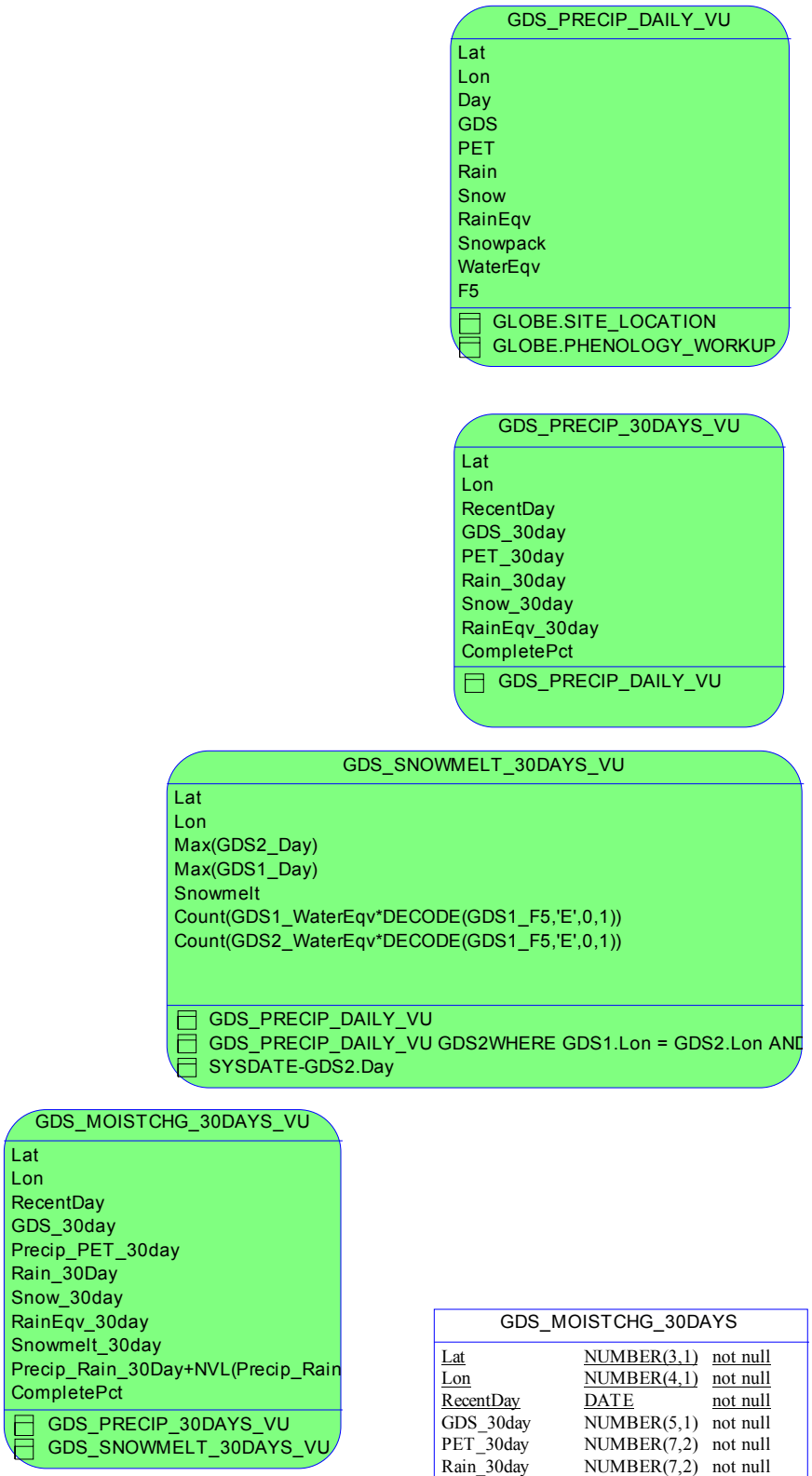
PHENOLOGY_WORKUP

SchoolId	CHAR(8)	not null
SiteId	CHAR(6)	not null
SolarDay	DATE	not null
AvgTemp	NUMBER(3,1)	not null
GDSvalue	NUMBER(5,1)	not null
PETvalue	NUMBER(7,2)	not null
NewRain	NUMBER(5,1)	null
F1	CHAR(1)	null
NewSnow	NUMBER(4)	null
F2	CHAR(1)	null
RainEquiv	NUMBER(5,1)	null
F3	CHAR(1)	null
Snowpack	NUMBER(4)	null
F4	CHAR(1)	null
WaterEquiv	NUMBER(5,1)	null
F5	CHAR(1)	null
WaterDiff	NUMBER(7,2)	null

PHN_JoinFour_VU

PHN_JoinThree_VU.*
PETVALUE
WaterDiff

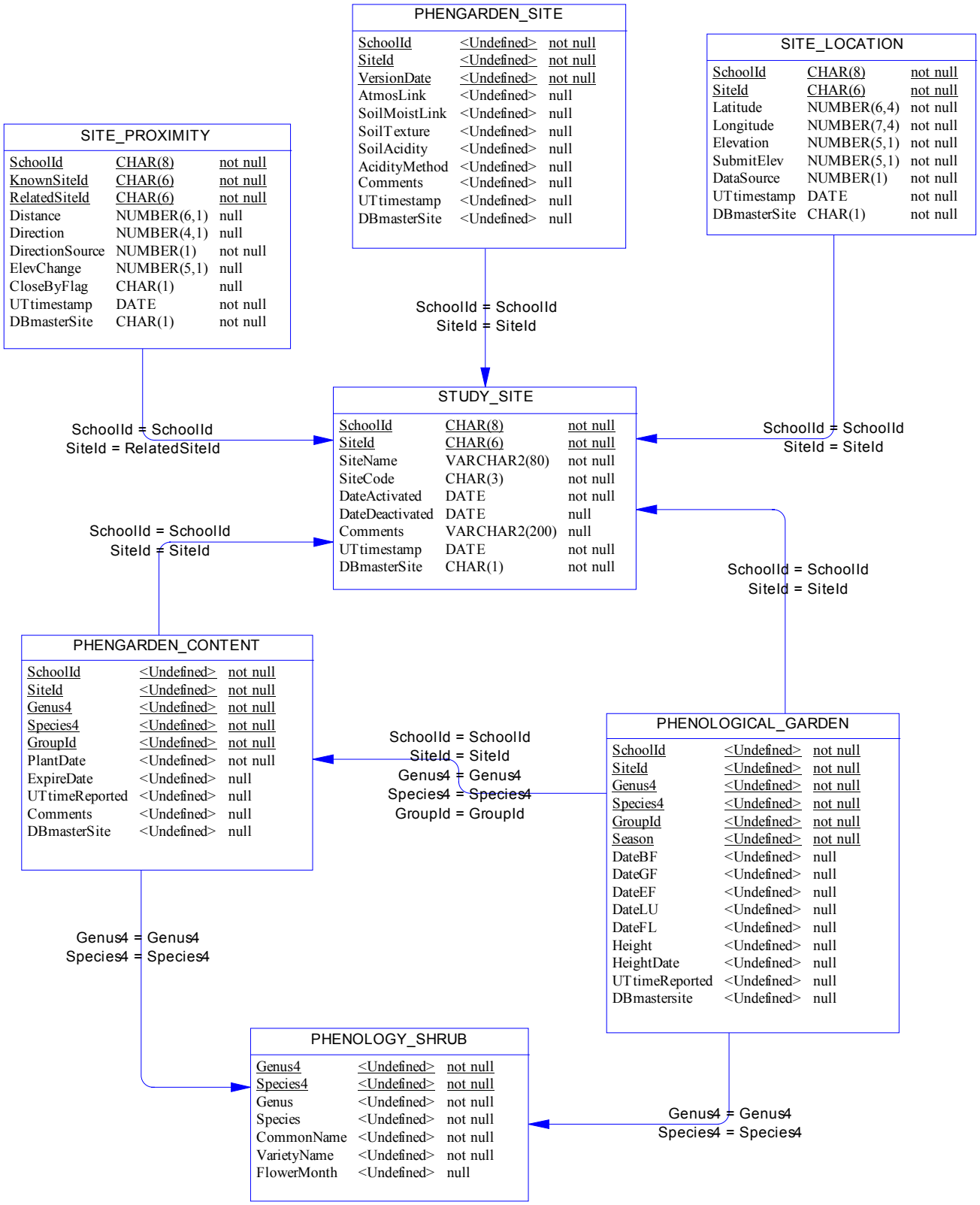
PHN_JoinThree_VU
GLOBE.PET_CHART


GDS_PRECIP_DAILY_VU
Lat
Lon
Day
GDS
PET
Rain
Snow
RainEqv
Snowpack
WaterEqv
F5
GLOBE.SITE_LOCATION
GLOBE.PHENOLOGY_WORKUP
GDS_PRECIP_30DAYS_VU
Lat
Lon
RecentDay
GDS_30day
PET_30day
Rain_30day
Snow_30day
RainEqv_30day
CompletePct
GDS_PRECIP_DAILY_VU
GDS_SNOWMELT_30DAYS_VU
Lat
Lon
Max(GDS2_Day)
Max(GDS1_Day)
Snowmelt
Count(GDS1_WaterEqv*DECODE(GDS1_F5,'E',0,1))
Count(GDS2_WaterEqv*DECODE(GDS1_F5,'E',0,1))
GDS_PRECIP_DAILY_VU
GDS_PRECIP_DAILY_VU GDS2WHERE GDS1.Lon = GDS2.Lon AND
SYSDATE-GDS2.Day
GDS_MOISTCHG_30DAYS_VU
Lat
Lon
RecentDay
GDS_30day
Precip_PET_30day
Rain_30Day
Snow_30day
RainEqv_30day
Snowmelt_30day
Precip_Rain_30Day+NVL(Precip_Rain
CompletePct
GDS_PRECIP_30DAYS_VU
GDS_SNOWMELT_30DAYS_VU
GDS_MOISTCHG_30DAYS
Lat NUMBER(3,1) not null
Lon NUMBER(4,1) not null
RecentDay DATE not null
GDS_30day NUMBER(5,1) not null
PET_30day NUMBER(7,2) not null
Rain_30day NUMBER(7,2) not null
Snow_30day NUMBER(4) null
RainEqv_30day NUMBER(7,2) null
Snowmelt_30day NUMBER(7,2) null
WaterDiff_30day NUMBER(7,2) null
CompletePct NUMBER(4,1) null

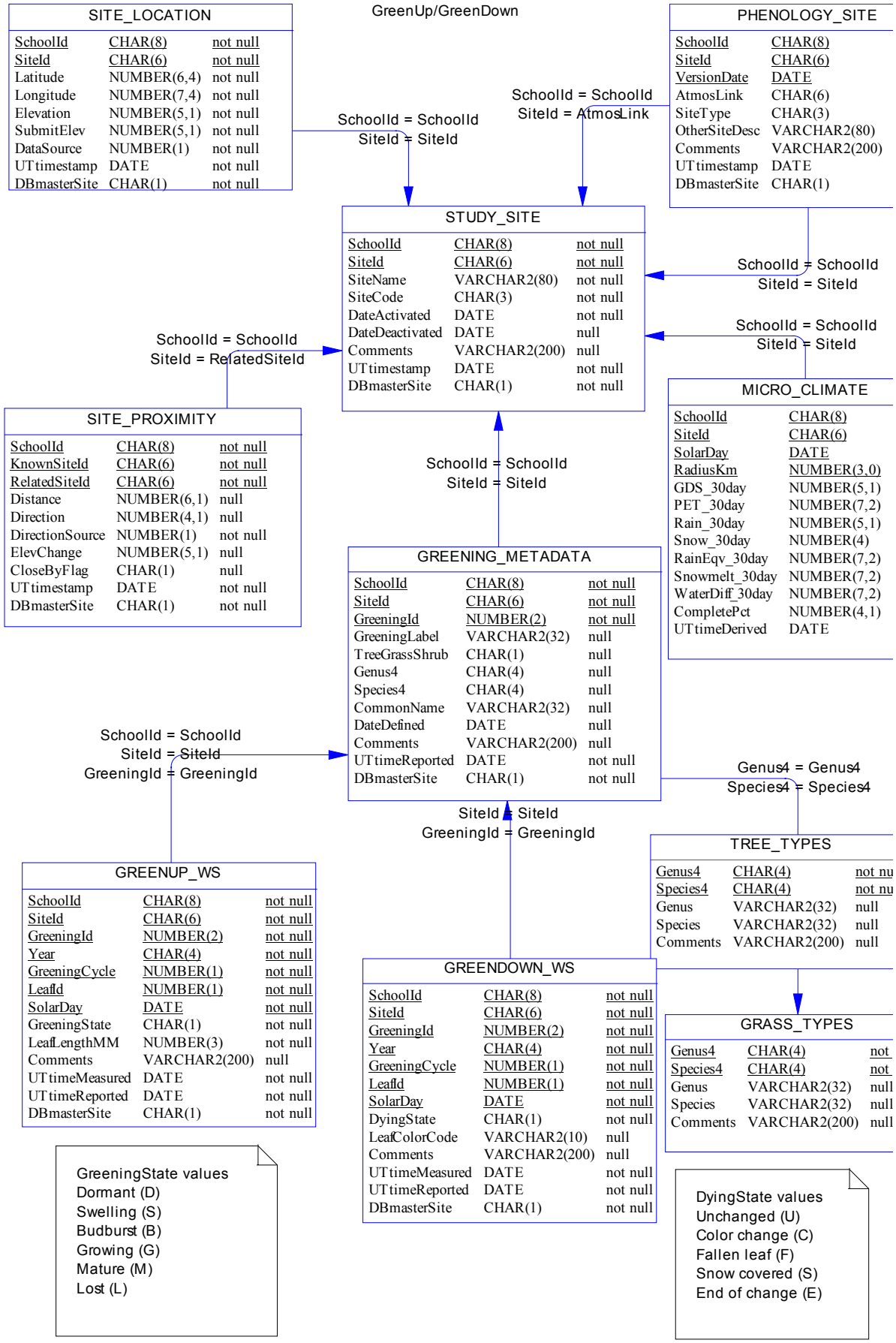
34 Diagram of Phenology_Garden

Phenological Gardens

Preliminary Design – May 20, 2002



35 Diagram of Phenology_Greening


GreenUp/GreenDown
SITE_LOCATION
SchoolId CHAR(8) not null
SiteId CHAR(6) not null
Latitude NUMBER(6,4) not null
Longitude NUMBER(7,4) not null
Elevation NUMBER(5,1) not null
SubmitElev NUMBER(5,1) not null
DataSource NUMBER(1) not null
UTtimestamp DATE not null
DBmasterSite CHAR(1) not null
SchoolId = SchoolId
SiteId = SiteId
SchoolId = SchoolId
SiteId = AtmosLink
PHENOLOGY_SITE
SchoolId CHAR(8)
SiteId CHAR(6)
VersionDate DATE
AtmosLink CHAR(6)
SiteType CHAR(3)
OtherSiteDesc VARCHAR2(80)
Comments VARCHAR2(200)
UTtimestamp DATE
DBmasterSite CHAR(1)
STUDY_SITE
SchoolId CHAR(8) not null
SiteId CHAR(6) not null
SiteName VARCHAR2(80) not null
SiteCode CHAR(3) not null
DateActivated DATE not null
DateDeactivated DATE null
Comments VARCHAR2(200) null
UTtimestamp DATE not null
DBmasterSite CHAR(1) not null
SchoolId = SchoolId
SiteId = SiteId
SchoolId = SchoolId
SiteId = SiteId
SchoolId = SchoolId
SiteId = RelatedSiteId
MICRO_CLIMATE
SchoolId CHAR(8)
SiteId CHAR(6)
SolarDay DATE
RadiusKm NUMBER(3,0)
GDS_30day NUMBER(5,1)
PET_30day NUMBER(7,2)
Rain_30day NUMBER(5,1)
Snow_30day NUMBER(4)
RainEqv_30day NUMBER(7,2)
Snowmelt_30day NUMBER(7,2)
WaterDiff_30day NUMBER(7,2)
CompletePct NUMBER(4,1)
UTtimeDerived DATE
SITE_PROXIMITY
SchoolId CHAR(8) not null
KnownSiteId CHAR(6) not null
RelatedSiteId CHAR(6) not null
Distance NUMBER(6,1) null
Direction NUMBER(4,1) null
DirectionSource NUMBER(1) not null
ElevChange NUMBER(5,1) null
CloseByFlag CHAR(1) null
UTtimestamp DATE not null
DBmasterSite CHAR(1) not null
SchoolId = SchoolId
SiteId = SiteId
GREENING_METADATA
SchoolId CHAR(8) not null
SiteId CHAR(6) not null
GreeningId NUMBER(2) not null
GreeningLabel VARCHAR2(32) null
TreeGrassShrub CHAR(1) null
Genus4 CHAR(4) null
Species4 CHAR(4) null
CommonName VARCHAR2(32) null
DateDefined DATE null
Comments VARCHAR2(200) null
UTtimeReported DATE not null
DBmasterSite CHAR(1) not null
SchoolId = SchoolId
SiteId = SiteId
GreeningId = GreeningId
Genus4 = Genus4
Species4 = Species4
SiteId = SiteId
GreeningId = GreeningId
TREE_TYPES
Genus4 CHAR(4) not nu
Species4 CHAR(4) not nu
Genus VARCHAR2(32) null
Species VARCHAR2(32) null
Comments VARCHAR2(200) null
GREENUP_WS
SchoolId CHAR(8) not null
SiteId CHAR(6) not null
GreeningId NUMBER(2) not null
Year CHAR(4) not null
GreeningCycle NUMBER(1) not null
LeafId NUMBER(1) not null
SolarDay DATE not null
GreeningState CHAR(1) not null
LeafLengthMM NUMBER(3) not null
Comments VARCHAR2(200) null
UTtimeMeasured DATE not null
UTtimeReported DATE not null
DBmasterSite CHAR(1) not null
GREENDOWN_WS
SchoolId CHAR(8) not null
SiteId CHAR(6) not null
GreeningId NUMBER(2) not null
Year CHAR(4) not null
GreeningCycle NUMBER(1) not null
LeafId NUMBER(1) not null
SolarDay DATE not null
DyingState CHAR(1) not null
LeafColorCode VARCHAR2(10) null
Comments VARCHAR2(200) null
UTtimeMeasured DATE not null
UTtimeReported DATE not null
DBmasterSite CHAR(1) not null
GRASS_TYPES
Genus4 CHAR(4) not
Species4 CHAR(4) not
Genus VARCHAR2(32) null
Species VARCHAR2(32) null
Comments VARCHAR2(200) null
GreeningState values
Dormant (D)
Swelling (S)
Budburst (B)
Growing (G)
Mature (M)
Lost (L)
DyingState values
Unchanged (U)
Color change (C)
Fallen leaf (F)
Snow covered (S)
End of change (E)

GreenUp Summary Views

GREENUP_MAXLENGTH

- SchoolId
- SiteId
- GreeningId
- Year
- GreeningCycle
- LeafId
- MaxLength

GLOBE.GREENUP_WS

The GreenUp_MaxLength view claculates the maximum length reported for a specific leaf during its growing cycle. This maximum ignores all other factors, such as loss or destruction, so the result must be used judiciously.

GREENUP_LOSTLEAF

- X.SchoolId
- SiteId
- GreeningId
- Year
- GreeningCycle
- LeafId

GLOBE.GREENUP_WS
X
Y

The GreenUp_LostLeaf view identifies all leaves that have been labeled as "Lost" at anytime during their growing cycle before being labeled as "Mature". Such leaves are not used in any summary calculations below.

GREENUP_STATES

- SchoolId
- SiteId
- GreeningId
- Year
- GreeningCycle
- LeafId
- MaxLength
- Trunc(MIN(S_SolarDay)-TO_DA
- Trunc(MIN(B_SolarDay)-TO_DA
- Trunc(MIN(G_SolarDay)-TO_DA
- Pct98Day
- Trunc(MIN(M_SolarDay)-TO_DA
- Lost

GLOBE.GREENUP_WS
S
B
G
M
GREENUP_GROWTH
GG
GREENUP_LOSTLEAF
GREENUP_MAXLENGTH

GREENUP_GROWTH

- SchoolId
- SiteId
- GreeningId
- Year
- GreeningCycle
- LeafId
- SolarDay
- Day
- GreeningState
- Length
- PctOfMax

GLOBE.GREENUP_WS
GREENUP_MAXLENGTH

The GreenUp_Growth view tracks the growth of an individual leaf by "day of the year" from initial "Swelling" through its being marked as "Mature" or "Lost".

The GreenUp_States view groups each leaf by the GreeningStates that have been declared for it, finds the maximum length of that leaf, and records the start "day of the year" for each greening state .

GREENUP_SUMMARY

- Latitude
- Elevation
- Genus
- Species
- Year
- GreeningCycle
- MaxLength
- SwellDay
- GrowDay
- Pct98Day
- MatureDay
- LeafCnt

GLOBE.GREENING_METAD
GLOBE.TREE_TYPES
GREENUP_STATES
GLOBE.SITE_LOCATION

The GreenUp_Summary view focuses only on specific genus and species for trees and shrubs. It partitions the globe by latitude and elevation, and then calculates average values for that genus/species at that latitude/elevation.

GreenDown Summary Views

GREENDOWN_FALLENLEAF

X.SchoolId
SiteId
GreeningId
Year
GreeningCycle
LeafId

GLOBE.GREENDOWN_WS
X
Y

The GreenDown_FallenLeaf view identifies all leaves that have been labeled as "Fallen leaf" at anytime during their growing cycle before being labeled as "End of color change". Such leaves are not used in any summary calculations below.

GREENDOWN_COLOR

SchoolId
SiteId
GreeningId
Year
GreeningCycle
LeafId
SolarDay
Day
DyingState
LeafColorCode

GLOBE.GREENDOWN_WS

The GreenDown_Color view tracks the color change of an individual leaf by "day of the year" from initial "Color change" through its being marked as "Fallen" or "End of color change".

GREENDOWN_STATES

SchoolId
SiteId
GreeningId
Year
GreeningCycle
LeafId
Trunc(MAX(U_SolarDay)-TO_DATE
Trunc(MIN(C_SolarDay)-TO_DATE
Trunc(MAX(C_SolarDay)-TO_DATE
Trunc(MIN(S_SolarDay)-TO_DATE
Trunc(MAX(S_SolarDay)-TO_DATE
Trunc(MIN(E_SolarDay)-TO_DATE
Trunc(MIN(F_SolarDay)-TO_DATE(
EarlyFall

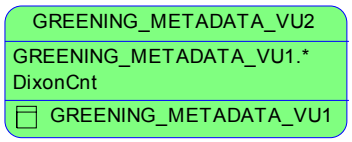
GLOBE.GREENDOWN_WS
U
C
S
E
F
GREENDOWN_FALLENLEAF

The GreenDown_States view groups each leaf by the DyingStates that have been declared for it and records the start "day of the year" for each dying state.

LEAF_COLOR

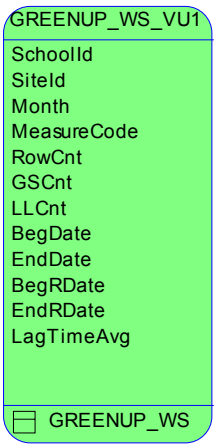
LeafColorCode	Varchar2(11)	not null
Hue	Varchar2(5)	not null
Value	Number(4,2)	not null
Chroma	Number(2)	not null
HueNum	Number(3)	not null
RR	Number(3)	not null
GG	Number(3)	not null
BB	Number(3)	not null
LCARRindex	Number(3)	not null
VisNumCode	Number(9,4)	not null

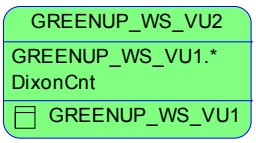
A list of the 24 colors used for leaf and grass colors in the GLOBE GreenUp and GreenDown protocols.

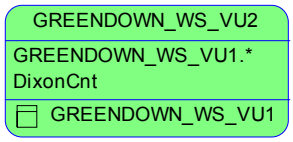


GREENING_METADATA_CNT

SchoolId	CHAR(8)	not null
SiteId	CHAR(6)	not null
Month	DATE	not null
MeasureCode	CHAR(2)	not null
RowCnt	Integer	not null
DixonCnt	Integer	not null
TGSCnt	Integer	not null
GenCnt	Integer	not null
BegDate	DATE	not null
EndDate	DATE	not null
BegRDate	DATE	not null
EndRDate	DATE	not null
LagTimeAvg	Number(6,2)	not null







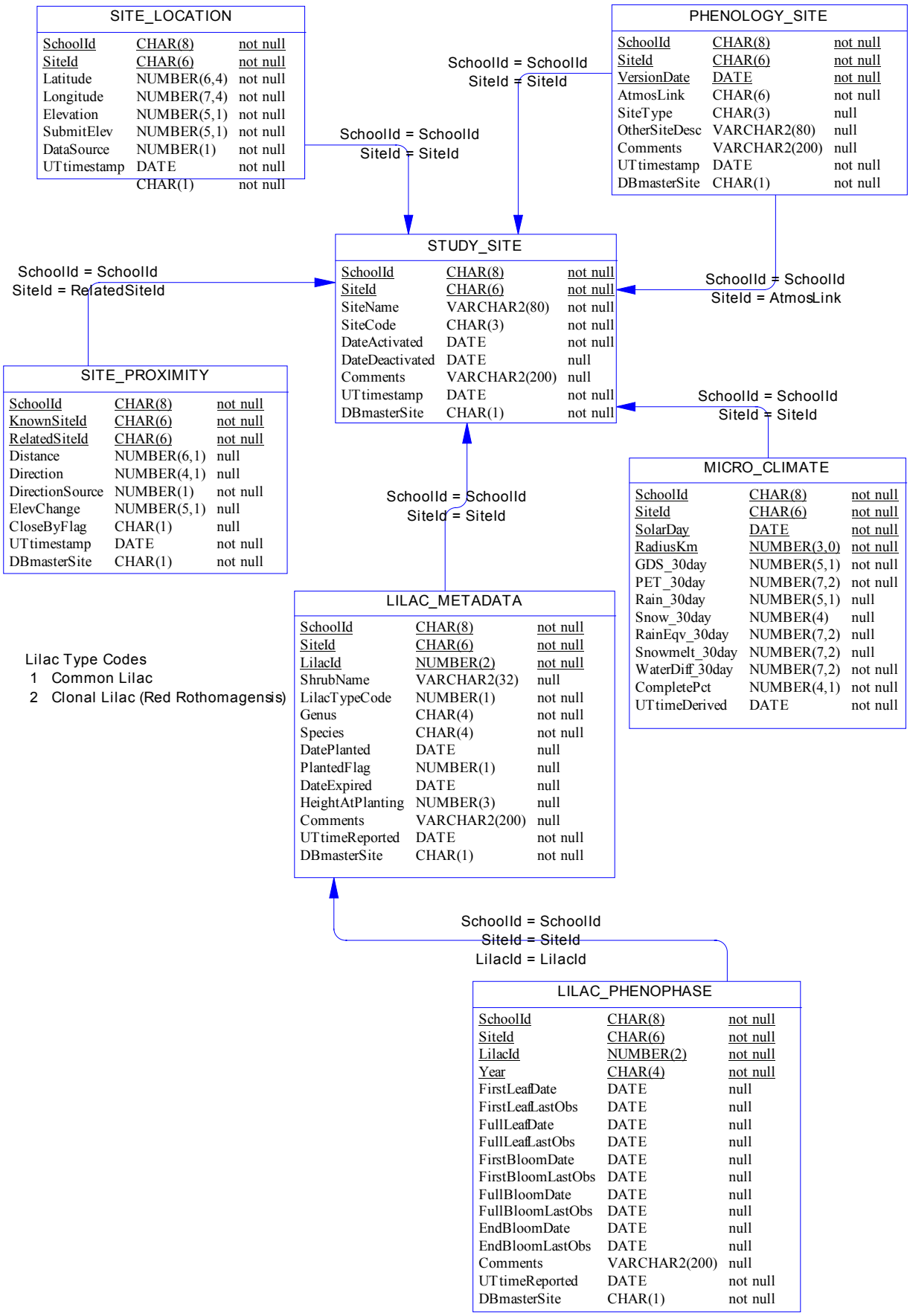
GREENUP_WS_CNT

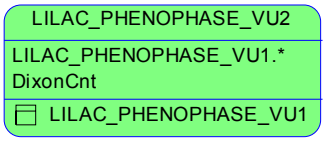
SchoolId	CHAR(8)	not null
SiteId	CHAR(6)	not null
Month	DATE	not null
MeasureCode	CHAR(2)	not null
RowCnt	Integer	not null
DixonCnt	Integer	not null
GSCnt	Integer	not null
LLCnt	Integer	not null
BegDate	DATE	not null
EndDate	DATE	not null
BegRDate	DATE	not null
EndRDate	DATE	not null
LagTimeAvg	Number(6,2)	not null

GREENDOWN_WS_CNT

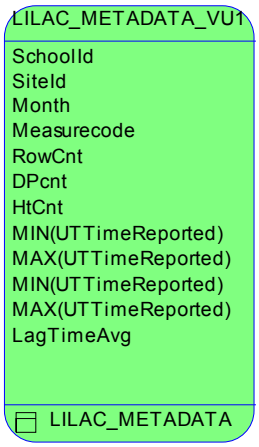
SchoolId	CHAR(8)	not null
SiteId	CHAR(6)	not null
Month	DATE	not null
MeasureCode	CHAR(2)	not null
RowCnt	Integer	not null
DixonCnt	Integer	not null
DSCnt	Integer	not null
LCCnt	Integer	not null
BegDate	DATE	not null
EndDate	DATE	not null
BegRDate	DATE	not null
EndRDate	DATE	not null
LagTimeAvg	Number(6,2)	not null

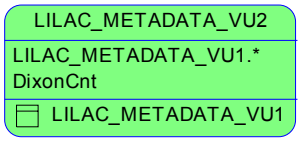
36 Diagram of Phenology_Lilacs


SITE_LOCATION
SchoolId CHAR(8) not null
SiteId CHAR(6) not null
Latitude NUMBER(6,4) not null
Longitude NUMBER(7,4) not null
Elevation NUMBER(5,1) not null
SubmitElev NUMBER(5,1) not null
DataSource NUMBER(1) not null
UTtimestamp DATE not null
CHAR(1) not null
PHENOLOGY_SITE
SchoolId CHAR(8) not null
SiteId CHAR(6) not null
VersionDate DATE not null
AtmosLink CHAR(6) not null
SiteType CHAR(3) null
OtherSiteDesc VARCHAR2(80) null
Comments VARCHAR2(200) null
UTtimestamp DATE not null
DBmasterSite CHAR(1) not null
SchoolId = SchoolId
SiteId = SiteId
SchoolId = SchoolId
SiteId = SiteId
STUDY_SITE
SchoolId CHAR(8) not null
SiteId CHAR(6) not null
SiteName VARCHAR2(80) not null
SiteCode CHAR(3) not null
DateActivated DATE not null
DateDeactivated DATE null
Comments VARCHAR2(200) null
UTtimestamp DATE not null
DBmasterSite CHAR(1) not null
SchoolId = SchoolId
SiteId = RelatedSiteId
SchoolId = SchoolId
SiteId = AtmosLink
SITE_PROXIMITY
SchoolId CHAR(8) not null
KnownSiteId CHAR(6) not null
RelatedSiteId CHAR(6) not null
Distance NUMBER(6,1) null
Direction NUMBER(4,1) null
DirectionSource NUMBER(1) not null
ElevChange NUMBER(5,1) null
CloseByFlag CHAR(1) null
UTtimestamp DATE not null
DBmasterSite CHAR(1) not null
SchoolId = SchoolId
SiteId = SiteId
MICRO_CLIMATE
SchoolId CHAR(8) not null
SiteId CHAR(6) not null
SolarDay DATE not null
RadiusKm NUMBER(3,0) not null
GDS_30day NUMBER(5,1) not null
PET_30day NUMBER(7,2) not null
Rain_30day NUMBER(5,1) null
Snow_30day NUMBER(4) null
RainEqv_30day NUMBER(7,2) null
Snowmelt_30day NUMBER(7,2) null
WaterDiff_30day NUMBER(7,2) not null
CompletePct NUMBER(4,1) not null
UTtimeDerived DATE not null
SchoolId = SchoolId
SiteId = SiteId
LILAC_METADATA
SchoolId CHAR(8) not null
SiteId CHAR(6) not null
LilacId NUMBER(2) not null
ShrubName VARCHAR2(32) null
LilacTypeCode NUMBER(1) not null
Genus CHAR(4) not null
Species CHAR(4) not null
DatePlanted DATE null
PlantedFlag NUMBER(1) null
DateExpired DATE null
HeightAtPlanting NUMBER(3) null
Comments VARCHAR2(200) null
UTtimeReported DATE not null
DBmasterSite CHAR(1) not null
Lilac Type Codes
1 Common Lilac
2 Clonal Lilac (Red Rothomagensis)
SchoolId = SchoolId
SiteId = SiteId
LilacId = LilacId
LILAC_PHENOPHASE
SchoolId CHAR(8) not null
SiteId CHAR(6) not null
LilacId NUMBER(2) not null
Year CHAR(4) not null
FirstLeafDate DATE null
FirstLeafLastObs DATE null
FullLeafDate DATE null
FullLeafLastObs DATE null
FirstBloomDate DATE null
FirstBloomLastObs DATE null
FullBloomDate DATE null
FullBloomLastObs DATE null
EndBloomDate DATE null
EndBloomLastObs DATE null
Comments VARCHAR2(200) null
UTtimeReported DATE not null
DBmasterSite CHAR(1) not null

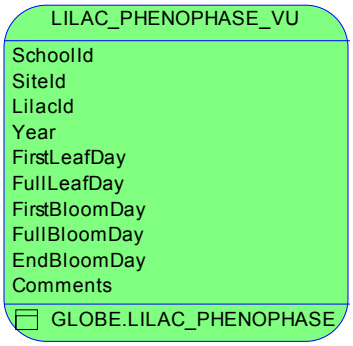


LILAC_PHENOPHASE_CNT		
SchoolId	CHAR(8)	not null
SiteId	CHAR(6)	not null
Month	DATE	not null
MeasureCode	CHAR(2)	not null
RowCnt	INTEGER	not null
DixonCnt	INTEGER	not null
L1Bcnt	INTEGER	not null
L1Pcnt	INTEGER	not null
LFBcnt	INTEGER	not null
LFPcnt	INTEGER	not null
B1Bcnt	INTEGER	not null
B1Pcnt	INTEGER	not null
BFBcnt	INTEGER	not null
BFPcnt	INTEGER	not null
BEBcnt	INTEGER	not null
BEPcnt	INTEGER	not null
BegDate	DATE	not null
EndDate	DATE	not null
BegRDate	DATE	not null
EndRDate	DATE	not null
LagTimeAvg	NUMBER(6,2)	not null

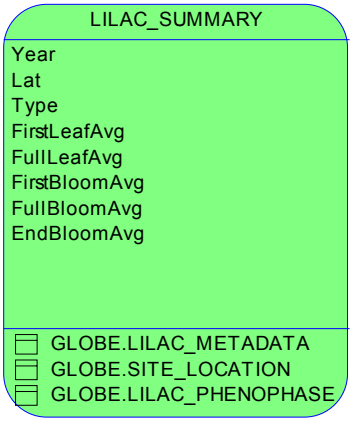




LILAC_METADATA_CNT		
SchoolId	CHAR(8)	not null
SiteId	CHAR(6)	not null
Month	DATE	not null
MeasureCode	CHAR(2)	not null
RowCnt	INTEGER	not null
DixonCnt	INTEGER	not null
DPcnt	INTEGER	not null
HtCnt	INTEGER	not null
BegDate	DATE	not null
EndDate	DATE	not null
BegRDate	DATE	not null
EndRDate	DATE	not null
LagTimeAvg	NUMBER(6,2)	not null



A view over LILAC_PHENOPHASE with phenophase Dates changed to DayOfYear.

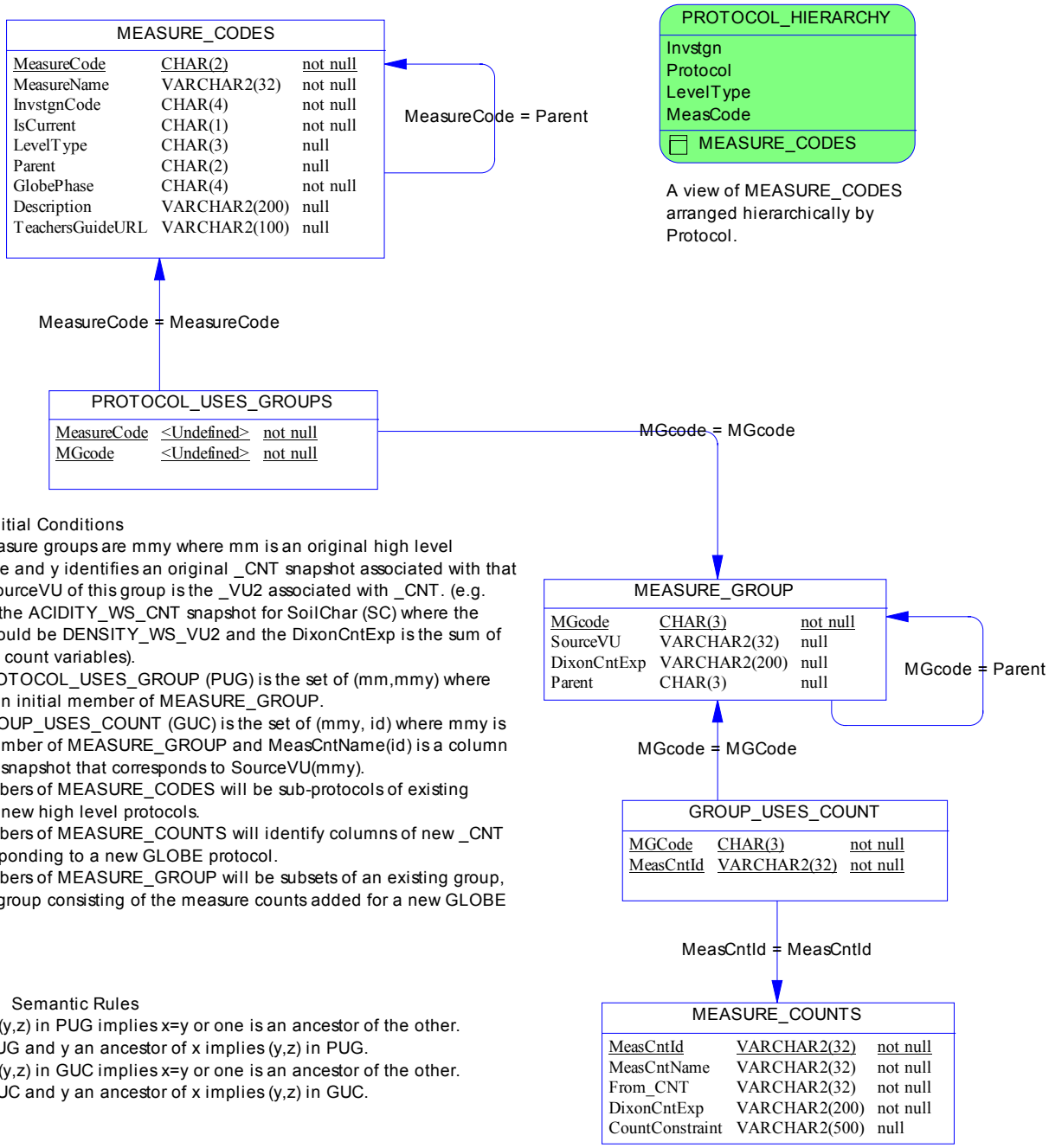


A summary view with phenophase averages over Latitudes rounded to degree.

37 Diagram of Protocol Measurement Count

Protocol Measurement Counts

Early Draft - February 21, 2002



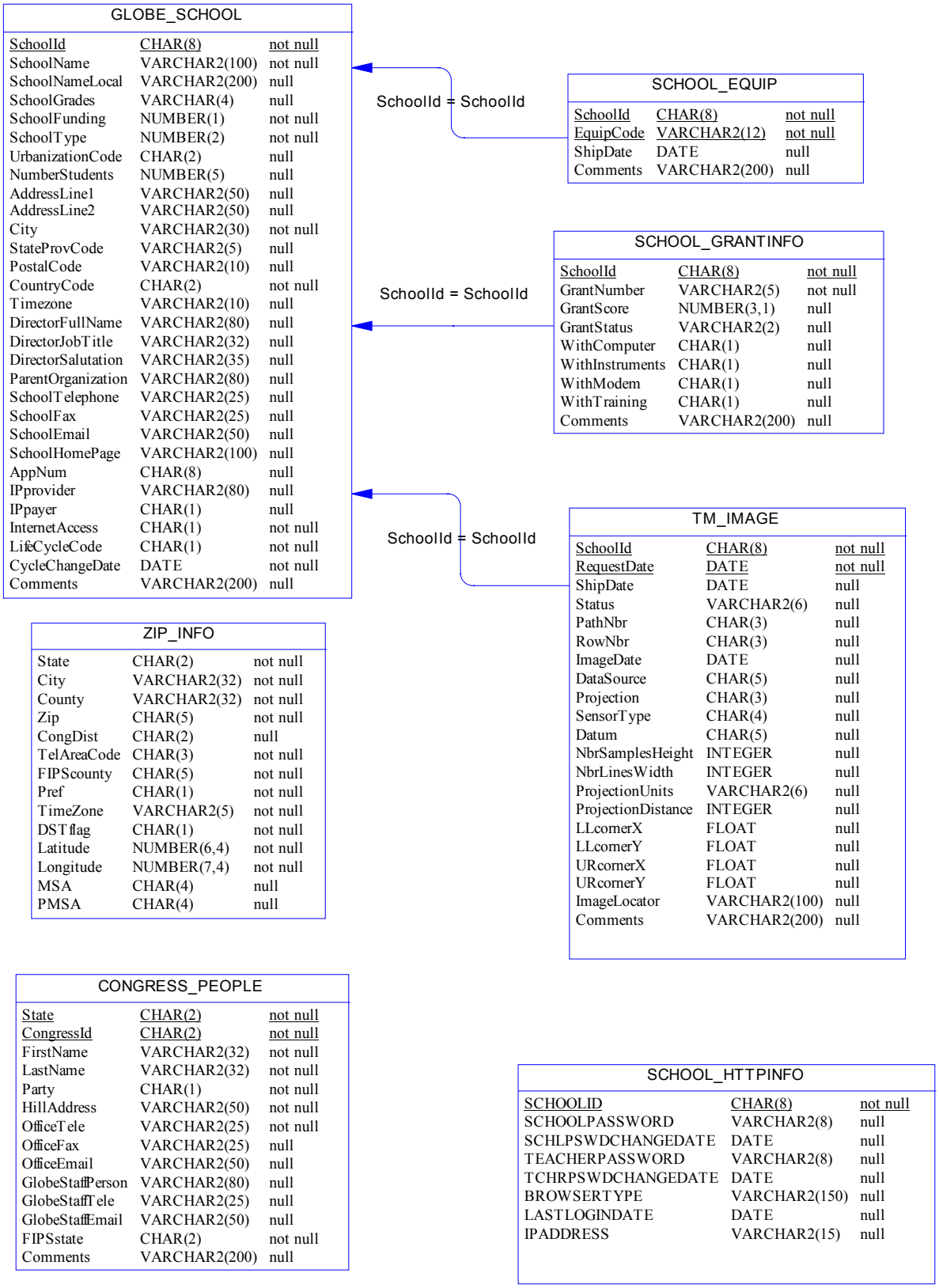
Initial Conditions

1) Initial measure groups are mmy where mm is an original high level MeasureCode and y identifies an original _CNT snapshot associated with that mm. The SourceVU of this group is the _VU2 associated with _CNT. (e.g. SCH is from the ACIDITY_WS_CNT snapshot for SoilChar (SC) where the SourceVU would be DENSITY_WS_VU2 and the DixonCntExp is the sum of two measure count variables).
2) Initial PROTOCOL_USES_GROUP (PUG) is the set of (mm,mmy) where the mmy is an initial member of MEASURE_GROUP.
3) Initial GROUP_USES_COUNT (GUC) is the set of (mmy, id) where mmy is an initial member of MEASURE_GROUP and MeasCntName(id) is a column in the _CNT snapshot that corresponds to SourceVU(mmy).
4) New members of MEASURE_CODES will be sub-protocols of existing protocols, or new high level protocols.
5) New members of MEASURE_COUNTS will identify columns of new _CNT tables corresponding to a new GLOBE protocol.
6) New members of MEASURE_GROUP will be subsets of an existing group, or an initial group consisting of the measure counts added for a new GLOBE protocol.

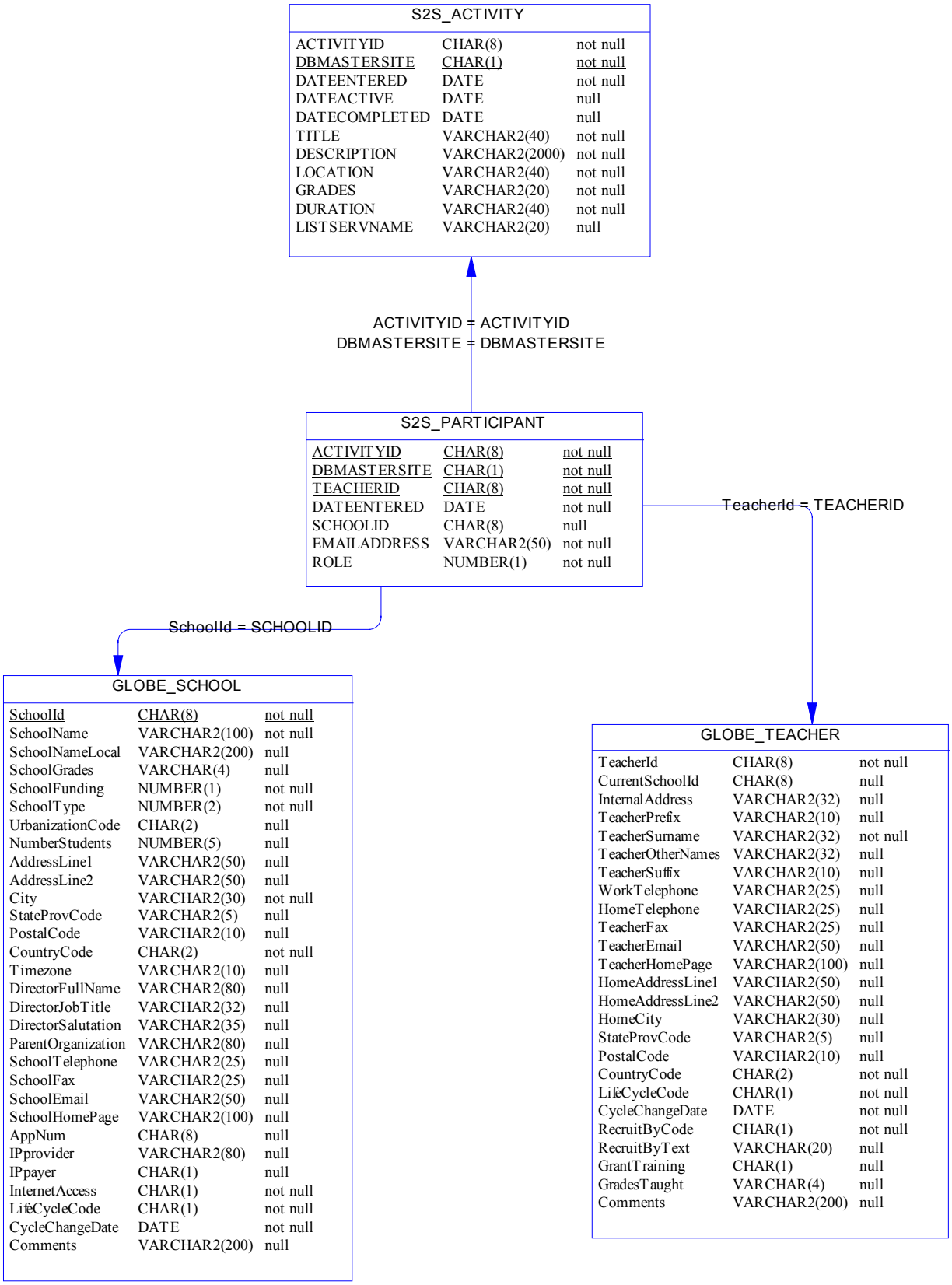
Semantic Rules

1) (x,z) and (y,z) in PUG implies x=y or one is an ancestor of the other.
2) (x,z) in PUG and y an ancestor of x implies (y,z) in PUG.
3) (x,z) and (y,z) in GUC implies x=y or one is an ancestor of the other.
4) (x,z) in GUC and y an ancestor of x implies (y,z) in GUC.

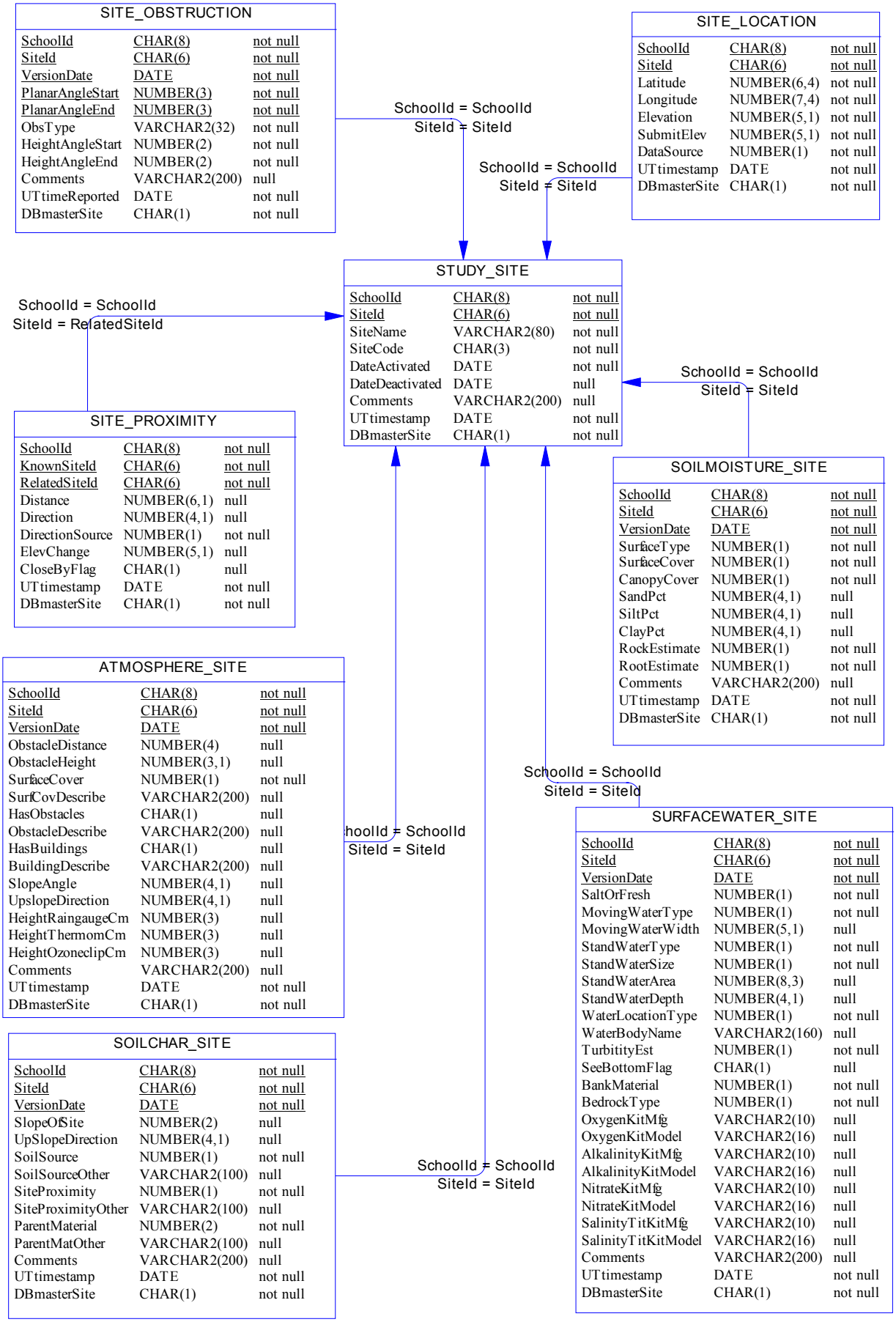
38 Diagram of School Information


GLOBE_SCHOOL
SchoolId CHAR(8) not null
SchoolName VARCHAR2(100) not null
SchoolNameLocal VARCHAR2(200) null
SchoolGrades VARCHAR(4) null
SchoolFunding NUMBER(1) not null
SchoolType NUMBER(2) not null
UrbanizationCode CHAR(2) null
NumberStudents NUMBER(5) null
AddressLine1 VARCHAR2(50) null
AddressLine2 VARCHAR2(50) null
City VARCHAR2(30) not null
StateProvCode VARCHAR2(5) null
PostalCode VARCHAR2(10) null
CountryCode CHAR(2) not null
Timezone VARCHAR2(10) null
DirectorFullName VARCHAR2(80) null
DirectorJobTitle VARCHAR2(32) null
DirectorSalutation VARCHAR2(35) null
ParentOrganization VARCHAR2(80) null
SchoolTelephone VARCHAR2(25) null
SchoolFax VARCHAR2(25) null
SchoolEmail VARCHAR2(50) null
SchoolHomePage VARCHAR2(100) null
AppNum CHAR(8) null
IPprovider VARCHAR2(80) null
IPpayer CHAR(1) null
InternetAccess CHAR(1) not null
LifeCycleCode CHAR(1) not null
CycleChangeDate DATE not null
Comments VARCHAR2(200) null
SchoolId = SchoolId
SCHOOL_EQUIP
SchoolId CHAR(8) not null
EquipCode VARCHAR2(12) not null
ShipDate DATE null
Comments VARCHAR2(200) null
SchoolId = SchoolId
SCHOOL_GRANTINFO
SchoolId CHAR(8) not null
GrantNumber VARCHAR2(5) not null
GrantScore NUMBER(3,1) null
GrantStatus VARCHAR2(2) null
WithComputer CHAR(1) null
WithInstruments CHAR(1) null
WithModem CHAR(1) null
WithTraining CHAR(1) null
Comments VARCHAR2(200) null
SchoolId = SchoolId
TM_IMAGE
SchoolId CHAR(8) not null
RequestDate DATE not null
ShipDate DATE null
Status VARCHAR2(6) null
PathNbr CHAR(3) null
RowNbr CHAR(3) null
ImageDate DATE null
DataSource CHAR(5) null
Projection CHAR(3) null
SensorType CHAR(4) null
Datum CHAR(5) null
NbrSamplesHeight INTEGER null
NbrLinesWidth INTEGER null
ProjectionUnits VARCHAR2(6) null
ProjectionDistance INTEGER null
LLcornerX FLOAT null
LLcornerY FLOAT null
URcornerX FLOAT null
URcornerY FLOAT null
ImageLocator VARCHAR2(100) null
Comments VARCHAR2(200) null
ZIP_INFO
State CHAR(2) not null
City VARCHAR2(32) not null
County VARCHAR2(32) not null
Zip CHAR(5) not null
CongDist CHAR(2) null
TelAreaCode CHAR(3) not null
FIPScounty CHAR(5) not null
Pref CHAR(1) not null
TimeZone VARCHAR2(5) not null
DSTflag CHAR(1) not null
Latitude NUMBER(6,4) not null
Longitude NUMBER(7,4) not null
MSA CHAR(4) null
PMSA CHAR(4) null
CONGRESS_PEOPLE
State CHAR(2) not null
CongressId CHAR(2) not null
FirstName VARCHAR2(32) not null
LastName VARCHAR2(32) not null
Party CHAR(1) not null
HillAddress VARCHAR2(50) not null
OfficeTele VARCHAR2(25) not null
OfficeFax VARCHAR2(25) null
OfficeEmail VARCHAR2(50) null
GlobeStaffPerson VARCHAR2(80) null
GlobeStaffTele VARCHAR2(25) null
GlobeStaffEmail VARCHAR2(50) null
FIPSstate CHAR(2) not null
Comments VARCHAR2(200) null
SCHOOL_HTTPINFO
SCHOOLID CHAR(8) not null
SCHOOLPASSWORD VARCHAR2(8) null
SCHLPSWDCHANGEDATE DATE null
TEACHERPASSWORD VARCHAR2(8) null
TCHRPSWDCHANGEDATE DATE null
BROWSERTYPE VARCHAR2(150) null
LASTLOGINDATE DATE null
IPADDRESS VARCHAR2(15) null

39 Diagram of School To School


S2S_ACTIVITY
ACTIVITYID CHAR(8) not null
DBMASTERSITE CHAR(1) not null
DATEENTERED DATE not null
DATEACTIVE DATE null
DATECOMPLETED DATE null
TITLE VARCHAR2(40) not null
DESCRIPTION VARCHAR2(2000) not null
LOCATION VARCHAR2(40) not null
GRADES VARCHAR2(20) not null
DURATION VARCHAR2(40) not null
LISTSERVNAME VARCHAR2(20) null
ACTIVITYID = ACTIVITYID
DBMASTERSITE = DBMASTERSITE
S2S_PARTICIPANT
ACTIVITYID CHAR(8) not null
DBMASTERSITE CHAR(1) not null
TEACHERID CHAR(8) not null
DATEENTERED DATE not null
SCHOOLID CHAR(8) null
EMAILADDRESS VARCHAR2(50) not null
ROLE NUMBER(1) not null
TeacherId = TEACHERID
SchoolId = SCHOOLID
GLOBE_SCHOOL
SchoolId CHAR(8) not null
SchoolName VARCHAR2(100) not null
SchoolNameLocal VARCHAR2(200) null
SchoolGrades VARCHAR(4) null
SchoolFunding NUMBER(1) not null
SchoolType NUMBER(2) not null
UrbanizationCode CHAR(2) null
NumberStudents NUMBER(5) null
AddressLine1 VARCHAR2(50) null
AddressLine2 VARCHAR2(50) null
City VARCHAR2(30) not null
StateProvCode VARCHAR2(5) null
PostalCode VARCHAR2(10) null
CountryCode CHAR(2) not null
Timezone VARCHAR2(10) null
DirectorFullName VARCHAR2(80) null
DirectorJobTitle VARCHAR2(32) null
DirectorSalutation VARCHAR2(35) null
ParentOrganization VARCHAR2(80) null
SchoolTelephone VARCHAR2(25) null
SchoolFax VARCHAR2(25) null
SchoolEmail VARCHAR2(50) null
SchoolHomePage VARCHAR2(100) null
AppNum CHAR(8) null
IPprovider VARCHAR2(80) null
IPpayer CHAR(1) null
InternetAccess CHAR(1) not null
LifeCycleCode CHAR(1) not null
CycleChangeDate DATE not null
Comments VARCHAR2(200) null
GLOBE_TEACHER
TeacherId CHAR(8) not null
CurrentSchoolId CHAR(8) null
InternalAddress VARCHAR2(32) null
TeacherPrefix VARCHAR2(10) null
TeacherSurname VARCHAR2(32) not null
TeacherOtherNames VARCHAR2(32) null
TeacherSuffix VARCHAR2(10) null
WorkTelephone VARCHAR2(25) null
HomeTelephone VARCHAR2(25) null
TeacherFax VARCHAR2(25) null
TeacherEmail VARCHAR2(50) null
TeacherHomePage VARCHAR2(100) null
HomeAddressLine1 VARCHAR2(50) null
HomeAddressLine2 VARCHAR2(50) null
HomeCity VARCHAR2(30) null
StateProvCode VARCHAR2(5) null
PostalCode VARCHAR2(10) null
CountryCode CHAR(2) not null
LifeCycleCode CHAR(1) not null
CycleChangeDate DATE not null
RecruitByCode CHAR(1) not null
RecruitByText VARCHAR(20) null
GrantTraining CHAR(1) null
GradesTaught VARCHAR(4) null
Comments VARCHAR2(200) null

40 Diagram of Site Metadata


SITE_OBSTRUCTION
SchoolId CHAR(8) not null
SiteId CHAR(6) not null
VersionDate DATE not null
PlanarAngleStart NUMBER(3) not null
PlanarAngleEnd NUMBER(3) not null
ObsType VARCHAR2(32) not null
HeightAngleStart NUMBER(2) not null
HeightAngleEnd NUMBER(2) not null
Comments VARCHAR2(200) null
UTtimeReported DATE not null
DBmasterSite CHAR(1) not null
SchoolId = SchoolId
SiteId = SiteId
SITE_LOCATION
SchoolId CHAR(8) not null
SiteId CHAR(6) not null
Latitude NUMBER(6,4) not null
Longitude NUMBER(7,4) not null
Elevation NUMBER(5,1) not null
SubmitElev NUMBER(5,1) not null
DataSource NUMBER(1) not null
UTtimestamp DATE not null
DBmasterSite CHAR(1) not null
SchoolId = SchoolId
SiteId = SiteId
STUDY_SITE
SchoolId CHAR(8) not null
SiteId CHAR(6) not null
SiteName VARCHAR2(80) not null
SiteCode CHAR(3) not null
DateActivated DATE not null
DateDeactivated DATE null
Comments VARCHAR2(200) null
UTtimestamp DATE not null
DBmasterSite CHAR(1) not null
SchoolId = SchoolId
SiteId = RelatedSiteId
SITE_PROXIMITY
SchoolId CHAR(8) not null
KnownSiteId CHAR(6) not null
RelatedSiteId CHAR(6) not null
Distance NUMBER(6,1) null
Direction NUMBER(4,1) null
DirectionSource NUMBER(1) not null
ElevChange NUMBER(5,1) null
CloseByFlag CHAR(1) null
UTtimestamp DATE not null
DBmasterSite CHAR(1) not null
SchoolId = SchoolId
SiteId = SiteId
SOILMOISTURE_SITE
SchoolId CHAR(8) not null
SiteId CHAR(6) not null
VersionDate DATE not null
SurfaceType NUMBER(1) not null
SurfaceCover NUMBER(1) not null
CanopyCover NUMBER(1) not null
SandPct NUMBER(4,1) null
SiltPct NUMBER(4,1) null
ClayPct NUMBER(4,1) null
RockEstimate NUMBER(1) not null
RootEstimate NUMBER(1) not null
Comments VARCHAR2(200) null
UTtimestamp DATE not null
DBmasterSite CHAR(1) not null
ATMOSPHERE_SITE
SchoolId CHAR(8) not null
SiteId CHAR(6) not null
VersionDate DATE not null
ObstacleDistance NUMBER(4) null
ObstacleHeight NUMBER(3,1) null
SurfaceCover NUMBER(1) not null
SurfCovDescribe VARCHAR2(200) null
HasObstacles CHAR(1) null
ObstacleDescribe VARCHAR2(200) null
HasBuildings CHAR(1) null
BuildingDescribe VARCHAR2(200) null
SlopeAngle NUMBER(4,1) null
UpslopeDirection NUMBER(4,1) null
HeightRaingaugeCm NUMBER(3) null
HeightThermomCm NUMBER(3) null
HeightOzoneclipCm NUMBER(3) null
Comments VARCHAR2(200) null
UTtimestamp DATE not null
DBmasterSite CHAR(1) not null
hoolId = SchoolId
SiteId = SiteId
SchoolId = SchoolId
SiteId = SiteId
SURFACEWATER_SITE
SchoolId CHAR(8) not null
SiteId CHAR(6) not null
VersionDate DATE not null
SaltOrFresh NUMBER(1) not null
MovingWaterType NUMBER(1) not null
MovingWaterWidth NUMBER(5,1) null
StandWaterType NUMBER(1) not null
StandWaterSize NUMBER(1) not null
StandWaterArea NUMBER(8,3) null
StandWaterDepth NUMBER(4,1) null
WaterLocationType NUMBER(1) not null
WaterBodyName VARCHAR2(160) null
TurbitityEst NUMBER(1) not null
SeeBottomFlag CHAR(1) null
BankMaterial NUMBER(1) not null
BedrockType NUMBER(1) not null
OxygenKitMfg VARCHAR2(10) null
OxygenKitModel VARCHAR2(16) null
AlkalinityKitMfg VARCHAR2(10) null
AlkalinityKitModel VARCHAR2(16) null
NitrateKitMfg VARCHAR2(10) null
NitrateKitModel VARCHAR2(16) null
SalinityTitKitMfg VARCHAR2(10) null
SalinityTitKitModel VARCHAR2(16) null
Comments VARCHAR2(200) null
UTtimestamp DATE not null
DBmasterSite CHAR(1) not null
SOILCHAR_SITE
SchoolId CHAR(8) not null
SiteId CHAR(6) not null
VersionDate DATE not null
SlopeOfSite NUMBER(2) null
UpSlopeDirection NUMBER(4,1) null
SoilSource NUMBER(1) not null
SoilSourceOther VARCHAR2(100) null
SiteProximity NUMBER(1) not null
SiteProximityOther VARCHAR2(100) null
ParentMaterial NUMBER(2) not null
ParentMatOther VARCHAR2(100) null
Comments VARCHAR2(200) null
UTtimestamp DATE not null
DBmasterSite CHAR(1) not null
SchoolId = SchoolId
SiteId = SiteId

SITE_LOCATION_VU1
SchoolId
SiteId
Month
MeasureCode
RowCnt
GPSCnt
MIN(UTTimestamp)
MAX(UTTimestamp)
MIN(UTTimestamp)
MAX(UTTimestamp)
SITE_LOCATION
GLOBE_SCHOOL
SITE_PROXIMITY_VU1
SchoolId
SiteId
Month
Measurecode
RowCnt
RelSiteCnt
DistCnt
DirCnt
DirSCnt
EleCnt
CloseCnt
MIN(UTtimestamp)
MAX(UTtimestamp)
MIN(UTtimestamp)
MAX(UTtimestamp)
GLOBE.SITE_PROXIMITY
SOILMOISTURE_SITE_VU1
Schoolid
Siteid
Month
MeasureCode
RowCnt
SurfTypCnt
SurfCovCnt
CanCovCnt
SandCnt
SiltCnt
ClayCnt
RockCnt
RootCnt
BegDate
EndDate
BegRDate
EndRDate
LagTimeAvg
GLOBE.SOILMOISTURE_SITE
ATMOSPHERE_SITE_VU1
Schoolid
Siteid
Month
MeasureCode
RowCnt
ObstDistCnt
ObstHtCnt
SurfCovCnt
BegDate
EndDate
BegRDate
EndRDate
LagTimeAvg
GLOBE.ATMOSPHERE_SITE
SURFACEWATER_SITE_VU1
Schoolid
Siteid
Month
MeasureCode
RowCnt
SorFCnt
MWTypCnt
MWWidCnt
SWTypCnt
SWSizCnt
SWAreaCnt
SWDepCnt
WLocTypCnt
TurbECnt
BotFCnt
BankCnt
BedRCnt
OKitCnt
OModCnt
AKitCnt
AModCnt
NKitCnt
NModCnt
SKitCnt
SModCnt
BegDate
EndDate
BegRDate
EndRDate
ASLagTimeAvg
SURFACEWATER_SITE
SOILCHAR_SITE_VU1
Schoolid
Siteid
Month
MeasureCode
RowCnt
SlopeCnt
SSrceCnt
SProxCnt
SParCnt
BegDate
EndDate
BegRDate
EndRDate
LagTimeAvg
GLOBE.SOILCHAR_SITEWHERE UTtimeStamp < TRUNC
SYSDATE,
+

SITE_PROXIMITY_VU2

SITE_PROXIMITY_VU1.*
DixonCnt

SITE_PROXIMITY_VU1

SITE_PROXIMITY_CNT

SchoolId	CHAR(8)	not null
SiteId	CHAR(6)	not null
Month	DATE	not null
MeasureCode	CHAR(2)	not null
RowCnt	INTEGER	not null
DixonCnt	INTEGER	not null
RelSiteCnt	INTEGER	not null
DistCnt	INTEGER	not null
DirCnt	INTEGER	not null
DirSCnt	INTEGER	not null
EleCnt	INTEGER	not null
CloseCnt	INTEGER	not null
BeginDate	DATE	not null
EndDate	DATE	not null
BegRDate	DATE	not null
EndRDate	DATE	not null

SITE_LOCATION_CNT

SchoolId	CHAR(8)	not null
SiteId	CHAR(6)	not null
Month	DATE	not null
MeasureCode	CHAR(2)	not null
RowCnt	INTEGER	not null
DixonCnt	INTEGER	not null
GPSCnt	INTEGER	not null
BegDate	DATE	not null
EndDate	DATE	not null
BegRDate	DATE	not null
EndRDate	DATE	not null

SITE_LOCATION_VU2

SITE_LOCATION_VU1.*
DixonCnt

SITE_LOCATION_VU1

SOILMOISTURE_SITE_VU2

SOILMOISTURE_SITE_VU1.*
DixonCnt

SOILMOISTURE_SITE_VU1

SOILMOISTURE_SITE_CNT

SchoolId	CHAR(8)	not null
SiteId	CHAR(6)	not null
Month	DATE	not null
MeasureCode	CHAR(2)	not null
RowCnt	INTEGER	not null
DixonCnt	INTEGER	not null
SurfTypCnt	INTEGER	not null
SurfCovCnt	INTEGER	not null
CanCovCnt	INTEGER	not null
SandCnt	INTEGER	not null
SiltCnt	INTEGER	not null
ClayCnt	INTEGER	not null
RockCnt	INTEGER	not null
RootCnt	INTEGER	not null
BegDate	DATE	not null
EndDate	DATE	not null
BegRDate	DATE	not null
EndRDate	DATE	not null
LagTimeAvg	NUMBER(6,2)	not null

ATMOSPHERE_SITE_VU2

ATMOSPHERE_SITE_VU1.*
DixonCnt

ATMOSPHERE_SITE_VU1

ATMOSPHERE_SITE_CNT

SchoolId	CHAR(8)	not null
SiteId	CHAR(6)	not null
Month	DATE	not null
MeasureCode	CHAR(2)	not null
RowCnt	INTEGER	not null
DixonCnt	INTEGER	not null
ObstDistCnt	INTEGER	not null
ObstHtCnt	INTEGER	not null
SurfCovCnt	INTEGER	not null
BegDate	DATE	not null
EndDate	DATE	not null
BegRDate	DATE	not null
EndRDate	DATE	not null
LagTimeAvg	NUMBER(6,2)	not null

SURFACEWATER_SITE_CNT

SchoolId	CHAR(8)	not null
SiteId	CHAR(6)	not null
Month	DATE	not null
MeasureCode	CHAR(2)	not null
RowCnt	INTEGER	not null
DixonCnt	INTEGER	null
SorFCnt	INTEGER	not null
MWTypCnt	INTEGER	not null
MWWidCnt	INTEGER	not null
SWTypCnt	INTEGER	not null
SWSizCnt	INTEGER	not null
SWAreaCnt	INTEGER	not null
SWDepCnt	INTEGER	not null
WLocTypCnt	INTEGER	not null
TurbECnt	INTEGER	not null
BotFCnt	INTEGER	not null
BankCnt	INTEGER	not null
BedRCnt	INTEGER	not null
OKitCnt	INTEGER	not null
OModCnt	INTEGER	not null
AKitCnt	INTEGER	not null
AModCcnt	INTEGER	not null
NKitCnt	INTEGER	not null
NModCnt	INTEGER	not null
SKitCnt	INTEGER	not null
SModCnt	INTEGER	not null
BegDate	DATE	not null
EndDate	DATE	not null
BegRDate	DATE	not null
EndRDate	DATE	not null
LagTimeAvg	NUMBER(6,2)	not null

SURFACEWATER_SITE_VU2

SURFACEWATER_SITE_VU1.*
DixonCnt

SURFACEWATER_SITE_VU1

SOILCHAR_SITE_VU2

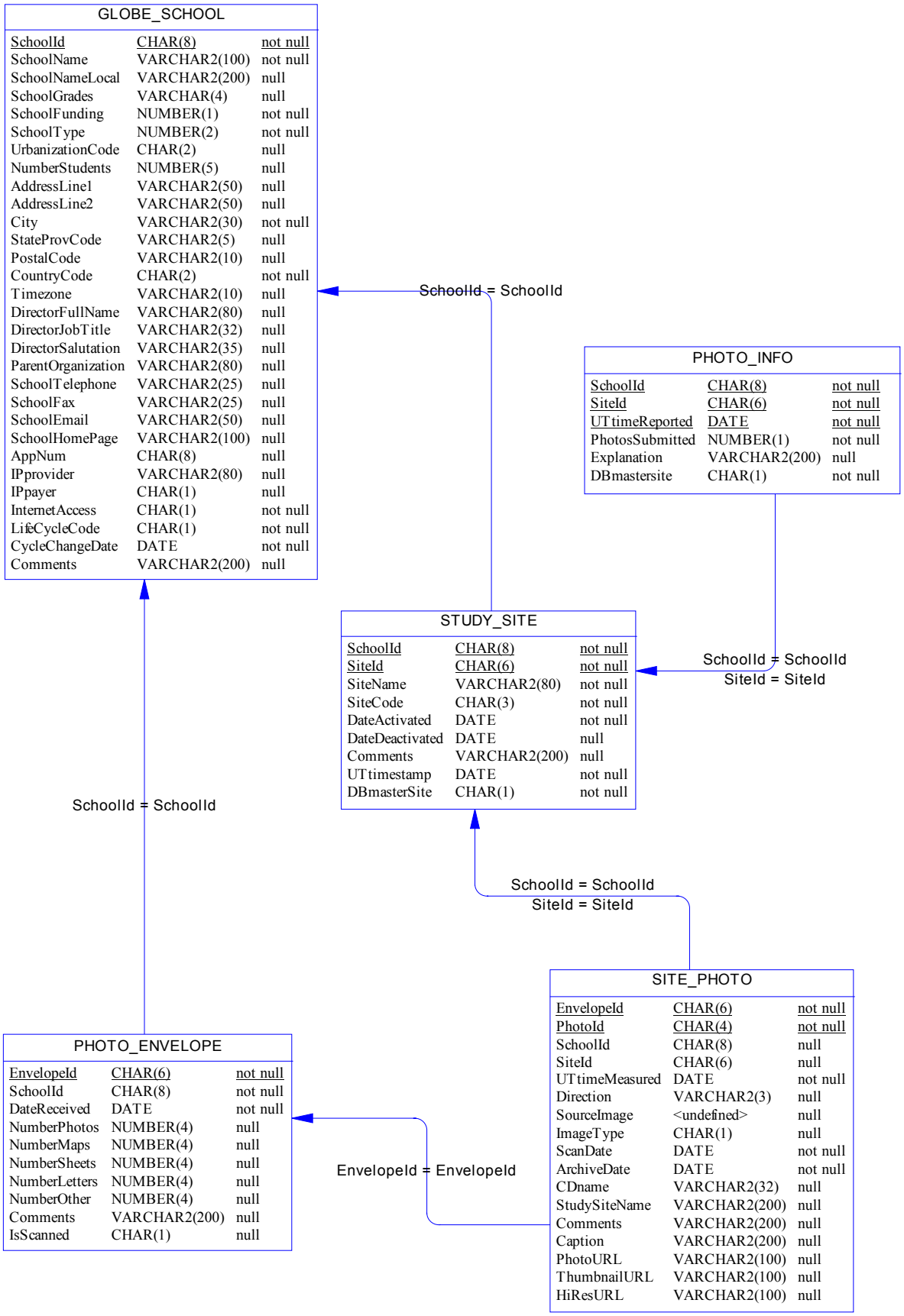
SOILCHAR_SITE_VU1.*
DixonCnt

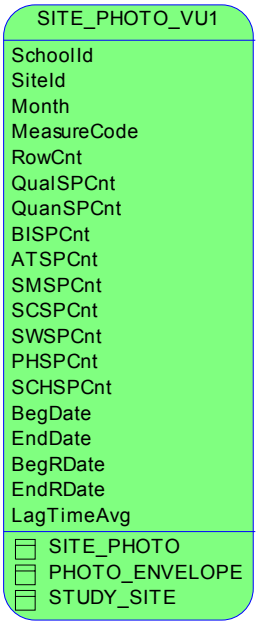
SOILCHAR_SITE_VU1

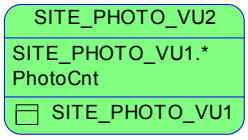
SOILCHAR_SITE_CNT

SchoolId	CHAR(8)	not null
SiteId	CHAR(6)	not null
Month	DATE	not null
MeasureCode	CHAR(2)	not null
RowCnt	INTEGER	not null
DixonCnt	INTEGER	null
SlopeCnt	INTEGER	not null
SSrceCnt	INTEGER	not null
SProxCnt	INTEGER	not null
SParCnt	INTEGER	not null
BegDate	DATE	not null
EndDate	DATE	not null
LagTimeAvg	NUMBER(6,2)	not null

41 Diagram of Site Photographs


GLOBE_SCHOOL
SchoolId CHAR(8) not null
SchoolName VARCHAR2(100) not null
SchoolNameLocal VARCHAR2(200) null
SchoolGrades VARCHAR(4) null
SchoolFunding NUMBER(1) not null
SchoolType NUMBER(2) not null
UrbanizationCode CHAR(2) null
NumberStudents NUMBER(5) null
AddressLine1 VARCHAR2(50) null
AddressLine2 VARCHAR2(50) null
City VARCHAR2(30) not null
StateProvCode VARCHAR2(5) null
PostalCode VARCHAR2(10) null
CountryCode CHAR(2) not null
Timezone VARCHAR2(10) null
DirectorFullName VARCHAR2(80) null
DirectorJobTitle VARCHAR2(32) null
DirectorSalutation VARCHAR2(35) null
ParentOrganization VARCHAR2(80) null
SchoolTelephone VARCHAR2(25) null
SchoolFax VARCHAR2(25) null
SchoolEmail VARCHAR2(50) null
SchoolHomePage VARCHAR2(100) null
AppNum CHAR(8) null
IPprovider VARCHAR2(80) null
IPpayer CHAR(1) null
InternetAccess CHAR(1) not null
LifeCycleCode CHAR(1) not null
CycleChangeDate DATE not null
Comments VARCHAR2(200) null
SchoolId = SchoolId
PHOTO_INFO
SchoolId CHAR(8) not null
SiteId CHAR(6) not null
UTtimeReported DATE not null
PhotosSubmitted NUMBER(1) not null
Explanation VARCHAR2(200) null
DBmastersite CHAR(1) not null
STUDY_SITE
SchoolId CHAR(8) not null
SiteId CHAR(6) not null
SiteName VARCHAR2(80) not null
SiteCode CHAR(3) not null
DateActivated DATE not null
DateDeactivated DATE null
Comments VARCHAR2(200) null
UTtimestamp DATE not null
DBmasterSite CHAR(1) not null
SchoolId = SchoolId
SiteId = SiteId
SchoolId = SchoolId
SchoolId = SchoolId
SiteId = SiteId
SITE_PHOTO
EnvelopeId CHAR(6) not null
PhotoId CHAR(4) not null
SchoolId CHAR(8) null
SiteId CHAR(6) null
UTtimeMeasured DATE not null
Direction VARCHAR2(3) null
SourceImage <undefined> null
ImageType CHAR(1) null
ScanDate DATE not null
ArchiveDate DATE not null
CDname VARCHAR2(32) null
StudySiteName VARCHAR2(200) null
Comments VARCHAR2(200) null
Caption VARCHAR2(200) null
PhotoURL VARCHAR2(100) null
ThumbnailURL VARCHAR2(100) null
HiResURL VARCHAR2(100) null
EnvelopeId = EnvelopeId
PHOTO_ENVELOPE
EnvelopeId CHAR(6) not null
SchoolId CHAR(8) not null
DateReceived DATE not null
NumberPhotos NUMBER(4) null
NumberMaps NUMBER(4) null
NumberSheets NUMBER(4) null
NumberLetters NUMBER(4) null
NumberOther NUMBER(4) null
Comments VARCHAR2(200) null
IsScanned CHAR(1) null

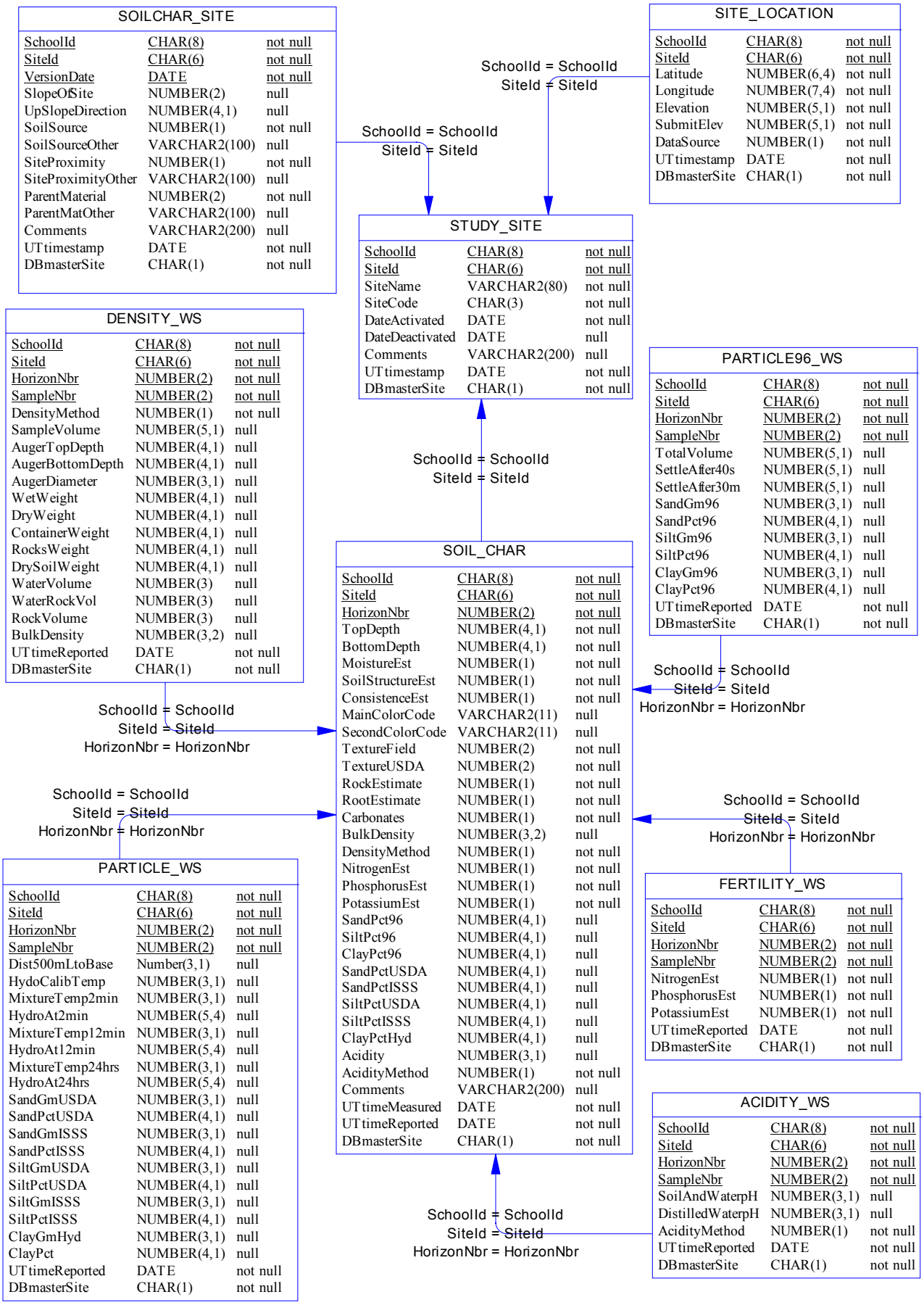

SITE_PHOTO_VU1
SchoolId
SiteId
Month
MeasureCode
RowCnt
QualSPCnt
QuanSPCnt
BISPCnt
ATSPCnt
SMSPCnt
SCSPCnt
SWSPCnt
PHSPCnt
SCHSPCnt
BegDate
EndDate
BegRDate
EndRDate
LagTimeAvg
SITE_PHOTO
PHOTO_ENVELOPE
STUDY_SITE

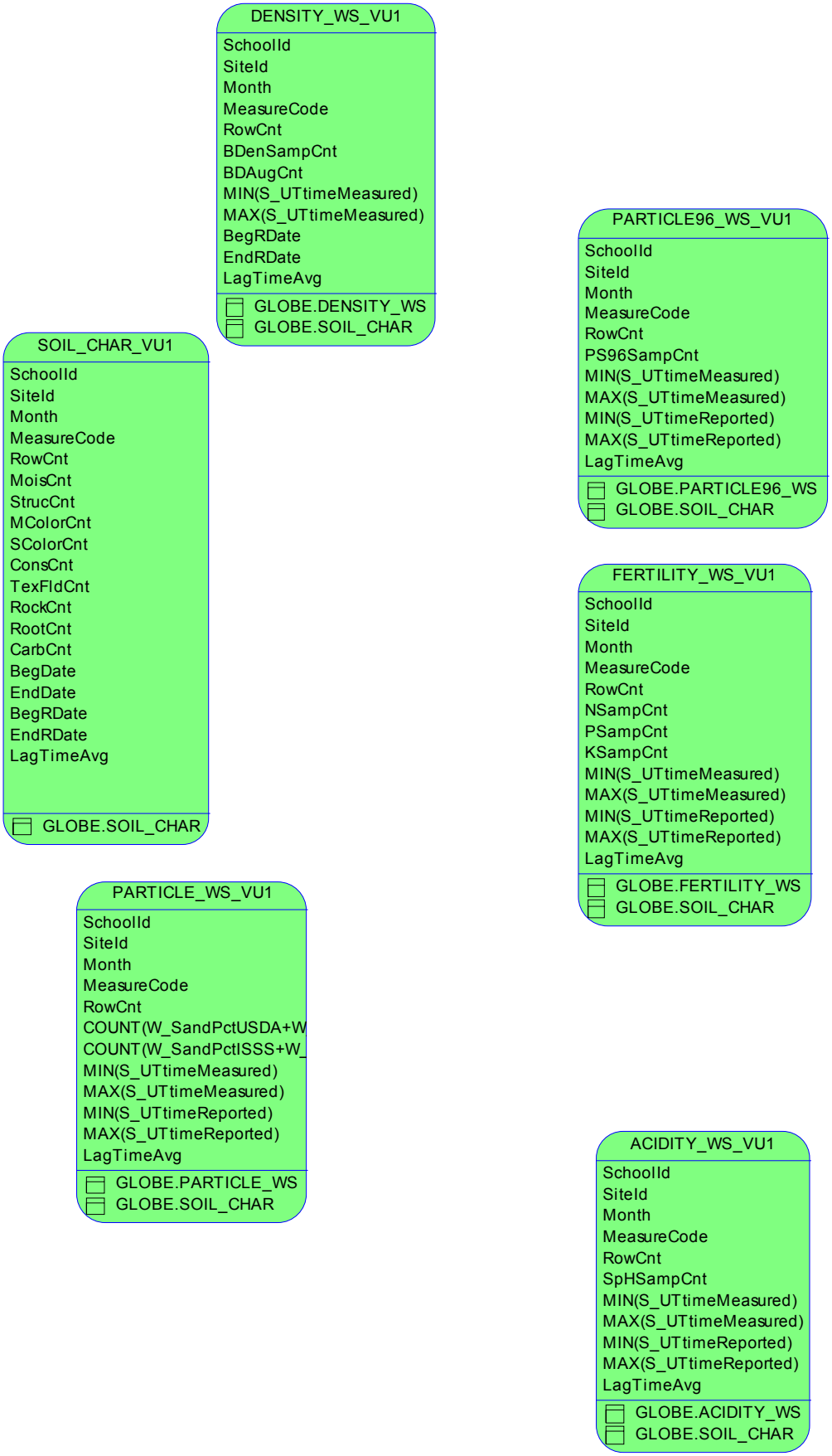


SITE_PHOTO_CNT

SchoolId	CHAR(8)	not null
SiteId	CHAR(6)	not null
Month	DATE	not null
MeasureCode	CHAR(2)	not null
RowCnt	INTEGER	not null
PhotoCnt	INTEGER	not null
QualSPCnt	<undefined>	not null
QuanSPCnt	<undefined>	not null
BISPCnt	<undefined>	not null
ATSPCnt	<undefined>	not null
SMSPCnt	<undefined>	not null
SCSPCnt	<undefined>	not null
SWSPCnt	<undefined>	not null
PHSPCnt	<undefined>	not null
SCHSPCnt	<undefined>	not null
BegDate	DATE	not null
EndDate	DATE	not null
BegRDate	DATE	not null
EndRDate	DATE	not null
LagTimeAvg	NUMBER(6,2)	not null

42 Diagram of Soil Characteristics


SOILCHAR_SITE
SchoolId CHAR(8) not null
SiteId CHAR(6) not null
VersionDate DATE not null
SlopeOfSite NUMBER(2) null
UpSlopeDirection NUMBER(4,1) null
SoilSource NUMBER(1) not null
SoilSourceOther VARCHAR2(100) null
SiteProximity NUMBER(1) not null
SiteProximityOther VARCHAR2(100) null
ParentMaterial NUMBER(2) not null
ParentMatOther VARCHAR2(100) null
Comments VARCHAR2(200) null
UTtimestamp DATE not null
DBmasterSite CHAR(1) not null
SchoolId = SchoolId
SiteId = SiteId
SITE_LOCATION
SchoolId CHAR(8) not null
SiteId CHAR(6) not null
Latitude NUMBER(6,4) not null
Longitude NUMBER(7,4) not null
Elevation NUMBER(5,1) not null
SubmitElev NUMBER(5,1) not null
DataSource NUMBER(1) not null
UTtimestamp DATE not null
DBmasterSite CHAR(1) not null
SchoolId = SchoolId
SiteId = SiteId
STUDY_SITE
SchoolId CHAR(8) not null
SiteId CHAR(6) not null
SiteName VARCHAR2(80) not null
SiteCode CHAR(3) not null
DateActivated DATE not null
DateDeactivated DATE null
Comments VARCHAR2(200) null
UTtimestamp DATE not null
DBmasterSite CHAR(1) not null
DENSITY_WS
SchoolId CHAR(8) not null
SiteId CHAR(6) not null
HorizonNbr NUMBER(2) not null
SampleNbr NUMBER(2) not null
DensityMethod NUMBER(1) not null
SampleVolume NUMBER(5,1) null
AugerTopDepth NUMBER(4,1) null
AugerBottomDepth NUMBER(4,1) null
AugerDiameter NUMBER(3,1) null
WetWeight NUMBER(4,1) null
DryWeight NUMBER(4,1) null
ContainerWeight NUMBER(4,1) null
RocksWeight NUMBER(4,1) null
DrySoilWeight NUMBER(4,1) null
WaterVolume NUMBER(3) null
WaterRockVol NUMBER(3) null
RockVolume NUMBER(3) null
BulkDensity NUMBER(3,2) null
UTtimeReported DATE not null
DBmasterSite CHAR(1) not null
SchoolId = SchoolId
SiteId = SiteId
HorizonNbr = HorizonNbr
PARTICLE96_WS
SchoolId CHAR(8) not null
SiteId CHAR(6) not null
HorizonNbr NUMBER(2) not null
SampleNbr NUMBER(2) not null
TotalVolume NUMBER(5,1) null
SettleAfter40s NUMBER(5,1) null
SettleAfter30m NUMBER(5,1) null
SandGm96 NUMBER(3,1) null
SandPct96 NUMBER(4,1) null
SiltGm96 NUMBER(3,1) null
SiltPct96 NUMBER(4,1) null
ClayGm96 NUMBER(3,1) null
ClayPct96 NUMBER(4,1) null
UTtimeReported DATE not null
DBmasterSite CHAR(1) not null
SchoolId = SchoolId
SiteId = SiteId
HorizonNbr = HorizonNbr
SOIL_CHAR
SchoolId CHAR(8) not null
SiteId CHAR(6) not null
HorizonNbr NUMBER(2) not null
TopDepth NUMBER(4,1) not null
BottomDepth NUMBER(4,1) not null
MoistureEst NUMBER(1) not null
SoilStructureEst NUMBER(1) not null
ConsistenceEst NUMBER(1) not null
MainColorCode VARCHAR2(11) null
SecondColorCode VARCHAR2(11) null
TextureField NUMBER(2) not null
TextureUSDA NUMBER(2) not null
RockEstimate NUMBER(1) not null
RootEstimate NUMBER(1) not null
Carbonates NUMBER(1) not null
BulkDensity NUMBER(3,2) null
DensityMethod NUMBER(1) not null
NitrogenEst NUMBER(1) not null
PhosphorusEst NUMBER(1) not null
PotassiumEst NUMBER(1) not null
SandPct96 NUMBER(4,1) null
SiltPct96 NUMBER(4,1) null
ClayPct96 NUMBER(4,1) null
SandPctUSDA NUMBER(4,1) null
SandPctISSS NUMBER(4,1) null
SiltPctUSDA NUMBER(4,1) null
SiltPctISSS NUMBER(4,1) null
ClayPctHyd NUMBER(4,1) null
Acidity NUMBER(3,1) null
AcidityMethod NUMBER(1) not null
Comments VARCHAR2(200) null
UTtimeMeasured DATE not null
UTtimeReported DATE not null
DBmasterSite CHAR(1) not null
SchoolId = SchoolId
SiteId = SiteId
HorizonNbr = HorizonNbr
PARTICLE_WS
SchoolId CHAR(8) not null
SiteId CHAR(6) not null
HorizonNbr NUMBER(2) not null
SampleNbr NUMBER(2) not null
Dist500mLtoBase Number(3,1) null
HydoCalibTemp NUMBER(3,1) null
MixtureTemp2min NUMBER(3,1) null
HydroAt2min NUMBER(5,4) null
MixtureTemp12min NUMBER(3,1) null
HydroAt12min NUMBER(5,4) null
MixtureTemp24hrs NUMBER(3,1) null
HydroAt24hrs NUMBER(5,4) null
SandGmUSDA NUMBER(3,1) null
SandPctUSDA NUMBER(4,1) null
SandGmISSS NUMBER(3,1) null
SandPctISSS NUMBER(4,1) null
SiltGmUSDA NUMBER(3,1) null
SiltPctUSDA NUMBER(4,1) null
SiltGmISSS NUMBER(3,1) null
SiltPctISSS NUMBER(4,1) null
ClayGmHyd NUMBER(3,1) null
ClayPct NUMBER(4,1) null
UTtimeReported DATE not null
DBmasterSite CHAR(1) not null
SchoolId = SchoolId
SiteId = SiteId
HorizonNbr = HorizonNbr
FERTILITY_WS
SchoolId CHAR(8) not null
SiteId CHAR(6) not null
HorizonNbr NUMBER(2) not null
SampleNbr NUMBER(2) not null
NitrogenEst NUMBER(1) not null
PhosphorusEst NUMBER(1) not null
PotassiumEst NUMBER(1) not null
UTtimeReported DATE not null
DBmasterSite CHAR(1) not null
SchoolId = SchoolId
SiteId = SiteId
HorizonNbr = HorizonNbr
ACIDITY_WS
SchoolId CHAR(8) not null
SiteId CHAR(6) not null
HorizonNbr NUMBER(2) not null
SampleNbr NUMBER(2) not null
SoilAndWaterpH NUMBER(3,1) null
DistilledWaterpH NUMBER(3,1) null
AcidityMethod NUMBER(1) not null
UTtimeReported DATE not null
DBmasterSite CHAR(1) not null


DENSITY_WS_VU1
SchoolId
SiteId
Month
MeasureCode
RowCnt
BDenSampCnt
BDAugCnt
MIN(S_UTtimeMeasured)
MAX(S_UTtimeMeasured)
BegRDate
EndRDate
LagTimeAvg
GLOBE.DENSITY_WS
GLOBE.SOIL_CHAR
PARTICLE96_WS_VU1
SchoolId
SiteId
Month
MeasureCode
RowCnt
PS96SampCnt
MIN(S_UTtimeMeasured)
MAX(S_UTtimeMeasured)
MIN(S_UTtimeReported)
MAX(S_UTtimeReported)
LagTimeAvg
GLOBE.PARTICLE96_WS
GLOBE.SOIL_CHAR
SOIL_CHAR_VU1
SchoolId
SiteId
Month
MeasureCode
RowCnt
MoisCnt
StrucCnt
MColorCnt
SColorCnt
ConsCnt
TexFldCnt
RockCnt
RootCnt
CarbCnt
BegDate
EndDate
BegRDate
EndRDate
LagTimeAvg
GLOBE.SOIL_CHAR
FERTILITY_WS_VU1
SchoolId
SiteId
Month
MeasureCode
RowCnt
NSampCnt
PSampCnt
KSampCnt
MIN(S_UTtimeMeasured)
MAX(S_UTtimeMeasured)
MIN(S_UTtimeReported)
MAX(S_UTtimeReported)
LagTimeAvg
GLOBE.FERTILITY_WS
GLOBE.SOIL_CHAR
PARTICLE_WS_VU1
SchoolId
SiteId
Month
MeasureCode
RowCnt
COUNT(W_SandPctUSDA+W
COUNT(W_SandPctISSS+W_
MIN(S_UTtimeMeasured)
MAX(S_UTtimeMeasured)
MIN(S_UTtimeReported)
MAX(S_UTtimeReported)
LagTimeAvg
GLOBE.PARTICLE_WS
GLOBE.SOIL_CHAR
ACIDITY_WS_VU1
SchoolId
SiteId
Month
MeasureCode
RowCnt
SpHSampCnt
MIN(S_UTtimeMeasured)
MAX(S_UTtimeMeasured)
MIN(S_UTtimeReported)
MAX(S_UTtimeReported)
LagTimeAvg
GLOBE.ACIDITY_WS
GLOBE.SOIL_CHAR

DENSITY_WS_VU2

DENSITY_WS_VU1.*
DixonCnt

DENSITY_WS_VU1

DENSITY_WS_CNT

SchoolId	CHAR(8)	not null
SiteId	CHAR(6)	not null
Month	DATE	not null
MeasureCode	CHAR(2)	not null
RowCnt	INTEGER	not null
DixonCnt	INTEGER	not null
BDenSampCnt	INTEGER	not null
BDAugCnt	INTEGER	not null
BeginDate	DATE	not null
EndDate	DATE	not null
BegRDate	DATE	not null
EndRDate	DATE	not null
LagTimeAvg	NUMBER(6,2)	not null

PARTICLE96_WS_VU2

PARTICLE96_WS_VU1.*
DixonCnt

PARTICLE96_WS_VU1

PARTICLE96_WS_CNT

SchoolId	CHAR(8)	not null
SiteId	CHAR(6)	not null
Month	DATE	not null
MeasureCode	CHAR(2)	not null
RowCcnt	INTEGER	not null
DixonCnt	INTEGER	not null
PS96SampCnt	INTEGER	not null
BegDate	DATE	not null
EndDate	DATE	not null
BegRDate	DATE	not null
EndRDate	DATE	not null
LagTimeAvg	NUMBER(6,2)	not null

SOIL_CHAR_VU2

SOIL_CHAR_VU1.*
DixonCnt

SOIL_CHAR_VU1

SOIL_CHAR_CNT

SchoolId	CHAR(8)	not null
SiteId	CHAR(6)	not null
Month	DATE	not null
MeasureCode	CHAR(2)	not null
RowCnt	INTEGER	not null
DixonCnt	INTEGER	not null
MoisCnt	INTEGER	not null
StrucCnt	INTEGER	not null
MColorCnt	INTEGER	not null
SColorCnt	INTEGER	not null
ConsCnt	INTEGER	not null
TexFldCnt	INTEGER	not null
RockCnt	INTEGER	not null
RootCnt	INTEGER	not null
CarbCnt	INTEGER	not null
BegDate	DATE	not null
EndDate	DATE	not null
BegRDate	DATE	not null
EndRDate	DATE	not null
LagTimeAvg	NUMBER(6,2)	not null

FERTILITY_WS_VU2

FERTILITY_WS_VU1.*
DixonCnt

FERTILITY_WS_VU1

PARTICLE_WS_VU2

PARTICLE_WS_VU1.*
DixonCnt

PARTICLE_WS_VU1

PARTICLE_WS_CNT

SchoolId	CHAR(8)	not null
SiteId	CHAR(6)	not null
Month	DATE	not null
MeasureCode	INTEGER	not null
RowCnt	INTEGER	not null
DixonCnt	INTEGER	not null
PSUSDASampCnt	INTEGER	not null
PSISSSSampCnt	INTEGER	not null
BegDate	DATE	not null
EndDate	DATE	not null
BegRDate	DATE	not null
EndRDate	DATE	not null
LagTimeAvg	NUMBER(6,2)	not null

FERTILITY_WS_CNT

SchoolId	CHAR(8)	not null
SiteId	CHAR(6)	not null
Month	DATE	not null
MeasureCode	CHAR(2)	not null
RowCnt	INTEGER	not null
DixonCnt	INTEGER	not null
NSampCnt	INTEGER	not null
PSampCnt	INTEGER	not null
KSampCnt	INTEGER	not null
BegDate	DATE	not null
EndDate	DATE	not null
BegRDate	DATE	not null
EndRDate	DATE	not null
LagTimeAvg	NUMBER(6,2)	not null

ACIDITY_WS_VU2

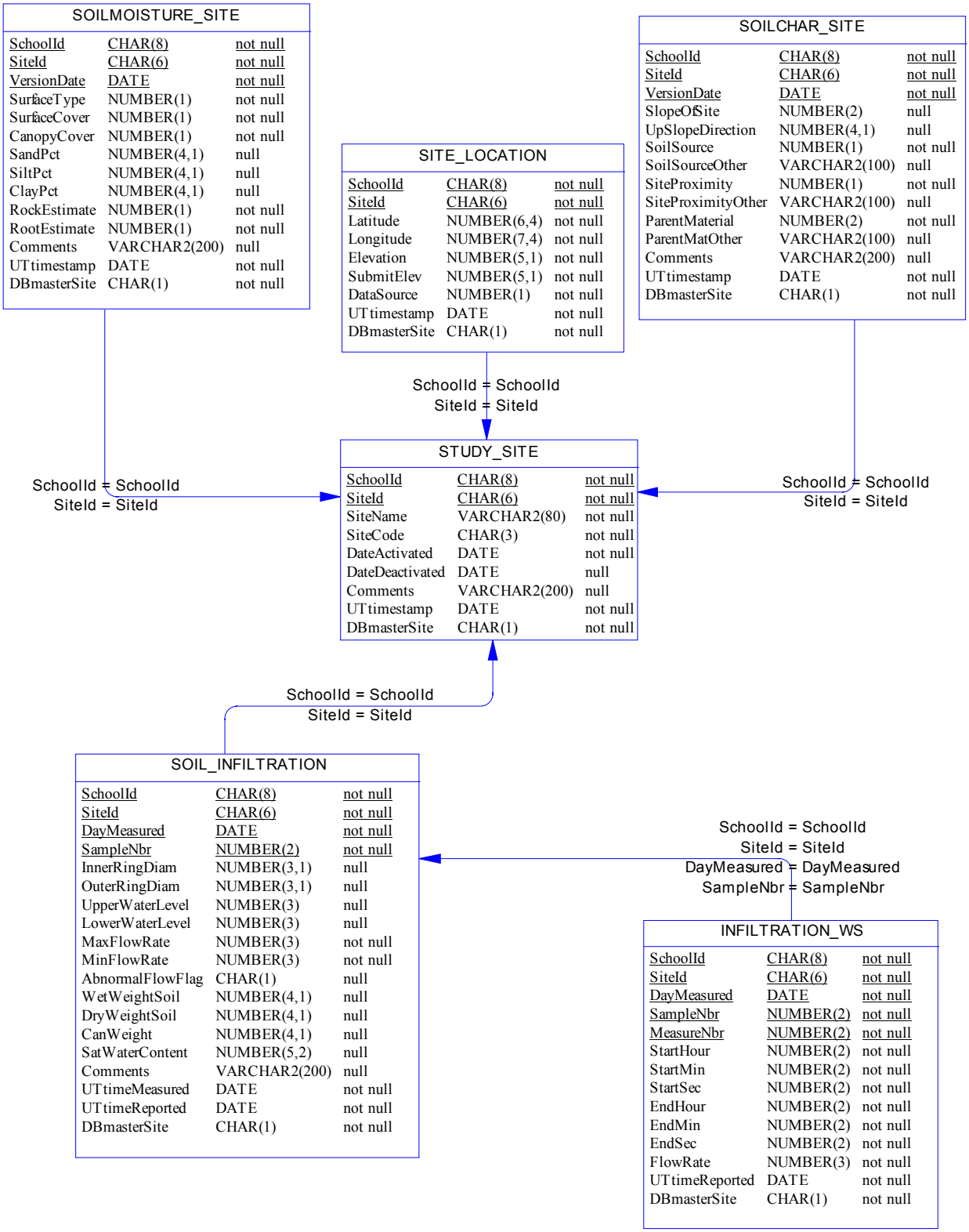
ACIDITY_WS_VU1.*
DixonCnt

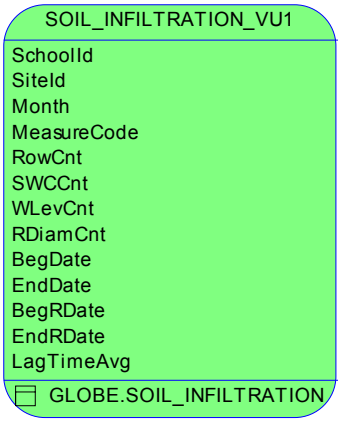
ACIDITY_WS_VU1

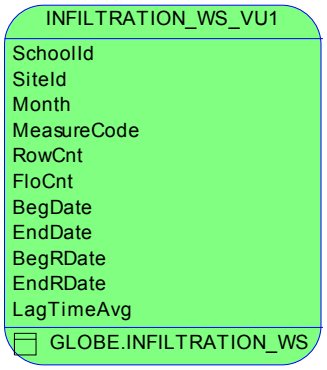
ACIDITY_WS_CNT

SchoolId	CHAR(8)	not null
SiteId	CHAR(6)	not null
Month	DATE	not null
MeasureCode	CHAR(2)	not null
RowCnt	INTEGER	not null
DixonCnt	INTEGER	not null
SpHSampCnt	INTEGER	not null
BegDate	DATE	not null
EndDate	DATE	not null
BegRDate	DATE	not null
EndRDate	DATE	not null
LagTimeAvg	NUMBER(6,2)	not null

43 Diagram of Soil Infiltration


SOILMOISTURE_SITE
SchoolId CHAR(8) not null
SiteId CHAR(6) not null
VersionDate DATE not null
SurfaceType NUMBER(1) not null
SurfaceCover NUMBER(1) not null
CanopyCover NUMBER(1) not null
SandPct NUMBER(4,1) null
SiltPct NUMBER(4,1) null
ClayPct NUMBER(4,1) null
RockEstimate NUMBER(1) not null
RootEstimate NUMBER(1) not null
Comments VARCHAR2(200) null
UTtimestamp DATE not null
DBmasterSite CHAR(1) not null
SITE_LOCATION
SchoolId CHAR(8) not null
SiteId CHAR(6) not null
Latitude NUMBER(6,4) not null
Longitude NUMBER(7,4) not null
Elevation NUMBER(5,1) not null
SubmitElev NUMBER(5,1) not null
DataSource NUMBER(1) not null
UTtimestamp DATE not null
DBmasterSite CHAR(1) not null
SOILCHAR_SITE
SchoolId CHAR(8) not null
SiteId CHAR(6) not null
VersionDate DATE not null
SlopeOfSite NUMBER(2) null
UpSlopeDirection NUMBER(4,1) null
SoilSource NUMBER(1) not null
SoilSourceOther VARCHAR2(100) null
SiteProximity NUMBER(1) not null
SiteProximityOther VARCHAR2(100) null
ParentMaterial NUMBER(2) not null
ParentMatOther VARCHAR2(100) null
Comments VARCHAR2(200) null
UTtimestamp DATE not null
DBmasterSite CHAR(1) not null
SchoolId = SchoolId
SiteId = SiteId
STUDY_SITE
SchoolId CHAR(8) not null
SiteId CHAR(6) not null
SiteName VARCHAR2(80) not null
SiteCode CHAR(3) not null
DateActivated DATE not null
DateDeactivated DATE null
Comments VARCHAR2(200) null
UTtimestamp DATE not null
DBmasterSite CHAR(1) not null
SchoolId = SchoolId
SiteId = SiteId
SchoolId = SchoolId
SiteId = SiteId
SchoolId = SchoolId
SiteId = SiteId
SOIL_INFILTRATION
SchoolId CHAR(8) not null
SiteId CHAR(6) not null
DayMeasured DATE not null
SampleNbr NUMBER(2) not null
InnerRingDiam NUMBER(3,1) null
OuterRingDiam NUMBER(3,1) null
UpperWaterLevel NUMBER(3) null
LowerWaterLevel NUMBER(3) null
MaxFlowRate NUMBER(3) not null
MinFlowRate NUMBER(3) not null
AbnormalFlowFlag CHAR(1) null
WetWeightSoil NUMBER(4,1) null
DryWeightSoil NUMBER(4,1) null
CanWeight NUMBER(4,1) null
SatWaterContent NUMBER(5,2) null
Comments VARCHAR2(200) null
UTtimeMeasured DATE not null
UTtimeReported DATE not null
DBmasterSite CHAR(1) not null
SchoolId = SchoolId
SiteId = SiteId
DayMeasured = DayMeasured
SampleNbr = SampleNbr
INFILTRATION_WS
SchoolId CHAR(8) not null
SiteId CHAR(6) not null
DayMeasured DATE not null
SampleNbr NUMBER(2) not null
MeasureNbr NUMBER(2) not null
StartHour NUMBER(2) not null
StartMin NUMBER(2) not null
StartSec NUMBER(2) not null
EndHour NUMBER(2) not null
EndMin NUMBER(2) not null
EndSec NUMBER(2) not null
FlowRate NUMBER(3) not null
UTtimeReported DATE not null
DBmasterSite CHAR(1) not null


SOIL_INFILTRATION_VU1
SchoolId
SiteId
Month
MeasureCode
RowCnt
SWCCnt
WLevCnt
RDiamCnt
BegDate
EndDate
BegRDate
EndRDate
LagTimeAvg
GLOBE.SOIL_INFILTRATION


INFILTRATION_WS_VU1
SchoolId
SiteId
Month
MeasureCode
RowCnt
FloCnt
BegDate
EndDate
BegRDate
EndRDate
LagTimeAvg
GLOBE.INFILTRATION_WS

SOIL_INFILTRATION_VU2

SOIL_INFILTRATION_VU1.*
DixonCnt

SOIL_INFILTRATION_VU1

SOIL_INFILTRATION_CNT

SchoolId	CHAR(8)	not null
SiteId	CHAR(6)	not null
Month	DATE	not null
MeasureCode	CHAR(2)	not null
RowCnt	INTEGER	not null
DixonCnt	INTEGER	null
SWCCnt	INTEGER	null
WLevCnt	INTEGER	null
RDiamcnt	INTEGER	null
BegDate	DATE	not null
EndDate	DATE	not null
BegRDate	DATE	not null
EndRDate	DATE	not null
LagTimeAvg	NUMBER(6,2)	not null

INFILTRATION_WS_VU2

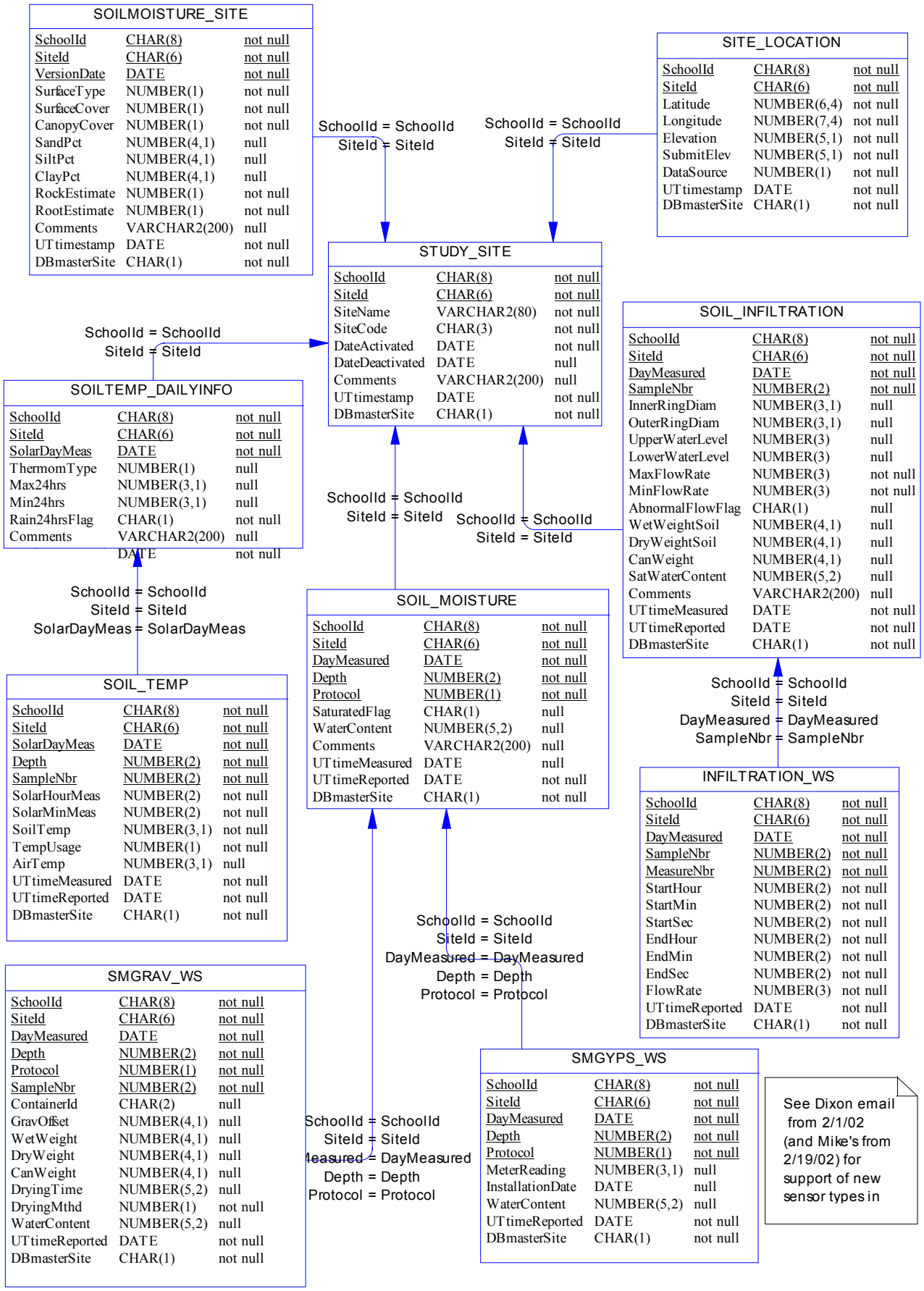
INFILTRATION_WS_VU1.*
DixonCnt

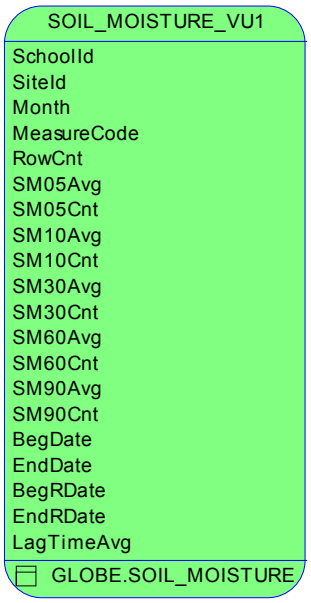
INFILTRATION_WS_VU1

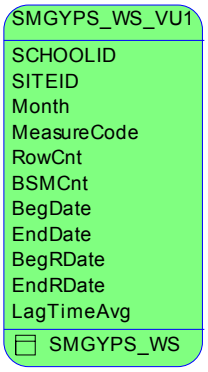
INFILTRATION_WS_CNT

SchoolId	CHAR(8)	not null
SiteId	CHAR(6)	not null
Month	DATE	not null
MeasureCode	CHAR(2)	not null
RowCnt	NUMBER	not null
DixonCnt	INTEGER	not null
FloCnt	NUMBER	not null
BegDate	DATE	not null
EndDate	DATE	not null
BegRDate	DATE	null
EndRDate	DATE	null
LagTimeAvg	NUMBER(6,2)	not null

44 Diagram of Soil Moisture


SOILMOISTURE_SITE
SchoolId CHAR(8) not null
SiteId CHAR(6) not null
VersionDate DATE not null
SurfaceType NUMBER(1) not null
SurfaceCover NUMBER(1) not null
CanopyCover NUMBER(1) not null
SandPct NUMBER(4,1) null
SiltPct NUMBER(4,1) null
ClayPct NUMBER(4,1) null
RockEstimate NUMBER(1) not null
RootEstimate NUMBER(1) not null
Comments VARCHAR2(200) null
UTtimestamp DATE not null
DBmasterSite CHAR(1) not null
SchoolId = SchoolId
SiteId = SiteId
SchoolId = SchoolId
SiteId = SiteId
SITE_LOCATION
SchoolId CHAR(8) not null
SiteId CHAR(6) not null
Latitude NUMBER(6,4) not null
Longitude NUMBER(7,4) not null
Elevation NUMBER(5,1) not null
SubmitElev NUMBER(5,1) not null
DataSource NUMBER(1) not null
UTtimestamp DATE not null
DBmasterSite CHAR(1) not null
STUDY_SITE
SchoolId CHAR(8) not null
SiteId CHAR(6) not null
SiteName VARCHAR2(80) not null
SiteCode CHAR(3) not null
DateActivated DATE not null
DateDeactivated DATE null
Comments VARCHAR2(200) null
UTtimestamp DATE not null
DBmasterSite CHAR(1) not null
SchoolId = SchoolId
SiteId = SiteId
SOILTEMP_DAILYINFO
SchoolId CHAR(8) not null
SiteId CHAR(6) not null
SolarDayMeas DATE not null
ThermomType NUMBER(1) null
Max24hrs NUMBER(3,1) null
Min24hrs NUMBER(3,1) null
Rain24hrsFlag CHAR(1) not null
Comments VARCHAR2(200) null
DATE not null
SOIL_INFILTRATION
SchoolId CHAR(8) not null
SiteId CHAR(6) not null
DayMeasured DATE not null
SampleNbr NUMBER(2) not null
InnerRingDiam NUMBER(3,1) null
OuterRingDiam NUMBER(3,1) null
UpperWaterLevel NUMBER(3) null
LowerWaterLevel NUMBER(3) null
MaxFlowRate NUMBER(3) not null
MinFlowRate NUMBER(3) not null
AbnormalFlowFlag CHAR(1) null
WetWeightSoil NUMBER(4,1) null
DryWeightSoil NUMBER(4,1) null
CanWeight NUMBER(4,1) null
SatWaterContent NUMBER(5,2) null
Comments VARCHAR2(200) null
UTtimeMeasured DATE not null
UTtimeReported DATE not null
DBmasterSite CHAR(1) not null
SchoolId = SchoolId
SiteId = SiteId
SchoolId = SchoolId
SiteId = SiteId
SchoolId = SchoolId
SiteId = SiteId
SolarDayMeas = SolarDayMeas
SOIL_MOISTURE
SchoolId CHAR(8) not null
SiteId CHAR(6) not null
DayMeasured DATE not null
Depth NUMBER(2) not null
Protocol NUMBER(1) not null
SaturatedFlag CHAR(1) null
WaterContent NUMBER(5,2) null
Comments VARCHAR2(200) null
UTtimeMeasured DATE null
UTtimeReported DATE not null
DBmasterSite CHAR(1) not null
SchoolId = SchoolId
SiteId = SiteId
DayMeasured = DayMeasured
SampleNbr = SampleNbr
SOIL_TEMP
SchoolId CHAR(8) not null
SiteId CHAR(6) not null
SolarDayMeas DATE not null
Depth NUMBER(2) not null
SampleNbr NUMBER(2) not null
SolarHourMeas NUMBER(2) not null
SolarMinMeas NUMBER(2) not null
SoilTemp NUMBER(3,1) not null
TempUsage NUMBER(1) not null
AirTemp NUMBER(3,1) null
UTtimeMeasured DATE not null
UTtimeReported DATE not null
DBmasterSite CHAR(1) not null
INFILTRATION_WS
SchoolId CHAR(8) not null
SiteId CHAR(6) not null
DayMeasured DATE not null
SampleNbr NUMBER(2) not null
MeasureNbr NUMBER(2) not null
StartHour NUMBER(2) not null
StartMin NUMBER(2) not null
StartSec NUMBER(2) not null
EndHour NUMBER(2) not null
EndMin NUMBER(2) not null
EndSec NUMBER(2) not null
FlowRate NUMBER(3) not null
UTtimeReported DATE not null
DBmasterSite CHAR(1) not null
SchoolId = SchoolId
SiteId = SiteId
DayMeasured = DayMeasured
Depth = Depth
Protocol = Protocol
SMGRAV_WS
SchoolId CHAR(8) not null
SiteId CHAR(6) not null
DayMeasured DATE not null
Depth NUMBER(2) not null
Protocol NUMBER(1) not null
SampleNbr NUMBER(2) not null
ContainerId CHAR(2) null
GravOffset NUMBER(4,1) null
WetWeight NUMBER(4,1) null
DryWeight NUMBER(4,1) null
CanWeight NUMBER(4,1) null
DryingTime NUMBER(5,2) null
DryingMthd NUMBER(1) not null
WaterContent NUMBER(5,2) null
UTtimeReported DATE not null
DBmasterSite CHAR(1) not null
SchoolId = SchoolId
SiteId = SiteId
DayMeasured = DayMeasured
Depth = Depth
Protocol = Protocol
SMGYPS_WS
SchoolId CHAR(8) not null
SiteId CHAR(6) not null
DayMeasured DATE not null
Depth NUMBER(2) not null
Protocol NUMBER(1) not null
MeterReading NUMBER(3,1) null
InstallationDate DATE null
WaterContent NUMBER(5,2) null
UTtimeReported DATE not null
DBmasterSite CHAR(1) not null
See Dixon email from 2/1/02 (and Mike's from 2/19/02) for support of new sensor types in


SOIL_MOISTURE_VU1
SchoolId
SiteId
Month
MeasureCode
RowCnt
SM05Avg
SM05Cnt
SM10Avg
SM10Cnt
SM30Avg
SM30Cnt
SM60Avg
SM60Cnt
SM90Avg
SM90Cnt
BegDate
EndDate
BegRDate
EndRDate
LagTimeAvg
GLOBE.SOIL_MOISTURE


SMGYPS_WS_VU1
SCHOOLID
SITEID
Month
MeasureCode
RowCnt
BSMCnt
BegDate
EndDate
BegRDate
EndRDate
LagTimeAvg
SMGYPS_WS

SMGRAV_WS_VU1
SchoolId
SiteId
Month
MeasureCode
RowCnt
GWCCnt
BegDate
EndDate
BegRDate
EndRDate
LagTimeAvg
GLOBE.SMGRAV_WS

SOIL_MOISTURE_CNT

SchoolId	CHAR(8)	not null
SiteId	CHAR(6)	not null
Month	DATE	not null
MeasureCode	CHAR(2)	not null
RowCnt	INTEGER	not null
SM05Avg	NUMBER(5,2)	null
SM05Cnt	INTEGER	null
SM10Avg	NUMBER(5,2)	null
SM10Cnt	INTEGER	null
SM30Avg	NUMBER(5,2)	null
SM30Cnt	INTEGER	null
SM60Avg	NUMBER(5,2)	null
SM60Cnt	INTEGER	null
SM90Avg	NUMBER(5,2)	null
SM90Cnt	INTEGER	null
BegDate	DATE	not null
EndDate	DATE	not null
BegRDate	DATE	not null
EndRDate	DATE	not null
LagTimeAvg	NUMBER(6,2)	not null

SMGYPS_WS_VU2

SMGYPS_WS_VU1.*
DixonCnt

SMGYPS_WS_VU1

SMGYPS_WS_CNT

SchoolId	CHAR(8)	not null
siteId	CHAR(6)	not null
Month	DATE	not null
MeasureCode	CHAR(2)	not null
RowCnt	INTEGER	not null
DixonCnt	INTEGER	null
BSMCnt	INTEGER	null
BegDate	DATE	not null
EndDate	DATE	not null
BegRDate	DATE	not null
EndRDate	DATE	not null
LagTimeAvg	NUMBER(6,2)	not null

SMGRAV_WS_VU2

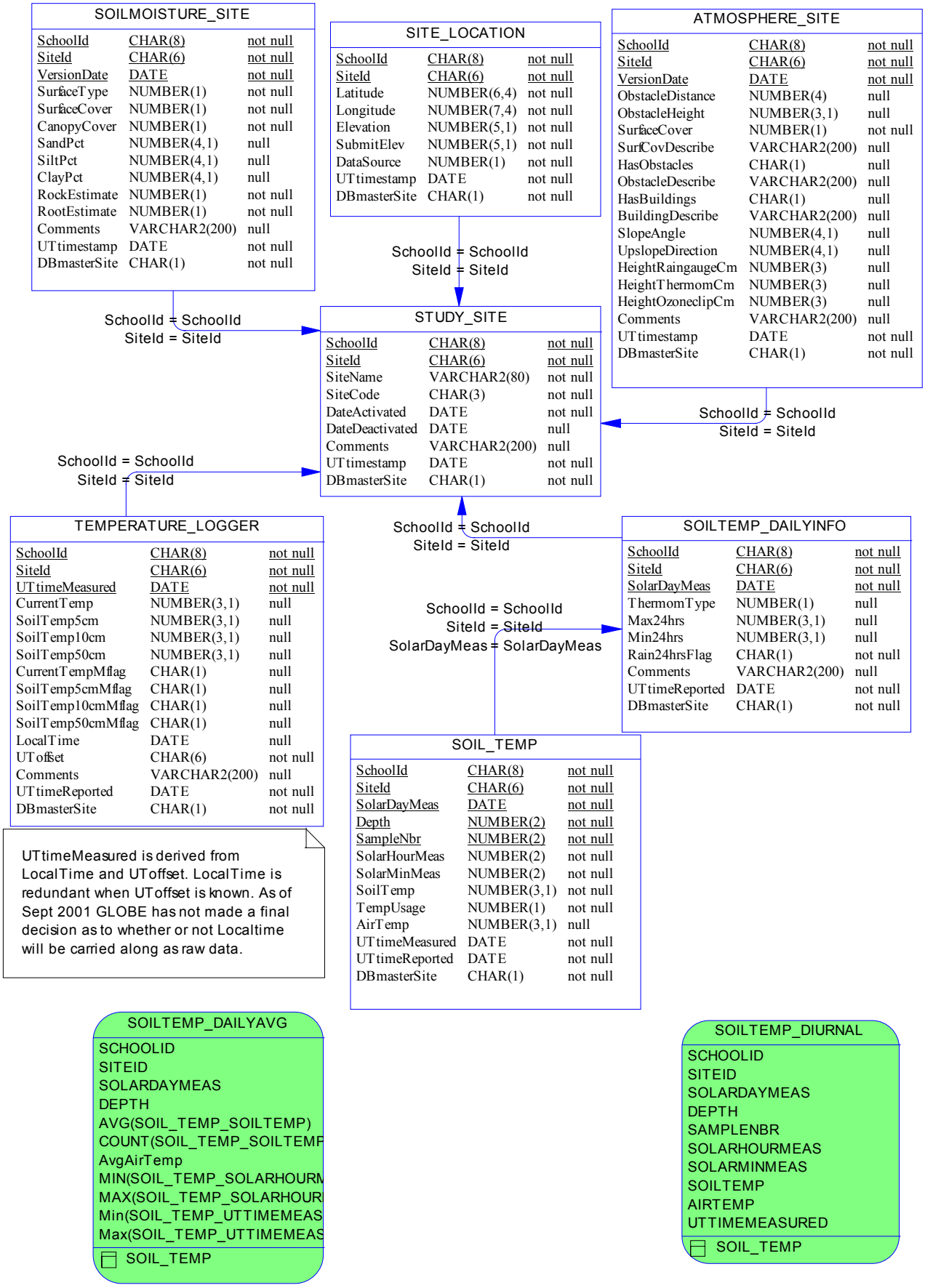
SMGRAV_WS_VU1.*
DixonCnt

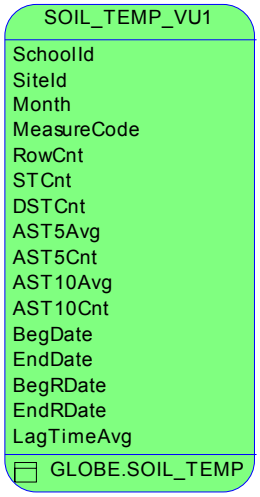
SMGRAV_WS_VU1

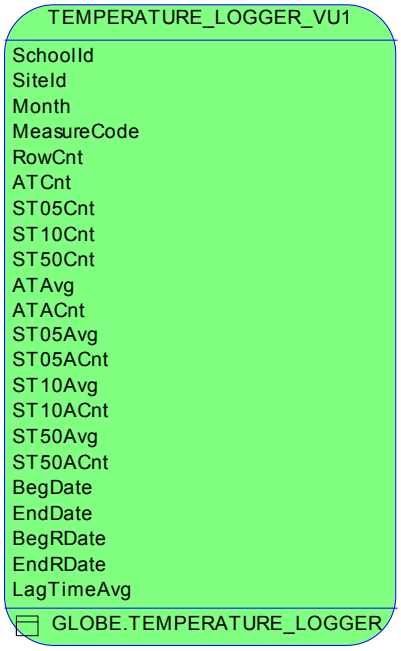
SMGRAV_WS_CNT

SchoolId	CHAR(8)	not null
SiteId	CHAR(6)	not null
Month	DATE	not null
MeasureCode	CHAR(2)	not null
RowCnt	INTEGER	not null
DixonCnt	INTEGER	null
GWCCnt	INTEGER	null
BegDate	DATE	not null
EndDate	DATE	not null
BegRDate	DATE	not null
EndRDate	DATE	not null
LagTimeAvg	NUMBER(6,2)	not null

45 Diagram of Soil Temperature


SOILMOISTURE_SITE
SchoolId CHAR(8) not null
SiteId CHAR(6) not null
VersionDate DATE not null
SurfaceType NUMBER(1) not null
SurfaceCover NUMBER(1) not null
CanopyCover NUMBER(1) not null
SandPct NUMBER(4,1) null
SiltPct NUMBER(4,1) null
ClayPct NUMBER(4,1) null
RockEstimate NUMBER(1) not null
RootEstimate NUMBER(1) not null
Comments VARCHAR2(200) null
UTtimestamp DATE not null
DBmasterSite CHAR(1) not null
SITE_LOCATION
SchoolId CHAR(8) not null
SiteId CHAR(6) not null
Latitude NUMBER(6,4) not null
Longitude NUMBER(7,4) not null
Elevation NUMBER(5,1) not null
SubmitElev NUMBER(5,1) not null
DataSource NUMBER(1) not null
UTtimestamp DATE not null
DBmasterSite CHAR(1) not null
ATMOSPHERE_SITE
SchoolId CHAR(8) not null
SiteId CHAR(6) not null
VersionDate DATE not null
ObstacleDistance NUMBER(4) null
ObstacleHeight NUMBER(3,1) null
SurfaceCover NUMBER(1) not null
SurfCovDescribe VARCHAR2(200) null
HasObstacles CHAR(1) null
ObstacleDescribe VARCHAR2(200) null
HasBuildings CHAR(1) null
BuildingDescribe VARCHAR2(200) null
SlopeAngle NUMBER(4,1) null
UpslopeDirection NUMBER(4,1) null
HeightRaingaugeCm NUMBER(3) null
HeightThermomCm NUMBER(3) null
HeightOzoneclipCm NUMBER(3) null
Comments VARCHAR2(200) null
UTtimestamp DATE not null
DBmasterSite CHAR(1) not null
SchoolId = SchoolId
SiteId = SiteId
SchoolId = SchoolId
SiteId = SiteId
STUDY_SITE
SchoolId CHAR(8) not null
SiteId CHAR(6) not null
SiteName VARCHAR2(80) not null
SiteCode CHAR(3) not null
DateActivated DATE not null
DateDeactivated DATE null
Comments VARCHAR2(200) null
UTtimestamp DATE not null
DBmasterSite CHAR(1) not null
SchoolId = SchoolId
SiteId = SiteId
SchoolId = SchoolId
SiteId = SiteId
SchoolId = SchoolId
SiteId = SiteId
TEMPERATURE_LOGGER
SchoolId CHAR(8) not null
SiteId CHAR(6) not null
UTtimeMeasured DATE not null
CurrentTemp NUMBER(3,1) null
SoilTemp5cm NUMBER(3,1) null
SoilTemp10cm NUMBER(3,1) null
SoilTemp50cm NUMBER(3,1) null
CurrentTempMflag CHAR(1) null
SoilTemp5cmMflag CHAR(1) null
SoilTemp10cmMflag CHAR(1) null
SoilTemp50cmMflag CHAR(1) null
LocalTime DATE null
UToffset CHAR(6) not null
Comments VARCHAR2(200) null
UTtimeReported DATE not null
DBmasterSite CHAR(1) not null
SOILTEMP_DAILYINFO
SchoolId CHAR(8) not null
SiteId CHAR(6) not null
SolarDayMeas DATE not null
ThermomType NUMBER(1) null
Max24hrs NUMBER(3,1) null
Min24hrs NUMBER(3,1) null
Rain24hrsFlag CHAR(1) not null
Comments VARCHAR2(200) null
UTtimeReported DATE not null
DBmasterSite CHAR(1) not null
SchoolId = SchoolId
SiteId = SiteId
SolarDayMeas = SolarDayMeas
UTtimeMeasured is derived from LocalTime and UToffset. LocalTime is redundant when UToffset is known. As of Sept 2001 GLOBE has not made a final decision as to whether or not Localtime will be carried along as raw data.
SOIL_TEMP
SchoolId CHAR(8) not null
SiteId CHAR(6) not null
SolarDayMeas DATE not null
Depth NUMBER(2) not null
SampleNbr NUMBER(2) not null
SolarHourMeas NUMBER(2) not null
SolarMinMeas NUMBER(2) not null
SoilTemp NUMBER(3,1) not null
TempUsage NUMBER(1) not null
AirTemp NUMBER(3,1) null
UTtimeMeasured DATE not null
UTtimeReported DATE not null
DBmasterSite CHAR(1) not null
SOILTEMP_DAILYAVG
SCHOOLID
SITEID
SOLARDAYMEAS
DEPTH
AVG(SOIL_TEMP_SOILTEMP)
COUNT(SOIL_TEMP_SOILTEMP
AvgAirTemp
MIN(SOIL_TEMP_SOLARHOURM
MAX(SOIL_TEMP_SOLARHOUR
Min(SOIL_TEMP_UTTIMEMEAS
Max(SOIL_TEMP_UTTIMEMEAS
SOIL_TEMP
SOILTEMP_DIURNAL
SCHOOLID
SITEID
SOLARDAYMEAS
DEPTH
SAMPLENBR
SOLARHOURMEAS
SOLARMINMEAS
SOILTEMP
AIRTEMP
UTTIMEMEASURED
SOIL_TEMP


SOIL_TEMP_VU1
SchoolId
SiteId
Month
MeasureCode
RowCnt
STCnt
DSTCnt
AST5Avg
AST5Cnt
AST10Avg
AST10Cnt
BegDate
EndDate
BegRDate
EndRDate
LagTimeAvg
GLOBE.SOIL_TEMP


TEMPERATURE_LOGGER_VU1
SchoolId
SiteId
Month
MeasureCode
RowCnt
ATCnt
ST05Cnt
ST10Cnt
ST50Cnt
ATAvg
ATACnt
ST05Avg
ST05ACnt
ST10Avg
ST10ACnt
ST50Avg
ST50ACnt
BegDate
EndDate
BegRDate
EndRDate
LagTimeAvg
GLOBE.TEMPERATURE_LOGGER

SOIL_TEMP_VU2

SOIL_TEMP_VU1.*
DixonCnt

SOIL_TEMP_VU1

SOIL_TEMP_CNT

SchoolId	CHAR(8)	not null
SiteId	CHAR(6)	not null
Month	DATE	not null
MeasureCode	CHAR(2)	not null
RowCnt	INTEGER	not null
DixonCnt	INTEGER	not null
STCnt	INTEGER	not null
DSTCnt	INTEGER	not null
AST5Avg	NUMBER(3,1)	null
AST5Cnt	INTEGER	not null
AST10Avg	NUMBER(3,1)	null
AST10Cnt	INTEGER	not null
BegDate	DATE	not null
EndDate	DATE	not null
BegRDate	DATE	not null
EndRDate	DATE	not null
LagTimeAvg	NUMBER(6,2)	not null

TEMPERATURE_LOGGER_VU2

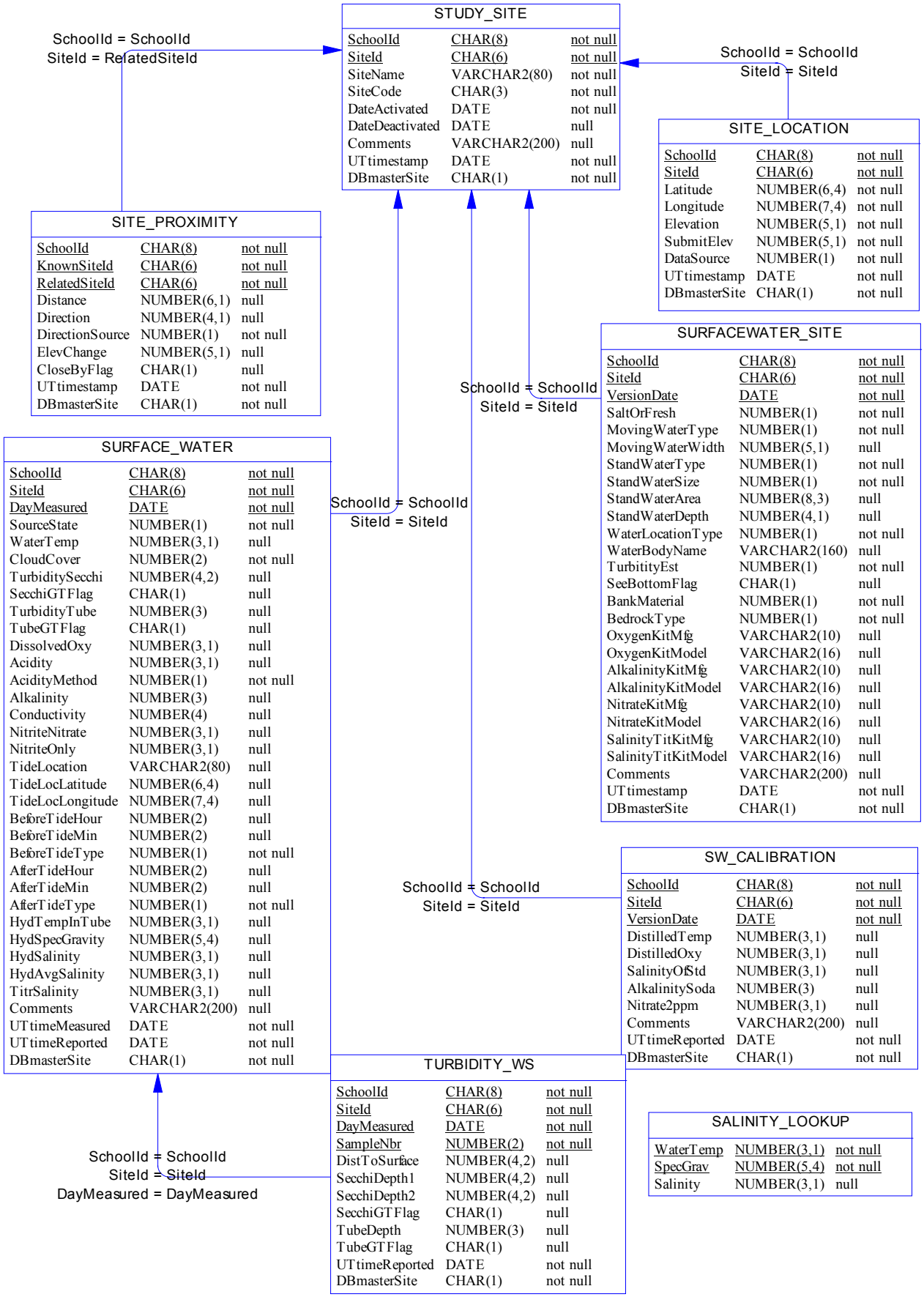
TEMPERATURE_LOGGER_VU1.*
dixoncnt

TEMPERATURE_LOGGER_VU1

TEMPERATURE_LOGGER_CNT

SchoolId	CHAR(8)	not null
SiteId	CHAR(6)	not null
Month	DATE	not null
MeasureCode	CHAR(2)	not null
RowCnt	Integer	not null
DixonCnt	Integer	not null
ATCnt	Integer	not null
ST05Cnt	Integer	not null
ST10Cnt	Integer	not null
ST50Cnt	Integer	not null
ATAvg	NUMBER(3,1)	null
ATACnt	Integer	not null
ST05Avg	NUMBER(3,1)	null
ST05ACnt	Integer	not null
ST10Avg	NUMBER(3,1)	null
ST10ACnt	Integer	not null
ST50Avg	NUMBER(3,1)	null
ST50ACnt	Integer	not null
BegDate	DATE	not null
EndDate	DATE	not null
BegRDate	DATE	not null
EndRDate	DATE	not null
LagTimeAvg	Number(6,2)	not null

46 Diagram of Surface Water


STUDY_SITE
SchoolId CHAR(8) not null
SiteId CHAR(6) not null
SiteName VARCHAR2(80) not null
SiteCode CHAR(3) not null
DateActivated DATE not null
DateDeactivated DATE null
Comments VARCHAR2(200) null
UTtimestamp DATE not null
DBmasterSite CHAR(1) not null
SchoolId = SchoolId
SiteId = RelatedSiteId
SchoolId = SchoolId
SiteId = SiteId
SITE_LOCATION
SchoolId CHAR(8) not null
SiteId CHAR(6) not null
Latitude NUMBER(6,4) not null
Longitude NUMBER(7,4) not null
Elevation NUMBER(5,1) not null
SubmitElev NUMBER(5,1) not null
DataSource NUMBER(1) not null
UTtimestamp DATE not null
DBmasterSite CHAR(1) not null
SITE_PROXIMITY
SchoolId CHAR(8) not null
KnownSiteId CHAR(6) not null
RelatedSiteId CHAR(6) not null
Distance NUMBER(6,1) null
Direction NUMBER(4,1) null
DirectionSource NUMBER(1) not null
ElevChange NUMBER(5,1) null
CloseByFlag CHAR(1) null
UTtimestamp DATE not null
DBmasterSite CHAR(1) not null
SURFACEWATER_SITE
SchoolId CHAR(8) not null
SiteId CHAR(6) not null
VersionDate DATE not null
SaltOrFresh NUMBER(1) not null
MovingWaterType NUMBER(1) not null
MovingWaterWidth NUMBER(5,1) null
StandWaterType NUMBER(1) not null
StandWaterSize NUMBER(1) not null
StandWaterArea NUMBER(8,3) null
StandWaterDepth NUMBER(4,1) null
WaterLocationType NUMBER(1) not null
WaterBodyName VARCHAR2(160) null
TurbitityEst NUMBER(1) not null
SeeBottomFlag CHAR(1) null
BankMaterial NUMBER(1) not null
BedrockType NUMBER(1) not null
OxygenKitMfg VARCHAR2(10) null
OxygenKitModel VARCHAR2(16) null
AlkalinityKitMfg VARCHAR2(10) null
AlkalinityKitModel VARCHAR2(16) null
NitrateKitMfg VARCHAR2(10) null
NitrateKitModel VARCHAR2(16) null
SalinityTitKitMfg VARCHAR2(10) null
SalinityTitKitModel VARCHAR2(16) null
Comments VARCHAR2(200) null
UTtimestamp DATE not null
DBmasterSite CHAR(1) not null
SchoolId = SchoolId
SiteId = SiteId
SURFACE_WATER
SchoolId CHAR(8) not null
SiteId CHAR(6) not null
DayMeasured DATE not null
SourceState NUMBER(1) not null
WaterTemp NUMBER(3,1) null
CloudCover NUMBER(2) not null
TurbiditySecchi NUMBER(4,2) null
SecchiGTFlag CHAR(1) null
TurbidityTube NUMBER(3) null
TubeGTFlag CHAR(1) null
DissolvedOxy NUMBER(3,1) null
Acidity NUMBER(3,1) null
AcidityMethod NUMBER(1) not null
Alkalinity NUMBER(3) null
Conductivity NUMBER(4) null
NitriteNitrate NUMBER(3,1) null
NitriteOnly NUMBER(3,1) null
TideLocation VARCHAR2(80) null
TideLocLatitude NUMBER(6,4) null
TideLocLongitude NUMBER(7,4) null
BeforeTideHour NUMBER(2) null
BeforeTideMin NUMBER(2) null
BeforeTideType NUMBER(1) not null
AfterTideHour NUMBER(2) null
AfterTideMin NUMBER(2) null
AfterTideType NUMBER(1) not null
HydTempInTube NUMBER(3,1) null
HydSpecGravity NUMBER(5,4) null
HydSalinity NUMBER(3,1) null
HydAvgSalinity NUMBER(3,1) null
TitrSalinity NUMBER(3,1) null
Comments VARCHAR2(200) null
UTtimeMeasured DATE not null
UTtimeReported DATE not null
DBmasterSite CHAR(1) not null
SchoolId = SchoolId
SiteId = SiteId
SW_CALIBRATION
SchoolId CHAR(8) not null
SiteId CHAR(6) not null
VersionDate DATE not null
DistilledTemp NUMBER(3,1) null
DistilledOxy NUMBER(3,1) null
SalinityOfStd NUMBER(3,1) null
AlkalinitySoda NUMBER(3) null
Nitrate2ppm NUMBER(3,1) null
Comments VARCHAR2(200) null
UTtimeReported DATE not null
DBmasterSite CHAR(1) not null
TURBIDITY_WS
SchoolId CHAR(8) not null
SiteId CHAR(6) not null
DayMeasured DATE not null
SampleNbr NUMBER(2) not null
DistToSurface NUMBER(4,2) null
SecchiDepth1 NUMBER(4,2) null
SecchiDepth2 NUMBER(4,2) null
SecchiGTFlag CHAR(1) null
TubeDepth NUMBER(3) null
TubeGTFlag CHAR(1) null
UTtimeReported DATE not null
DBmasterSite CHAR(1) not null
SchoolId = SchoolId
SiteId = SiteId
DayMeasured = DayMeasured
SALINITY_LOOKUP
WaterTemp NUMBER(3,1) not null
SpecGrav NUMBER(5,4) not null
Salinity NUMBER(3,1) null

SURFACE_WATER_VU1

SchoolId
SiteId
Month
MeasureCode
RowCnt
WTempCnt
WpHCnt
ConCnt
AlkCnt
OxyCnt
HydAvgSalCnt
TitrSalCnt
NitNitCnt
NitOnlyCnt
CloudCnt
TideCnt
WaterTAvg
WTempMin
WTempMax
WTempStd
WpHAvg
WpHMin
WpHMax
WpHStd
ConAvg
AlkAvg
OxyAvg
HASalAvg
TSalAvg
SecchiAvg
TubeAvg
NO3Avg
NO3Cnt
BegDate
EndDate
BegRDate
EndRDate
LagTimeAvg

GLOBE.SURFACE_WATER

SURFACE_WATER_CNT

SchoolId	CHAR(8)	not null
SiteId	CHAR(6)	not null
Month	DATE	not null
MeasureCode	CHAR(2)	not null
RowCnt	INTEGER	not null
DixonCnt	INTEGER	not null
WTempCnt	INTEGER	not null
WpHCnt	INTEGER	not null
ConCnt	INTEGER	not null
AlkCnt	INTEGER	not null
OxyCnt	INTEGER	not null
HydAvgSalCnt	INTEGER	not null
TitrSalCnt	INTEGER	not null
NitNitCnt	INTEGER	not null
NitOnlyCnt	INTEGER	not null
CloudCnt	INTEGER	not null
Tidecnt	INTEGER	not null
WaterTAvg	NUMBER(3,1)	null
WTempMin	NUMBER(3,1)	null
WTempMax	NUMBER(3,1)	null
WTempStd	NUMBER(2,1)	null
WpHAvg	NUMBER(3,1)	null
WpHMin	NUMBER(3,1)	null
WpHMax	NUMBER(3,1)	null
WpHStd	NUMBER(2,1)	null
ConAvg	NUMBER(4)	null
AlkAvg	NUMBER(3)	null
OxyAvg	NUMBER(3,1)	null
HASalAvg	NUMBER(3,1)	null
TSalAvg	NUMBER(3,1)	null
SecchiAvg	NUMBER(4,2)	null
TubeAvg	NUMBER(3)	null
NO3Avg	NUMBER(3,1)	null
NO3Cnt	INTEGER	not null
BegDate	DATE	not null
EndDate	DATE	not null
BegRDate	DATE	not null
EndRDate	DATE	not null
LagTimeAvg	NUMBER(6,2)	not null

SURFACE_WATER_VU2

SURFACE_WATER_VU1.*
DixonCnt

SURFACE_WATER_VU1

TURBIDITY_WS_VU1

SchoolId
SiteId
Month
MeasureCode
RowCnt
SecchiCnt
TubeCnt
BegDate
EndDate
BegRDate
EndRDate
LagTimeAvg

GLOBE.TURBIDITY_WS

TURBIDITY_WS_CNT

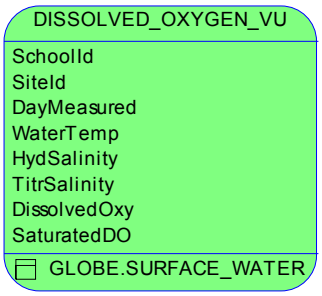
SchoolId	CHAR(8)	not null
SiteId	CHAR(6)	not null
Month	DATE	not null
MeasureCode	CHAR(2)	not null
RowCnt	INTEGER	null
DixonCnt	INTEGER	null
SecchiCnt	INTEGER	null
TubeCnt	INTEGER	null
BegDate	DATE	not null
EndDate	DATE	not null
BegRDate	DATE	not null
EndRDate	DATE	not null
LagTimeAvg	NUMBER(6,2)	not null

TURBIDITY_WS_VU2

TURBIDITY_WS_VU1.*
DixonCnt

TURBIDITY_WS_VU1

Saturated Dissolved Oxygen - Derived Values



This Dissolved Oxygen view was created specifically for use by Goddard visualizations. Performance should be OK without the need for defining a snapshot.
The last column is named SaturatedDO. It is a derived column dependent on WaterTemp and Salinity.

47 Diagram of TM Image Information

Database View for Landsat Image Distribution

Draft Design -- June 7, 2002

GLOBE_SCHOOL

SchoolId	CHAR(8)	not null
SchoolName	VARCHAR2(100)	not null
SchoolNameLocal	VARCHAR2(200)	null
SchoolGrades	VARCHAR(4)	null
SchoolFunding	NUMBER(1)	not null
SchoolType	NUMBER(2)	not null
UrbanizationCode	CHAR(2)	null
NumberStudents	NUMBER(5)	null
AddressLine1	VARCHAR2(50)	null
AddressLine2	VARCHAR2(50)	null
City	VARCHAR2(30)	not null
StateProvCode	VARCHAR2(5)	null
PostalCode	VARCHAR2(10)	null
CountryCode	CHAR(2)	not null
Timezone	VARCHAR2(10)	null
DirectorFullName	VARCHAR2(80)	null
DirectorJobTitle	VARCHAR2(32)	null
DirectorSalutation	VARCHAR2(35)	null
ParentOrganization	VARCHAR2(80)	null
SchoolTelephone	VARCHAR2(25)	null
SchoolFax	VARCHAR2(25)	null
SchoolEmail	VARCHAR2(50)	null
SchoolHomePage	VARCHAR2(100)	null
AppNum	CHAR(8)	null
IPprovider	VARCHAR2(80)	null
IPpayer	CHAR(1)	null
InternetAccess	CHAR(1)	not null
LifeCycleCode	CHAR(1)	not null
CycleChangeDate	DATE	not null
Comments	VARCHAR2(200)	null

SchoolId = SchoolId

TM_IMAGE

SchoolId	CHAR(8)	not null
RequestDate	DATE	not null
ShipDate	DATE	null
Status	VARCHAR2(6)	null
PathNbr	CHAR(3)	null
RowNbr	CHAR(3)	null
ImageDate	DATE	null
DataSource	CHAR(5)	null
Projection	CHAR(3)	null
SensorType	CHAR(4)	null
Datum	CHAR(5)	null
NbrSamplesHeight	INTEGER	null
NbrLinesWidth	INTEGER	null
ProjectionUnits	VARCHAR2(6)	null
ProjectionDistance	INTEGER	null
LLcornerX	FLOAT	null
LLcornerY	FLOAT	null
URcornerX	FLOAT	null
URcornerY	FLOAT	null
ImageLocator	VARCHAR2(100)	null
Comments	VARCHAR2(200)	null

TMI_SchoolLocationViaGPS

SchoolId
SiteId
Latitude
Longitude
Elevation
DataSource
UTtimestamp

GLOBE.SITE_LOCATION

The Site_Location of a school is given by a SiteId = 'SCH-01'

TMI_ActiveSchool250DixonCnt

SchoolId
LifeCycleCode
DixonCnt
Latitude
Longitude
DataSource
SchoolName
AddressLine1
AddressLine2
City
StateProvCode
PostalCode
CountryCode
CountryName
DirectorFullName

GLOBE.GLOBE_SCHOOL
GLOBE.GLOBE_COUNTRY
GLOBE.DIXON_SUMMARY_CNT
TMI_SchoolLocationviaGPS

TMI_CurrentGoodImage

SchoolId
MaxRequestDate
MaxShipDate
NbrRequests

GLOBE.TM_IMAGE

TMI_PotentiallyEligibleSchools

*

TMI_ActiveSchool250DixonCnt
TMI_CurrentGoodImage

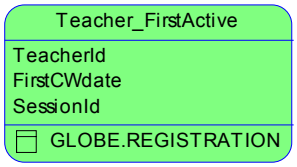
TMI_ImageEligibleSchools

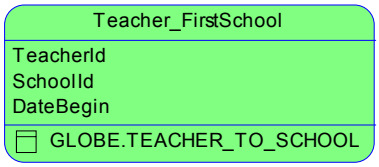
SchoolId
DixonCnt
Latitude
Longitude
LocCode
RequestDate
NULL
NULL
NULL
NULL
NULL
NULL
SchoolName
AddrLine1
AddrLine2
City
StateProvCode
PostalCode
CountryCode
CountryName
DirectorFullName
TeacherList

TMI_PotentiallyEligibleSchools

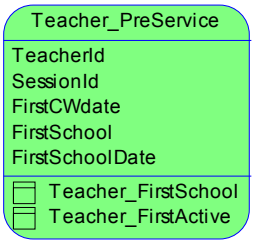
48 Diagram of Teacher PreService

The following views are an initial attempt to identify all pre-service trained teachers. One source is pre-service teachers who were trained at an exclusively pre-service training workshop. Those workshops are identified by 'PRE-SER' in the Category attribute of the WORKSHOP_SESSION table.
The following views attempt to pick up additional pre-service teachers who may not have attended a special pre-service training workshop.

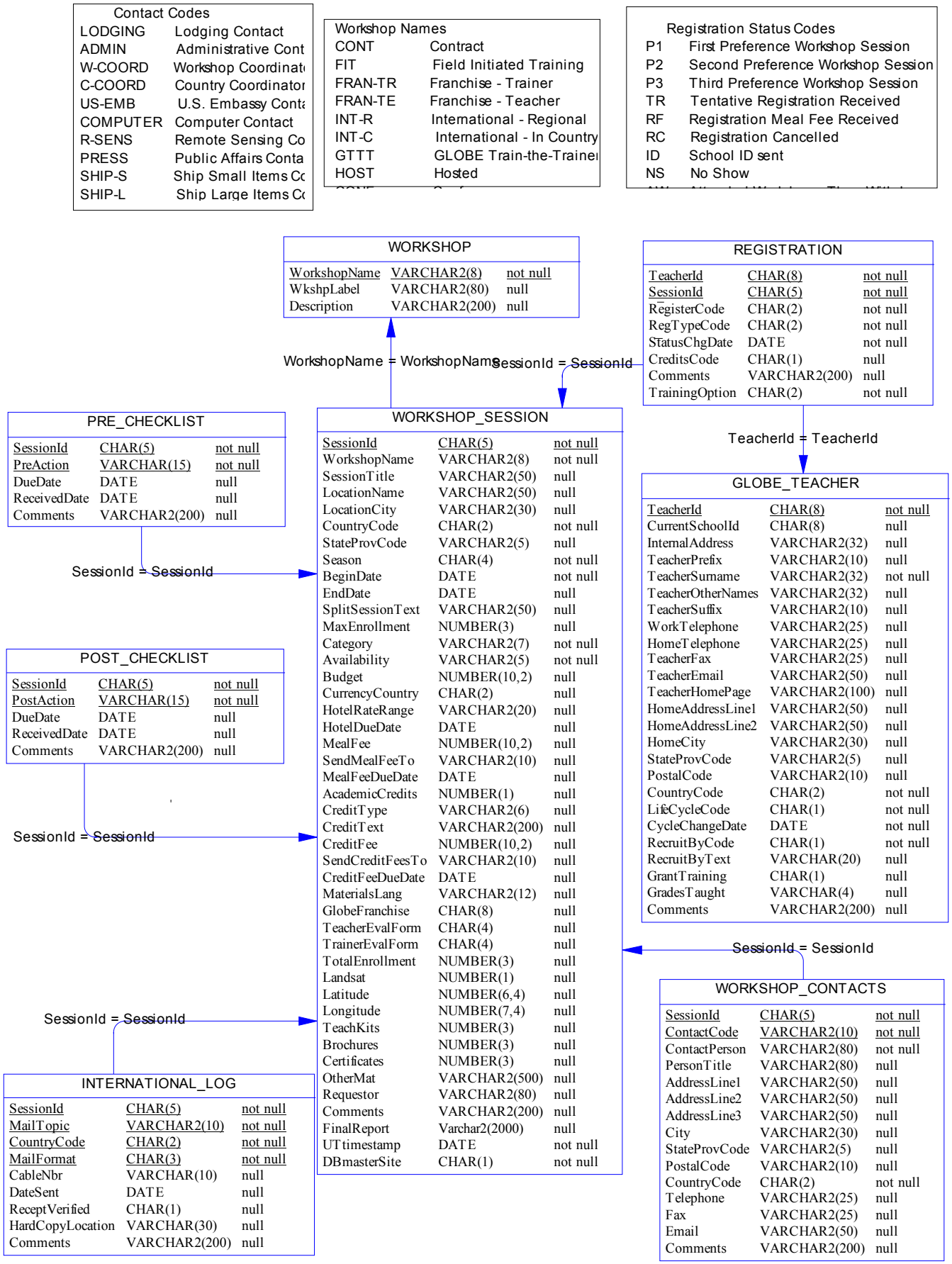




The Teacher_PreService view below chooses all teachers from the Teacher_FirstActive view whose first workshop completion date precedes the date from Teacher_FirstSchool that identifies the beginning date that they were first associated with any school.
At this point there is no attempt to UNION these results with the list of teachers who attended an exclusive pre-service training workshop, although this view has substantial overlap with that result.



49 Diagram of Teacher Training


Contact Codes
LODGING Lodging Contact
ADMIN Administrative Cont
W-COORD Workshop Coordinat
C-COORD Country Coordinator
US-EMB U.S. Embassy Cont
COMPUTER Computer Contact
R-SENS Remote Sensing Co
PRESS Public Affairs Conta
SHIP-S Ship Small Items Co
SHIP-L Ship Large Items Co
Workshop Names
CONT Contract
FIT Field Initiated Training
FRAN-TR Franchise - Trainer
FRAN-TE Franchise - Teacher
INT-R International - Regional
INT-C International - In Country
GTTT GLOBE Train-the-Trainer
HOST Hosted
Registration Status Codes
P1 First Preference Workshop Session
P2 Second Preference Workshop Session
P3 Third Preference Workshop Session
TR Tentative Registration Received
RF Registration Meal Fee Received
RC Registration Cancelled
ID School ID sent
NS No Show
WORKSHOP
WorkshopName VARCHAR2(8) not null
WkshpLabel VARCHAR2(80) null
Description VARCHAR2(200) null
REGISTRATION
TeacherId CHAR(8) not null
SessionId CHAR(5) not null
RegisterCode CHAR(2) not null
RegTypeCode CHAR(2) not null
StatusChgDate DATE not null
CreditsCode CHAR(1) null
Comments VARCHAR2(200) null
TrainingOption CHAR(2) not null
WorkshopName = WorkshopName
SessionId = SessionId
PRE_CHECKLIST
SessionId CHAR(5) not null
PreAction VARCHAR(15) not null
DueDate DATE null
ReceivedDate DATE null
Comments VARCHAR2(200) null
WORKSHOP_SESSION
SessionId CHAR(5) not null
WorkshopName VARCHAR2(8) not null
SessionTitle VARCHAR2(50) null
LocationName VARCHAR2(50) null
LocationCity VARCHAR2(30) null
CountryCode CHAR(2) not null
StateProvCode VARCHAR2(5) null
Season CHAR(4) not null
BeginDate DATE not null
EndDate DATE null
SplitSessionText VARCHAR2(50) null
MaxEnrollment NUMBER(3) null
Category VARCHAR2(7) not null
Availability VARCHAR2(5) not null
Budget NUMBER(10,2) null
CurrencyCountry CHAR(2) null
HotelRateRange VARCHAR2(20) null
HotelDueDate DATE null
MealFee NUMBER(10,2) null
SendMealFeeTo VARCHAR2(10) null
MealFeeDueDate DATE null
AcademicCredits NUMBER(1) null
CreditType VARCHAR2(6) null
CreditText VARCHAR2(200) null
CreditFee NUMBER(10,2) null
SendCreditFeesTo VARCHAR2(10) null
CreditFeeDueDate DATE null
MaterialsLang VARCHAR2(12) null
GlobeFranchise CHAR(8) null
TeacherEvalForm CHAR(4) null
TrainerEvalForm CHAR(4) null
TotalEnrollment NUMBER(3) null
Landsat NUMBER(1) null
Latitude NUMBER(6,4) null
Longitude NUMBER(7,4) null
TeachKits NUMBER(3) null
Brochures NUMBER(3) null
Certificates NUMBER(3) null
OtherMat VARCHAR2(500) null
Requestor VARCHAR2(80) null
Comments VARCHAR2(200) null
FinalReport Varchar2(2000) null
UTtimestamp DATE not null
DBmasterSite CHAR(1) not null
TeacherId = TeacherId
GLOBE_TEACHER
TeacherId CHAR(8) not null
CurrentSchoolId CHAR(8) null
InternalAddress VARCHAR2(32) null
TeacherPrefix VARCHAR2(10) null
TeacherSurname VARCHAR2(32) not null
TeacherOtherNames VARCHAR2(32) null
TeacherSuffix VARCHAR2(10) null
WorkTelephone VARCHAR2(25) null
HomeTelephone VARCHAR2(25) null
TeacherFax VARCHAR2(25) null
TeacherEmail VARCHAR2(50) null
TeacherHomePage VARCHAR2(100) null
HomeAddressLine1 VARCHAR2(50) null
HomeAddressLine2 VARCHAR2(50) null
HomeCity VARCHAR2(30) null
StateProvCode VARCHAR2(5) null
PostalCode VARCHAR2(10) null
CountryCode CHAR(2) not null
LifeCycleCode CHAR(1) not null
CycleChangeDate DATE not null
RecruitByCode CHAR(1) not null
RecruitByText VARCHAR(20) null
GrantTraining CHAR(1) null
GradesTaught VARCHAR(4) null
Comments VARCHAR2(200) null
SessionId = SessionId
POST_CHECKLIST
SessionId CHAR(5) not null
PostAction VARCHAR(15) not null
DueDate DATE null
ReceivedDate DATE null
Comments VARCHAR2(200) null
SessionId = SessionId
SessionId = SessionId
WORKSHOP_CONTACTS
SessionId CHAR(5) not null
ContactCode VARCHAR2(10) not null
ContactPerson VARCHAR2(80) not null
PersonTitle VARCHAR2(80) null
AddressLine1 VARCHAR2(50) null
AddressLine2 VARCHAR2(50) null
AddressLine3 VARCHAR2(50) null
City VARCHAR2(30) null
StateProvCode VARCHAR2(5) null
PostalCode VARCHAR2(10) null
CountryCode CHAR(2) not null
Telephone VARCHAR2(25) null
Fax VARCHAR2(25) null
Email VARCHAR2(50) null
Comments VARCHAR2(200) null
SessionId = SessionId
INTERNATIONAL_LOG
SessionId CHAR(5) not null
MailTopic VARCHAR2(10) not null
CountryCode CHAR(2) not null
MailFormat CHAR(3) not null
CableNbr VARCHAR(10) null
DateSent DATE null
ReceptVerified CHAR(1) null
HardCopyLocation VARCHAR(30) null
Comments VARCHAR2(200) null

50 Diagram of Teacher and School Views

TEACHER_AGT

TEACHERID	CHAR(8)	not null
CURRENTSCHOOLID	CHAR(8)	null
INTERNALADDRESS	VARCHAR2(30)	null
TEACHERPREFIX	VARCHAR2(10)	null
TEACHERSURNAME	VARCHAR2(35)	not null
TEACHEROTHERNAMES	VARCHAR2(35)	null
TEACHERSUFFIX	VARCHAR2(10)	null
WORKTELEPHONE	VARCHAR2(25)	null
HOMETELEPHONE	VARCHAR2(25)	null
TEACHERFAX	VARCHAR2(25)	null
EMAIL	VARCHAR2(50)	null
HOMEPAGE	VARCHAR2(80)	null
HOMEADDRLINE1	VARCHAR2(50)	null
HOMEADDRLINE2	VARCHAR2(50)	null
HOMECITY	VARCHAR2(35)	null
STATEPROVCODE	VARCHAR2(5)	null
POSTALCODE	VARCHAR2(10)	null
COUNTRYCODE	CHAR(2)	not null
LIFECYCLECODE	CHAR(1)	not null
CYCLECHANGEDATE	DATE	not null
RECRUITBYCODE	CHAR(1)	null
RECRUITBYTEXT	VARCHAR2(20)	null
GRANTTRAINING	CHAR(1)	null
COMMENTS	VARCHAR2(200)	null

A view of the Globe_Teacher base table, restricted to teachers who are Active and Globe-Trained.

SCHOOL7_CGTS

CHOOLID	CHAR(8)	not null
CHOOLNAME	VARCHAR2(100)	not null
ITY	VARCHAR2(35)	not null
TATEPROVCODE	VARCHAR2(5)	null
OUNTRYCODE	CHAR(2)	not null
IFECYCLECODE	CHAR(1)	not null
YCLECHANGEDATE	DATE	not null

A view of the Globe_School base table, restricted to schools that have a Current, Globe-Trained Staff member

WORKSHOP_DROPADD

SessionID	CHAR(5)	not null
RCODE	CHAR(2)	not null
CHGDATE	DATE	not null
RTYPE	CHAR(2)	null
TEACH_ID	CHAR(8)	not null
SCHOOL_ID	CHAR(8)	not null
PRE	VARCHAR2(10)	null
LAST	VARCHAR2(35)	not null
FIRST	VARCHAR2(35)	null
SUF	VARCHAR2(10)	null
HOME_TEL	VARCHAR2(25)	null
WORK_TEL	VARCHAR2(25)	null
COMMENTS	VARCHAR2(200)	null

A view of the REGISTRATION base table, joined with several identifying attributes from the Globe_Teacher base table. Only the REGISTRATION items will be Updatable, not the Teacher items.

SCHOOL7_N_CGTS

SCHOOLID	CHAR(8)	not null
SCHOOLNAME	VARCHAR2(100)	not null
CITY	VARCHAR2(35)	not null
STATEPROVCODE	VARCHAR2(5)	null
COUNTRYCODE	CHAR(2)	not null
LIFECYCLECODE	CHAR(1)	not null
CYCLECHANGEDATE	DATE	not null

A view of the Globe_School base table, restricted to schools that do NOT have a Current, Globe-Trained Staff member.

SCHOOL_TRAINEDSTAFF

SCHOOLID	CHAR(8)	not null
TEACHERID	CHAR(8)	not null
SESSIONID	CHAR(5)	not null
CWDATE	DATE	not null

A join of the Registration and TeacherToSchool base tables, restricted to current teachers at the identified school who have completed GLOBE Training

SCHOOL_NBRCGTS

SCHOOLID	CHAR(8)	not null
NBRGTSTAFF	NUMBER	not null

A listing of SchoolId's along with the Number of Current, Globe-Trained Staff associated with that school.

SCHOOL7_CP

SCHOOLID	CHAR(8)	not null
SCHOOLNAME	VARCHAR2(100)	not null
CITY	VARCHAR2(35)	not null
STATEPROVCODE	VARCHAR2(5)	null
COUNTRYCODE	CHAR(2)	not null
LIFECYCLECODE	CHAR(1)	not null
CYCLECHANGEDATE	DATE	not null

SCHOOL7_A

SCHOOLID	CHAR(8)	not null
SCHOOLNAME	VARCHAR2(100)	not null
CITY	VARCHAR2(35)	not null
STATEPROVCODE	VARCHAR2(5)	null
COUNTRYCODE	CHAR(2)	not null
LIFECYCLECODE	CHAR(1)	not null
CYCLECHANGEDATE	DATE	not null

SCHOOL_MINCWDATE

SCHOOLID	CHAR(8)	not null
MINCWDATE	DATE	not null

A listing of SchoolId's along with the DATE at which a current staff member at that school first completed Globe-Training.

SCHOOL7_M

SCHOOLID	CHAR(8)	not null
SCHOOLNAME	VARCHAR2(100)	not null
CITY	VARCHAR2(35)	not null
STATEPROVCODE	VARCHAR2(5)	null
COUNTRYCODE	CHAR(2)	not null
LIFECYCLECODE	CHAR(1)	not null
CYCLECHANGEDATE	DATE	not null

WEEKLY_ADDDROP_RPT

SESSID	CHAR(5)	not null
RCODE	CHAR(2)	not null
CHGDATE	DATE	not null
RTYPE	CHAR(2)	null
COMMENTS	VARCHAR2(200)	null
PRE	VARCHAR2(10)	null
FIRST	VARCHAR2(35)	null
LAST	VARCHAR2(35)	not null
SUFF	VARCHAR2(10)	null
HOME_TEL	VARCHAR2(25)	null
WORK_TEL	VARCHAR2(25)	null
TEACH_ID	CHAR(8)	not null
SCH_ID	CHAR(8)	not null
SCHOOL_NAME	VARCHAR2(100)	not null
SCHOOLADDRLINE1	VARCHAR2(50)	null
SCHOOLADDRLINE2	VARCHAR2(64)	null
SCHOOL_CITY	VARCHAR2(35)	null
SCHSTATE	VARCHAR2(5)	null
SCHZIP	VARCHAR2(10)	null
SCHOOL_TEL	VARCHAR2(25)	null
SCHOOL_FAX	VARCHAR2(25)	null
HOMEADDRLINE1	VARCHAR2(50)	null
HOMEADDRLINE2	VARCHAR2(50)	null
HOME_CITY	VARCHAR2(35)	null
HOMESTATE	VARCHAR2(5)	null
HOMEZIP	VARCHAR2(10)	null
EMAIL	VARCHAR2(50)	null

A view of the REGISTRATION base table, joined with several attributes from the Globe_ Teacher and Globe_School base tables. Shows Add/Drops within the last 6 days.

SCHLTCHR_MINCWDATE

SCHOOLID	CHAR(8)	not null
TEACHERID	CHAR(8)	not null
MINCWDATE	DATE	not null

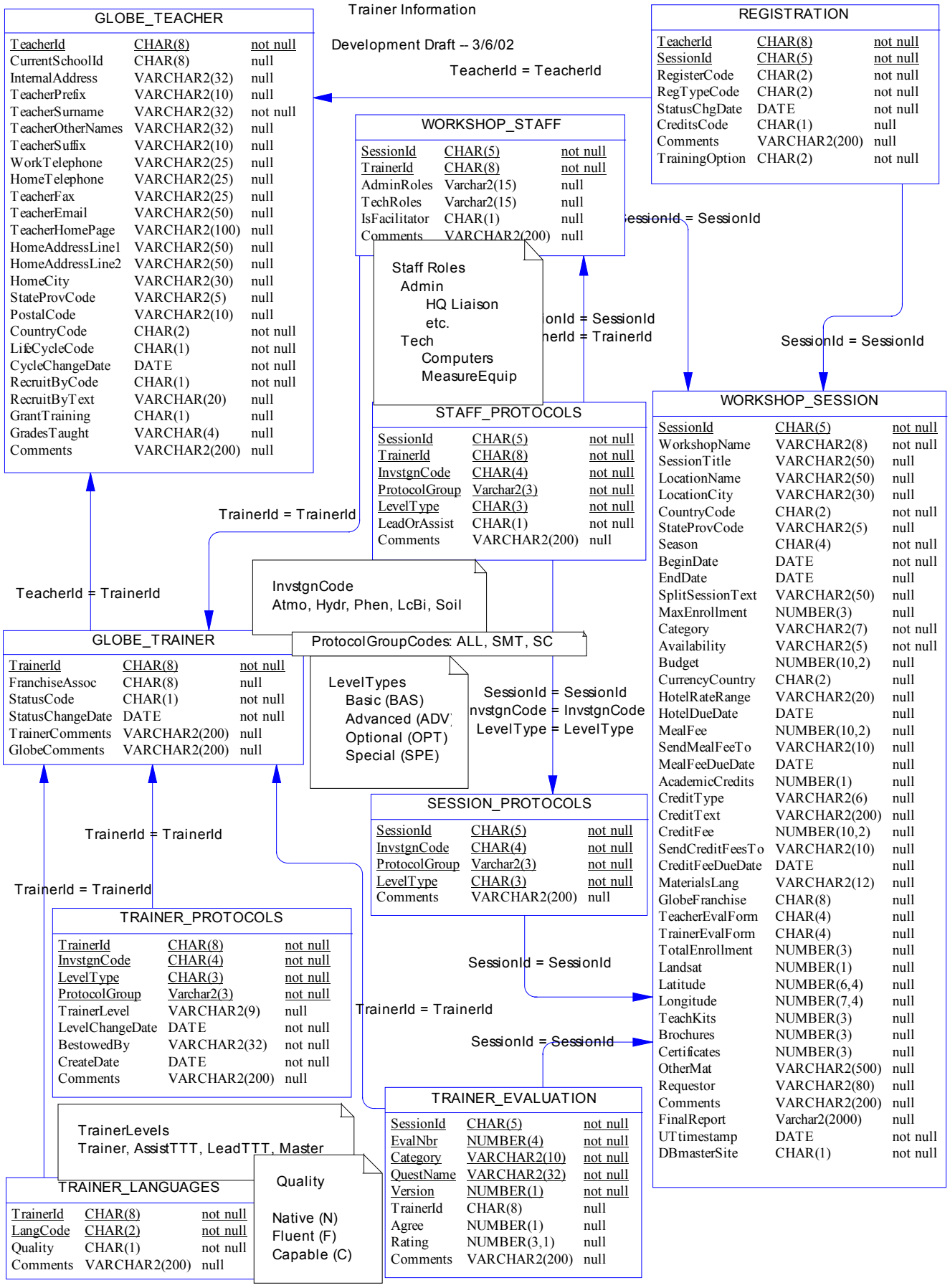
A listing of SchoolId's and TeacherId's, for teachers currently associated with the school, along with the DATE at which the teacher first completed Globe-Training.

SCHOOL7_IO

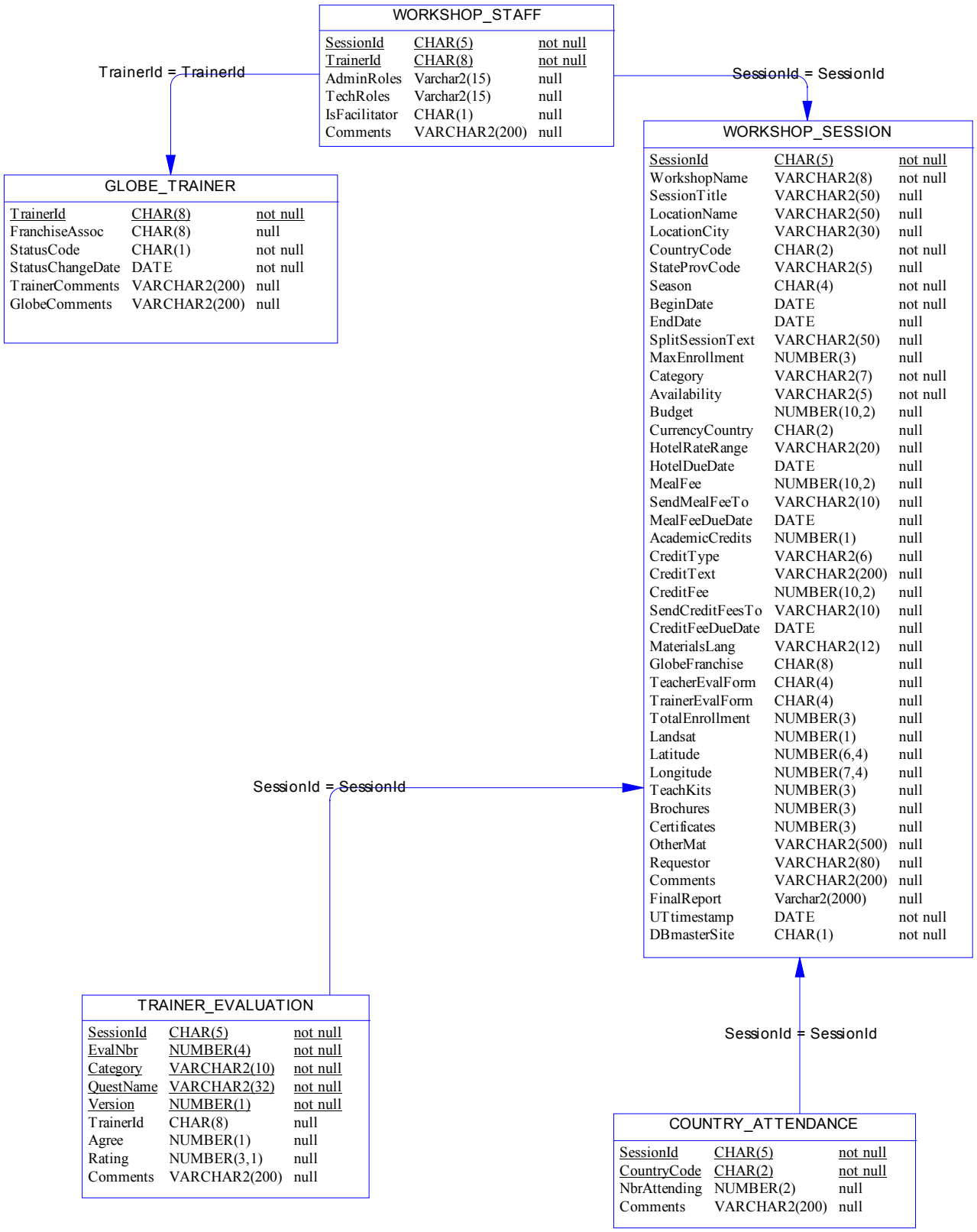
SCHOOLID	CHAR(8)	not null
SCHOOLNAME	VARCHAR2(100)	not null
CITY	VARCHAR2(35)	not null
STATEPROVCODE	VARCHAR2(5)	null
COUNTRYCODE	CHAR(2)	not null
LIFECYCLECODE	CHAR(1)	not null
CYCLECHANGEDATE	DATE	not null

A view of 7 identifying attributes from the Globe_School base table, restricted to schools having Life Cycle Codes: C or P as "Candidate" or "Pre-candidate", A as "Active", M as adMinistrative", or I or O as "Inactive" or "Other".

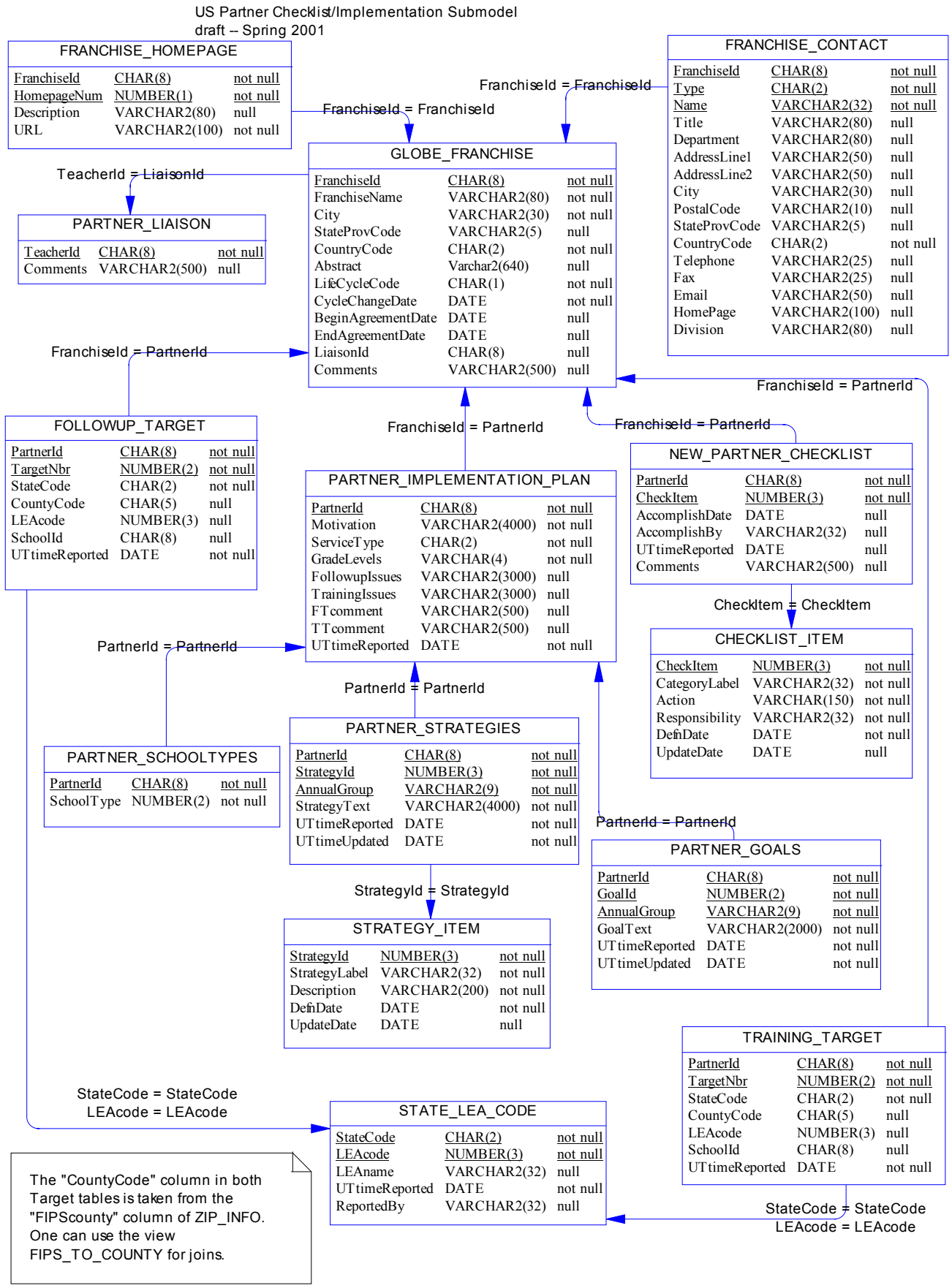
51 Diagram of Trainer Information


Trainer Information
Development Draft -- 3/6/02
GLOBE_TEACHER
TeacherId CHAR(8) not null
CurrentSchoolId CHAR(8) null
InternalAddress VARCHAR2(32) null
TeacherPrefix VARCHAR2(10) null
TeacherSurname VARCHAR2(32) not null
TeacherOtherNames VARCHAR2(32) null
TeacherSuffix VARCHAR2(10) null
WorkTelephone VARCHAR2(25) null
HomeTelephone VARCHAR2(25) null
TeacherFax VARCHAR2(25) null
TeacherEmail VARCHAR2(50) null
TeacherHomePage VARCHAR2(100) null
HomeAddressLine1 VARCHAR2(50) null
HomeAddressLine2 VARCHAR2(50) null
HomeCity VARCHAR2(30) null
StateProvCode VARCHAR2(5) null
PostalCode VARCHAR2(10) null
CountryCode CHAR(2) not null
LifeCycleCode CHAR(1) not null
CycleChangeDate DATE not null
RecruitByCode CHAR(1) not null
RecruitByText VARCHAR(20) null
GrantTraining CHAR(1) null
GradesTaught VARCHAR(4) null
Comments VARCHAR2(200) null
TeacherId = TeacherId
REGISTRATION
TeacherId CHAR(8) not null
SessionId CHAR(5) not null
RegisterCode CHAR(2) not null
RegTypeCode CHAR(2) not null
StatusChgDate DATE not null
CreditsCode CHAR(1) null
Comments VARCHAR2(200) null
TrainingOption CHAR(2) not null
WORKSHOP_STAFF
SessionId CHAR(5) not null
TrainerId CHAR(8) not null
AdminRoles Varchar2(15) null
TechRoles Varchar2(15) null
IsFacilitator CHAR(1) null
Comments VARCHAR2(200) null
SessionId = SessionId
Staff Roles
Admin
HQ Liaison
etc.
Tech
Computers
MeasureEquip
onId = SessionId
nerId = TrainerId
SessionId = SessionId
WORKSHOP_SESSION
SessionId CHAR(5) not null
WorkshopName VARCHAR2(8) not null
SessionTitle VARCHAR2(50) null
LocationName VARCHAR2(50) null
LocationCity VARCHAR2(30) null
CountryCode CHAR(2) not null
StateProvCode VARCHAR2(5) null
Season CHAR(4) not null
BeginDate DATE not null
EndDate DATE null
SplitSessionText VARCHAR2(50) null
MaxEnrollment NUMBER(3) null
Category VARCHAR2(7) not null
Availability VARCHAR2(5) not null
Budget NUMBER(10,2) null
CurrencyCountry CHAR(2) null
HotelRateRange VARCHAR2(20) null
HotelDueDate DATE null
MealFee NUMBER(10,2) null
SendMealFeeTo VARCHAR2(10) null
MealFeeDueDate DATE null
AcademicCredits NUMBER(1) null
CreditType VARCHAR2(6) null
CreditText VARCHAR2(200) null
CreditFee NUMBER(10,2) null
SendCreditFeesTo VARCHAR2(10) null
CreditFeeDueDate DATE null
MaterialsLang VARCHAR2(12) null
GlobeFranchise CHAR(8) null
TeacherEvalForm CHAR(4) null
TrainerEvalForm CHAR(4) null
TotalEnrollment NUMBER(3) null
Landsat NUMBER(1) null
Latitude NUMBER(6,4) null
Longitude NUMBER(7,4) null
TeachKits NUMBER(3) null
Brochures NUMBER(3) null
Certificates NUMBER(3) null
OtherMat VARCHAR2(500) null
Requestor VARCHAR2(80) null
Comments VARCHAR2(200) null
FinalReport Varchar2(2000) null
UTtimestamp DATE not null
DBmasterSite CHAR(1) not null
STAFF_PROTOCOLS
SessionId CHAR(5) not null
TrainerId CHAR(8) not null
InvstgnCode CHAR(4) not null
ProtocolGroup Varchar2(3) not null
LevelType CHAR(3) not null
LeadOrAssist CHAR(1) not null
Comments VARCHAR2(200) null
TrainerId = TrainerId
InvstgnCode
Atmo, Hydr, Phen, LcBi, Soil
TeacherId = TrainerId
GLOBE_TRAINER
TrainerId CHAR(8) not null
FranchiseAssoc CHAR(8) null
StatusCode CHAR(1) not null
StatusChangeDate DATE not null
TrainerComments VARCHAR2(200) null
GlobeComments VARCHAR2(200) null
ProtocolGroupCodes: ALL, SMT, SC
LevelTypes
Basic (BAS)
Advanced (ADV)
Optional (OPT)
Special (SPE)
SessionId = SessionId
nvstgnCode = InvstgnCode
LevelType = LevelType
SESSION_PROTOCOLS
SessionId CHAR(5) not null
InvstgnCode CHAR(4) not null
ProtocolGroup Varchar2(3) not null
LevelType CHAR(3) not null
Comments VARCHAR2(200) null
TrainerId = TrainerId
TrainerId = TrainerId
TRAINER_PROTOCOLS
TrainerId CHAR(8) not null
InvstgnCode CHAR(4) not null
LevelType CHAR(3) not null
ProtocolGroup Varchar2(3) not null
TrainerLevel VARCHAR2(9) null
LevelChangeDate DATE not null
BestowedBy VARCHAR2(32) not null
CreateDate DATE not null
Comments VARCHAR2(200) null
SessionId = SessionId
TrainerId = TrainerId
SessionId = SessionId
TRAINER_EVALUATION
SessionId CHAR(5) not null
EvalNbr NUMBER(4) not null
Category VARCHAR2(10) not null
QuestName VARCHAR2(32) not null
Version NUMBER(1) not null
TrainerId CHAR(8) null
Agree NUMBER(1) null
Rating NUMBER(3,1) null
Comments VARCHAR2(200) null
TrainerLevels
Trainer, AssistTTT, LeadTTT, Master
TRAINER_LANGUAGES
TrainerId CHAR(8) not null
LangCode CHAR(2) not null
Quality CHAR(1) not null
Comments VARCHAR2(200) null
Quality
Native (N)
Fluent (F)
Capable (C)

52 Diagram of Trainer Training


WORKSHOP_STAFF
SessionId CHAR(5) not null
TrainerId CHAR(8) not null
AdminRoles Varchar2(15) null
TechRoles Varchar2(15) null
IsFacilitator CHAR(1) null
Comments VARCHAR2(200) null
TrainerId = TrainerId
SessionId = SessionId
GLOBE_TRAINER
TrainerId CHAR(8) not null
FranchiseAssoc CHAR(8) null
StatusCode CHAR(1) not null
StatusChangeDate DATE not null
TrainerComments VARCHAR2(200) null
GlobeComments VARCHAR2(200) null
WORKSHOP_SESSION
SessionId CHAR(5) not null
WorkshopName VARCHAR2(8) not null
SessionTitle VARCHAR2(50) null
LocationName VARCHAR2(50) null
LocationCity VARCHAR2(30) null
CountryCode CHAR(2) not null
StateProvCode VARCHAR2(5) null
Season CHAR(4) not null
BeginDate DATE not null
EndDate DATE null
SplitSessionText VARCHAR2(50) null
MaxEnrollment NUMBER(3) null
Category VARCHAR2(7) not null
Availability VARCHAR2(5) not null
Budget NUMBER(10,2) null
CurrencyCountry CHAR(2) null
HotelRateRange VARCHAR2(20) null
HotelDueDate DATE null
MealFee NUMBER(10,2) null
SendMealFeeTo VARCHAR2(10) null
MealFeeDueDate DATE null
AcademicCredits NUMBER(1) null
CreditType VARCHAR2(6) null
CreditText VARCHAR2(200) null
CreditFee NUMBER(10,2) null
SendCreditFeesTo VARCHAR2(10) null
CreditFeeDueDate DATE null
MaterialsLang VARCHAR2(12) null
GlobeFranchise CHAR(8) null
TeacherEvalForm CHAR(4) null
TrainerEvalForm CHAR(4) null
TotalEnrollment NUMBER(3) null
Landsat NUMBER(1) null
Latitude NUMBER(6,4) null
Longitude NUMBER(7,4) null
TeachKits NUMBER(3) null
Brochures NUMBER(3) null
Certificates NUMBER(3) null
OtherMat VARCHAR2(500) null
Requestor VARCHAR2(80) null
Comments VARCHAR2(200) null
FinalReport Varchar2(2000) null
UTtimestamp DATE not null
DBmasterSite CHAR(1) not null
SessionId = SessionId
TRAINER_EVALUATION
SessionId CHAR(5) not null
EvalNbr NUMBER(4) not null
Category VARCHAR2(10) not null
QuestName VARCHAR2(32) not null
Version NUMBER(1) not null
TrainerId CHAR(8) null
Agree NUMBER(1) null
Rating NUMBER(3,1) null
Comments VARCHAR2(200) null
SessionId = SessionId
COUNTRY_ATTENDANCE
SessionId CHAR(5) not null
CountryCode CHAR(2) not null
NbrAttending NUMBER(2) null
Comments VARCHAR2(200) null

53 Diagram of US Partners


US Partner Checklist/Implementation Submodel
draft -- Spring 2001
FRANCHISE_HOMEPAGE
FranchiseId CHAR(8) not null
HomepageNum NUMBER(1) not null
Description VARCHAR2(80) null
URL VARCHAR2(100) not null
FranchiseId = FranchiseId
FranchiseId = FranchiseId
FRANCHISE_CONTACT
FranchiseId CHAR(8) not null
Type CHAR(2) not null
Name VARCHAR2(32) not null
Title VARCHAR2(80) null
Department VARCHAR2(80) null
AddressLine1 VARCHAR2(50) null
AddressLine2 VARCHAR2(50) null
City VARCHAR2(30) null
PostalCode VARCHAR2(10) null
StateProvCode VARCHAR2(5) null
CountryCode CHAR(2) not null
Telephone VARCHAR2(25) null
Fax VARCHAR2(25) null
Email VARCHAR2(50) null
HomePage VARCHAR2(100) null
Division VARCHAR2(80) null
GLOBE_FRANCHISE
FranchiseId CHAR(8) not null
FranchiseName VARCHAR2(80) not null
City VARCHAR2(30) not null
StateProvCode VARCHAR2(5) null
CountryCode CHAR(2) not null
Abstract Varchar2(640) null
LifeCycleCode CHAR(1) not null
CycleChangeDate DATE not null
BeginAgreementDate DATE null
EndAgreementDate DATE null
LiaisonId CHAR(8) null
Comments VARCHAR2(500) null
TeacherId = LiaisonId
PARTNER_LIAISON
TeacherId CHAR(8) not null
Comments VARCHAR2(500) null
FranchiseId = PartnerId
FranchiseId = PartnerId
FranchiseId = PartnerId
FranchiseId = PartnerId
FOLLOWUP_TARGET
PartnerId CHAR(8) not null
TargetNbr NUMBER(2) not null
StateCode CHAR(2) not null
CountyCode CHAR(5) null
LEAcode NUMBER(3) null
SchoolId CHAR(8) null
UTtimeReported DATE not null
PARTNER_IMPLEMENTATION_PLAN
PartnerId CHAR(8) not null
Motivation VARCHAR2(4000) not null
ServiceType CHAR(2) not null
GradeLevels VARCHAR(4) not null
FollowupIssues VARCHAR2(3000) null
TrainingIssues VARCHAR2(3000) null
FTcomment VARCHAR2(500) null
TTcomment VARCHAR2(500) null
UTtimeReported DATE not null
NEW_PARTNER_CHECKLIST
PartnerId CHAR(8) not null
CheckItem NUMBER(3) not null
AccomplishDate DATE null
AccomplishBy VARCHAR2(32) null
UTtimeReported DATE null
Comments VARCHAR2(500) null
CheckItem = CheckItem
CHECKLIST_ITEM
CheckItem NUMBER(3) not null
CategoryLabel VARCHAR2(32) not null
Action VARCHAR(150) not null
Responsibility VARCHAR2(32) not null
DefnDate DATE not null
UpdateDate DATE null
PartnerId = PartnerId
PartnerId = PartnerId
PARTNER_SCHOOLTYPES
PartnerId CHAR(8) not null
SchoolType NUMBER(2) not null
PARTNER_STRATEGIES
PartnerId CHAR(8) not null
StrategyId NUMBER(3) not null
AnnualGroup VARCHAR2(9) not null
StrategyText VARCHAR2(4000) not null
UTtimeReported DATE not null
UTtimeUpdated DATE not null
PartnerId = PartnerId
PARTNER_GOALS
PartnerId CHAR(8) not null
GoalId NUMBER(2) not null
AnnualGroup VARCHAR2(9) not null
GoalText VARCHAR2(2000) not null
UTtimeReported DATE not null
UTtimeUpdated DATE not null
StrategyId = StrategyId
STRATEGY_ITEM
StrategyId NUMBER(3) not null
StrategyLabel VARCHAR2(32) not null
Description VARCHAR2(200) not null
DefnDate DATE not null
UpdateDate DATE null
TRAINING_TARGET
PartnerId CHAR(8) not null
TargetNbr NUMBER(2) not null
StateCode CHAR(2) not null
CountyCode CHAR(5) null
LEAcode NUMBER(3) null
SchoolId CHAR(8) null
UTtimeReported DATE not null
StateCode = StateCode
LEAcode = LEAcode
STATE_LEA_CODE
StateCode CHAR(2) not null
LEAcode NUMBER(3) not null
LEAname VARCHAR2(32) null
UTtimeReported DATE not null
ReportedBy VARCHAR2(32) null
StateCode = StateCode
LEAcode = LEAcode
The "CountyCode" column in both Target tables is taken from the "FIPScounty" column of ZIP_INFO. One can use the view FIPS_TO_COUNTY for joins.

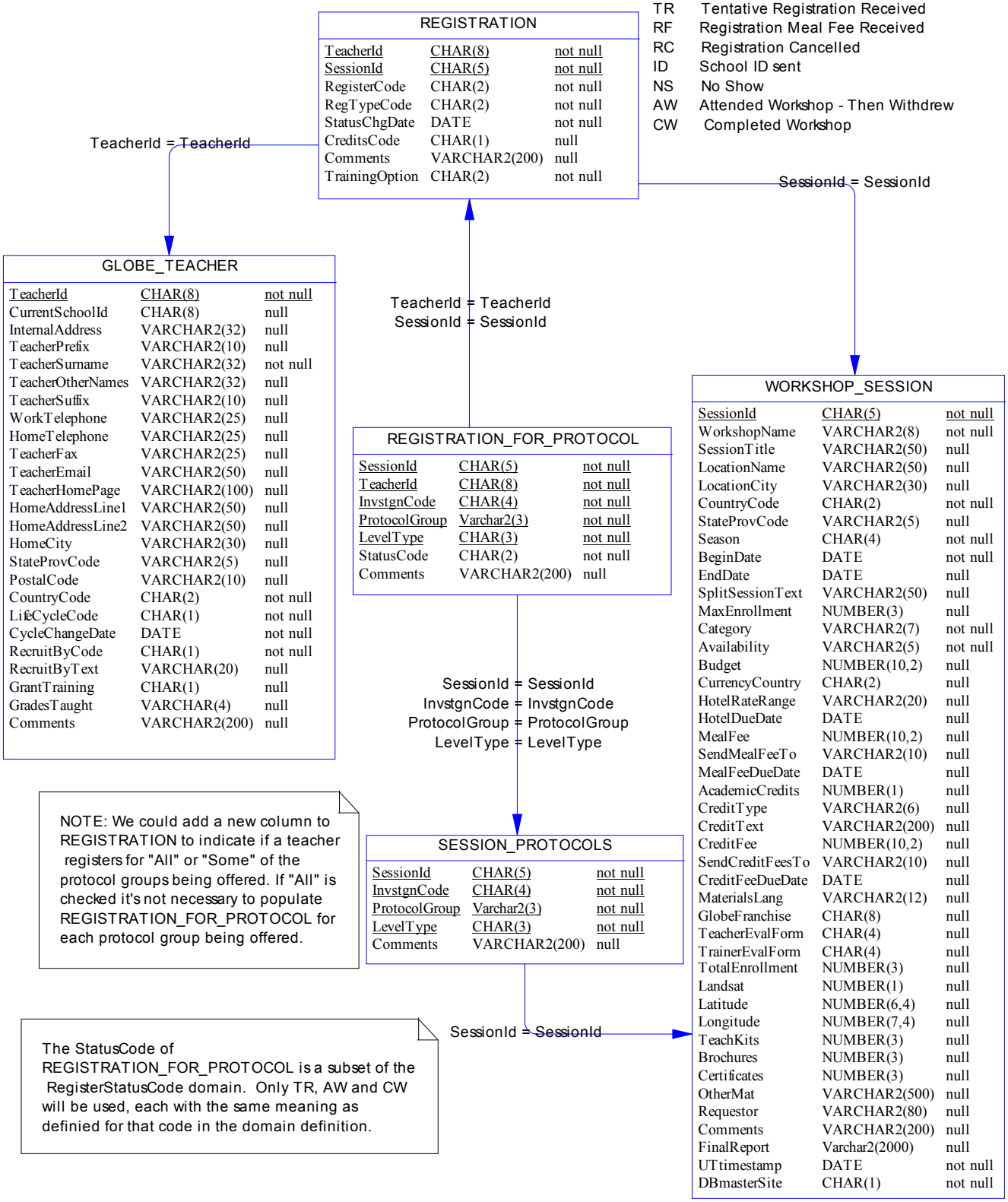
54 Diagram of Workshop Registration (Future)

Workshop Registration (Future?)

draft design - January 28, 2002

Registration Status Codes

P1	First Preference Workshop Session
P2	Second Preference Workshop Session
P3	Third Preference Workshop Session
TR	Tentative Registration Received
RF	Registration Meal Fee Received
RC	Registration Cancelled
ID	School ID sent
NS	No Show
AW	Attended Workshop - Then Withdrew
CW	Completed Workshop



55 Diagram of Zip Information

ZIP_INFO

State	CHAR(2)	not null
City	VARCHAR2(32)	not null
County	VARCHAR2(32)	not null
Zip	CHAR(5)	not null
CongDist	CHAR(2)	null
TelAreaCode	CHAR(3)	not null
FIPScounty	CHAR(5)	not null
Pref	CHAR(1)	not null
TimeZone	VARCHAR2(5)	not null
DSTflag	CHAR(1)	not null
Latitude	NUMBER(6,4)	not null
Longitude	NUMBER(7,4)	not null
MSA	CHAR(4)	null
PMSA	CHAR(4)	null

ZIP_TO_COUNTY

Zip
County

ZIP_INFO;

A projection on Zip and County from ZIP_INFO, where Zip acts like a primary key because zip codes do not cross county lines.

FIPS_TO_COUNTY

FIPScounty
County

GLOBE.ZIP_INFO

A projection on ZIP_INFO where FIPScounty acts as a primary key.

CONGRESS_PEOPLE

State	CHAR(2)	not null
CongressId	CHAR(2)	not null
FirstName	VARCHAR2(32)	not null
LastName	VARCHAR2(32)	not null
Party	CHAR(1)	not null
HillAddress	VARCHAR2(50)	not null
OfficeTele	VARCHAR2(25)	not null
OfficeFax	VARCHAR2(25)	null
OfficeEmail	VARCHAR2(50)	null
GlobeStaffPerson	VARCHAR2(80)	null
GlobeStaffTele	VARCHAR2(25)	null
GlobeStaffEmail	VARCHAR2(50)	null
FIPSstate	CHAR(2)	not null
Comments	VARCHAR2(200)	null

ZIPMISSING_MISMATCH

GS.SchoolId

GLOBE_SCHOOL
ZIP_INFO

A list of SchoolId's for US schools where the first 5 characters of PostalCode does not occur as a zip code in Zip_Info. Includes schools with null PostalCodes.

ZIPSTATECITY_MISMATCH

GS.SchoolId

GLOBE_SCHOOL
ZIP_INFO

A list of SchoolId's for US schools where (City, State, Zip) from the GLOBE_SCHOOL table does not match a (City,State,Zip) in ZIP_INFO.

ZIPLOC_MISMATCH

GS.SchoolId

Globe.Site_Location
GLOBE_SCHOOL
ZIP_INFO

A list of SchoolId's for US schools where the Lat or Long of the school location differs by more than 0.3 from any Lat or Long in ZIP_INFO derived from the school's zip code.