Watersense - complete except Appuser

SENSORCHECK

PK,FK	SENSORID	varchar2(200)
PK	DATECHECKED	timestamp(6)(11)
	STATUS	varchar2(1600)
	BATTERYLEVEL	number
	NOTES	varchar2(12000)
	ACTIVE	char(1)
FK	CHECKEDBY	varchar2(200)

SensorCheck records visits to a sensor and their state

MEASUREMENTNOTE

PK,FK	SENSORID	varchar2(200)
PK,FK	UNITID	varchar2(200)
PK,FK	DATETIMEFROM	timestamp(6)(11)
PK	MEASNOTENUMBER	number
	DATETIMETO	timestamp(6)(11)
	NOTES	varchar2(12000)
FK	MADEBY	varchar2(200)

MEASUREMENT

PK,FK	SENSORID	varchar2(200)
PK,FK	UNITID	varchar2(200)
PK	DATETIME	timestamp(6)(11)
	DATETIMEPLUS6	timestamp(6)(11)
	READING	number

SENSORCAPABILITYCHECK

PK,FK	SENSORID	varchar2(200)
PK,FK	UNITID	varchar2(200)
PK	DATECHECKED	timestamp(6)(11)
	NOTES	varchar2(12000)
FK	CHECKEDBY	varchar2(200)

SensorCapabilityCheck records checks to a sensor's specific capability, e.g. calibration

SENSORCAPABILITY

PK,FK	SENSORID	varchar2(200)
PK,FK	UNITID	varchar2(200)
	DATECHECKED	timestamp(6)(11)
	NOTES	varchar2(12000)
	CHECKEDBY	varchar2(200)
	TOLERANCE	number
	TOLERANCEUNIT	varchar2(200)

MEASUREMENTUNIT

PK	UNITID	varchar2(200)
	UNITNAME	varchar2(200)
	UNITSYMBOL	varchar2(40)
	DESCRIPTION	varchar2(400)
	NOTES	varchar2(3000)

SENSOR

PK	SENSORID	varchar2(200)
FK	CURRENTPLACE	varchar2(200)
FK	RIVERID	varchar2(200)
	DATECHECKED	timestamp(6)(11)
	STATUS	varchar2(1600)
	DATEMOVED	timestamp(6)(11)
	BATTERYLEVEL	number
	NOTES	varchar2(12000)
	ACTIVE	char(1)
FK	ENTEREDBY	varchar2(200)
FK	UPDATEDBY	varchar2(200)

The sensor table still holds a reference to the *current* place where a sensor is (former places are in the sensorplace table)

SENSORPLACE

PK,FK	SENSORID	varchar2(200)
PK,FK	PLACEID	varchar2(200)
PK,FK	RIVERID	varchar2(200)
PK	DATEFROM	timestamp(6)(11)
	DATETO	timestamp(6)(11)
	NOTES	varchar2(12000)
FK	MOVEDBY	varchar2(200)

SensorPlace is a record of former places where a sensor has been positioned

PLACE

PK	PLACEID	varchar2(200)
PK,FK	RIVERID	varchar2(200)
FK	DOWNRIVERPLACEID	varchar2(200)
FK	DOWNRIVERRIVERID	varchar2(200)
	DOWNRIVERDISTANCE	number
	LAT	binary_double(8)
	LONGITUDE	binary_double(8)
	NEARLAT	binary_double(8)
	NEARLONG	binary_double(8)
	DATECHECKED	timestamp(6)(11)
	DESCRIPTION	varchar2(1600)
	NOTES	varchar2(12000)
FK	ENTEREDBY	varchar2(200)
FK	CHECKEDBY	varchar2(200)

PLACECHECK

PK,FK	PLACEID	varchar2(200)
PK,FK	RIVERID	varchar2(200)
PK	DATECHECKED	timestamp(6)(11)
	DESCRIPTION	varchar2(1600)
	NOTES	varchar2(12000)
FK	CHECKEDBY	varchar2(200)

PlaceCheck archives former checks and descriptions of place

RIVER

PK	RIVERID	varchar2(200)
	RIVERNAME	varchar2(200)
	SOURCELAT	binary_double(8)
	SOURCELONG	binary_double(8)
	MOUTHLAT	binary_double(8)
	MOUTHLONG	binary_double(8)
FK	DOWNRIVERID	varchar2(400)
	CONFBANK	char(1)
	DESCRIPTION	varchar2(1600)
	NOTES	varchar2(12000)
FK	ENTEREDBY	varchar2(200)