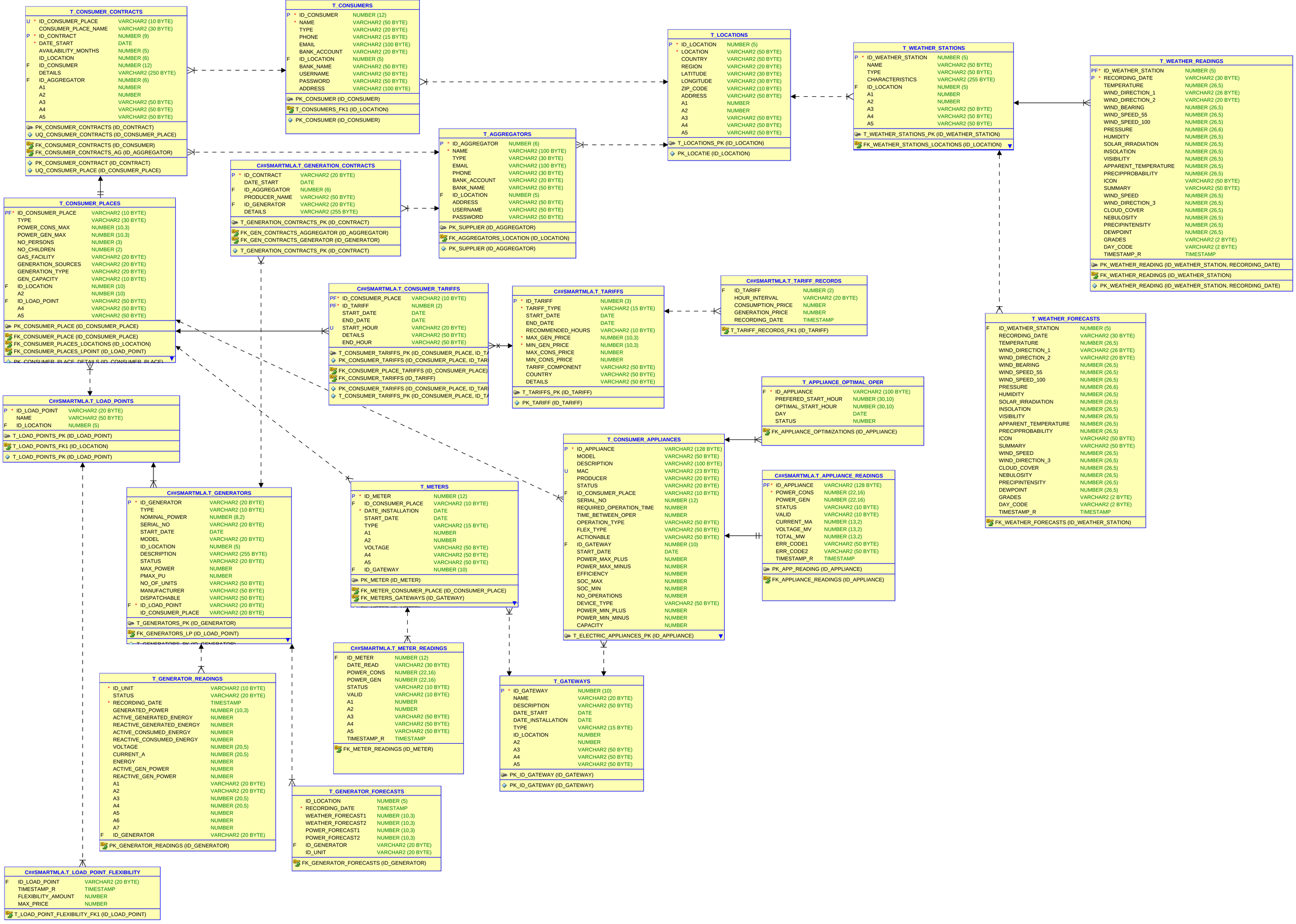
T_CONSUMER_CONTRACTS
U * ID_CONSUMER_PLACE VARCHAR2 (10 BYTE)
CONSUMER_PLACE_NAME VARCHAR2 (30 BYTE)
P * ID_CONTRACT NUMBER (9)
* DATE_START DATE
AVAILABILITY_MONTHS NUMBER (5)
ID_LOCATION NUMBER (6)
F ID_CONSUMER NUMBER (12)
DETAILS VARCHAR2 (250 BYTE)
F ID_AGGREGATOR NUMBER (6)
A1 NUMBER
A2 NUMBER
A3 VARCHAR2 (50 BYTE)
A4 VARCHAR2 (50 BYTE)
A5 VARCHAR2 (50 BYTE)
PK_CONSUMER_CONTRACTS (ID_CONTRACT)
UQ_CONSUMER_CONTRACTS (ID_CONSUMER_PLACE)
FK_CONSUMER_CONTRACTS (ID_CONSUMER)
FK_CONSUMER_CONTRACTS_AG (ID_AGGREGATOR)
PK_CONSUMER_CONTRACT (ID_CONTRACT)
UQ_CONSUMER_PLACE (ID_CONSUMER_PLACE)
T_CONSUMERS
P * ID_CONSUMER NUMBER (12)
* NAME VARCHAR2 (50 BYTE)
TYPE VARCHAR2 (20 BYTE)
PHONE VARCHAR2 (15 BYTE)
EMAIL VARCHAR2 (100 BYTE)
BANK_ACCOUNT VARCHAR2 (20 BYTE)
F ID_LOCATION NUMBER (5)
BANK_NAME VARCHAR2 (50 BYTE)
USERNAME VARCHAR2 (50 BYTE)
PASSWORD VARCHAR2 (50 BYTE)
ADDRESS VARCHAR2 (100 BYTE)
PK_CONSUMER (ID_CONSUMER)
T_CONSUMERS_FK1 (ID_LOCATION)
PK_CONSUMER (ID_CONSUMER)
T_LOCATIONS
P * ID_LOCATION NUMBER (5)
* LOCATION VARCHAR2 (50 BYTE)
COUNTRY VARCHAR2 (50 BYTE)
REGION VARCHAR2 (20 BYTE)
LATITUDE VARCHAR2 (30 BYTE)
LONGITUDE VARCHAR2 (30 BYTE)
ZIP_CODE VARCHAR2 (10 BYTE)
ADDRESS VARCHAR2 (50 BYTE)
A1 NUMBER
A2 NUMBER
A3 VARCHAR2 (50 BYTE)
A4 VARCHAR2 (50 BYTE)
A5 VARCHAR2 (50 BYTE)
T_LOCATIONS_PK (ID_LOCATION)
PK_LOCATIE (ID_LOCATION)
T_WEATHER_STATIONS
P * ID_WEATHER_STATION NUMBER (5)
NAME VARCHAR2 (50 BYTE)
TYPE VARCHAR2 (50 BYTE)
CHARACTERISTICS VARCHAR2 (255 BYTE)
F ID_LOCATION NUMBER (5)
A1 NUMBER
A2 NUMBER
A3 VARCHAR2 (50 BYTE)
A4 VARCHAR2 (50 BYTE)
A5 VARCHAR2 (50 BYTE)
T_WEATHER_STATIONS_PK (ID_WEATHER_STATION)
FK_WEATHER_STATIONS_LOCATIONS (ID_LOCATION)
T_WEATHER_READINGS
PF * ID_WEATHER_STATION NUMBER (5)
P * RECORDING_DATE VARCHAR2 (30 BYTE)
TEMPERATURE NUMBER (26,5)
WIND_DIRECTION_1 VARCHAR2 (26 BYTE)
WIND_DIRECTION_2 VARCHAR2 (20 BYTE)
WIND_BEARING NUMBER (26,5)
WIND_SPEED_55 NUMBER (26,5)
WIND_SPEED_100 NUMBER (26,5)
PRESSURE NUMBER (26,6)
HUMIDITY NUMBER (26,5)
SOLAR_IRRADIATION NUMBER (26,5)
INSOLATION NUMBER (26,5)
VISIBILITY NUMBER (26,5)
APPARENT_TEMPERATURE NUMBER (26,5)
PRECIPPROBABILITY NUMBER (26,5)
ICON VARCHAR2 (50 BYTE)
SUMMARY VARCHAR2 (50 BYTE)
WIND_SPEED NUMBER (26,5)
WIND_DIRECTION_3 NUMBER (26,5)
CLOUD_COVER NUMBER (26,5)
NEBULOSITY NUMBER (26,5)
PRECIPINTENSITY NUMBER (26,5)
DEWPOINT NUMBER (26,5)
GRADES VARCHAR2 (2 BYTE)
DAY_CODE VARCHAR2 (2 BYTE)
TIMESTAMP_R TIMESTAMP
PK_WEATHER_READING (ID_WEATHER_STATION, RECORDING_DATE)
FK_WEATHER_READINGS (ID_WEATHER_STATION)
PK_WEATHER_READING (ID_WEATHER_STATION, RECORDING_DATE)
T_AGGREGATORS
P * ID_AGGREGATOR NUMBER (6)
* NAME VARCHAR2 (100 BYTE)
TYPE VARCHAR2 (30 BYTE)
EMAIL VARCHAR2 (100 BYTE)
PHONE VARCHAR2 (30 BYTE)
BANK_ACCOUNT VARCHAR2 (20 BYTE)
BANK_NAME VARCHAR2 (50 BYTE)
F ID_LOCATION NUMBER (5)
ADDRESS VARCHAR2 (50 BYTE)
USERNAME VARCHAR2 (50 BYTE)
PASSWORD VARCHAR2 (50 BYTE)
PK_SUPPLIER (ID_AGGREGATOR)
FK_AGGREGATORS_LOCATION (ID_LOCATION)
PK_SUPPLIER (ID_AGGREGATOR)
C##SMARTMLA.T_GENERATION_CONTRACTS
P * ID_CONTRACT VARCHAR2 (20 BYTE)
DATE_START DATE
F ID_AGGREGATOR NUMBER (6)
PRODUCER_NAME VARCHAR2 (50 BYTE)
F ID_GENERATOR VARCHAR2 (20 BYTE)
DETAILS VARCHAR2 (255 BYTE)
T_GENERATION_CONTRACTS_PK (ID_CONTRACT)
FK_GEN_CONTRACTS_AGGREGATOR (ID_AGGREGATOR)
FK_GEN_CONTRACTS_GENERATOR (ID_GENERATOR)
T_GENERATION_CONTRACTS_PK (ID_CONTRACT)
T_CONSUMER_PLACES
PF * ID_CONSUMER_PLACE VARCHAR2 (10 BYTE)
TYPE VARCHAR2 (30 BYTE)
POWER_CONS_MAX NUMBER (10,3)
POWER_GEN_MAX NUMBER (10,3)
NO_PERSONS NUMBER (3)
NO_CHILDREN NUMBER (2)
GAS_FACILITY VARCHAR2 (20 BYTE)
GENERATION_SOURCES VARCHAR2 (20 BYTE)
GENERATION_TYPE VARCHAR2 (20 BYTE)
GEN_CAPACITY VARCHAR2 (10 BYTE)
F ID_LOCATION NUMBER (10)
A2 NUMBER (10)
F ID_LOAD_POINT VARCHAR2 (50 BYTE)
A4 VARCHAR2 (50 BYTE)
A5 VARCHAR2 (50 BYTE)
PK_CONSUMER_PLACE (ID_CONSUMER_PLACE)
FK_CONSUMER_PLACE (ID_CONSUMER_PLACE)
FK_CONSUMER_PLACES_LOCATIONS (ID_LOCATION)
FK_CONSUMER_PLACES_LPOINT (ID_LOAD_POINT)
C##SMARTMLA.T_CONSUMER_TARIFFS
PF * ID_CONSUMER_PLACE VARCHAR2 (10 BYTE)
PF * ID_TARIFF NUMBER (2)
START_DATE DATE
END_DATE DATE
U START_HOUR VARCHAR2 (20 BYTE)
DETAILS VARCHAR2 (50 BYTE)
END_HOUR VARCHAR2 (50 BYTE)
T_CONSUMER_TARIFFS_PK (ID_CONSUMER_PLACE, ID_TA
PK_CONSUMER_TARIFFS (ID_CONSUMER_PLACE, ID_TAR
FK_CONSUMER_PLACE_TARIFFS (ID_CONSUMER_PLACE)
FK_CONSUMER_TARIFFS (ID_TARIFF)
PK_CONSUMER_TARIFFS (ID_CONSUMER_PLACE, ID_TAR
T_CONSUMER_TARIFFS_PK (ID_CONSUMER_PLACE, ID_TA
C##SMARTMLA.T_TARIFFS
P * ID_TARIFF NUMBER (3)
* TARIFF_TYPE VARCHAR2 (15 BYTE)
START_DATE DATE
END_DATE DATE
RECOMMENDED_HOURS VARCHAR2 (10 BYTE)
* MAX_GEN_PRICE NUMBER (10,3)
* MIN_GEN_PRICE NUMBER (10,3)
MAX_CONS_PRICE NUMBER
MIN_CONS_PRICE NUMBER
TARIFF_COMPONENT VARCHAR2 (50 BYTE)
COUNTRY VARCHAR2 (50 BYTE)
DETAILS VARCHAR2 (50 BYTE)
T_TARIFFS_PK (ID_TARIFF)
PK_TARIFF (ID_TARIFF)
C##SMARTMLA.T_TARIFF_RECORDS
F ID_TARIFF NUMBER (2)
HOUR_INTERVAL VARCHAR2 (20 BYTE)
CONSUMPTION_PRICE NUMBER
GENERATION_PRICE NUMBER
RECORDING_DATE TIMESTAMP
T_TARIFF_RECORDS_FK1 (ID_TARIFF)
T_WEATHER_FORECASTS
F ID_WEATHER_STATION NUMBER (5)
RECORDING_DATE VARCHAR2 (30 BYTE)
TEMPERATURE NUMBER (26,5)
WIND_DIRECTION_1 VARCHAR2 (26 BYTE)
WIND_DIRECTION_2 VARCHAR2 (20 BYTE)
WIND_BEARING NUMBER (26,5)
WIND_SPEED_55 NUMBER (26,5)
WIND_SPEED_100 NUMBER (26,5)
PRESSURE NUMBER (26,6)
HUMIDITY NUMBER (26,5)
SOLAR_IRRADIATION NUMBER (26,5)
INSOLATION NUMBER (26,5)
VISIBILITY NUMBER (26,5)
APPARENT_TEMPERATURE NUMBER (26,5)
PRECIPPROBABILITY NUMBER (26,5)
ICON VARCHAR2 (50 BYTE)
SUMMARY VARCHAR2 (50 BYTE)
WIND_SPEED NUMBER (26,5)
WIND_DIRECTION_3 NUMBER (26,5)
CLOUD_COVER NUMBER (26,5)
NEBULOSITY NUMBER (26,5)
PRECIPINTENSITY NUMBER (26,5)
DEWPOINT NUMBER (26,5)
GRADES VARCHAR2 (2 BYTE)
DAY_CODE VARCHAR2 (2 BYTE)
TIMESTAMP_R TIMESTAMP
FK_WEATHER_FORECASTS (ID_WEATHER_STATION)
C##SMARTMLA.T_LOAD_POINTS
P * ID_LOAD_POINT VARCHAR2 (20 BYTE)
NAME VARCHAR2 (50 BYTE)
F ID_LOCATION NUMBER (5)
T_LOAD_POINTS_PK (ID_LOAD_POINT)
T_LOAD_POINTS_FK1 (ID_LOCATION)
T_LOAD_POINTS_PK (ID_LOAD_POINT)
T_APPLIANCE_OPTIMAL_OPER
F * ID_APPLIANCE VARCHAR2 (100 BYTE)
PREFERED_START_HOUR NUMBER (30,10)
OPTIMAL_START_HOUR NUMBER (30,10)
DAY DATE
STATUS NUMBER
FK_APPLIANCE_OPTIMIZATIONS (ID_APPLIANCE)
T_CONSUMER_APPLIANCES
P * ID_APPLIANCE VARCHAR2 (128 BYTE)
MODEL VARCHAR2 (50 BYTE)
DESCRIPTION VARCHAR2 (100 BYTE)
U MAC VARCHAR2 (23 BYTE)
PRODUCER VARCHAR2 (20 BYTE)
STATUS VARCHAR2 (20 BYTE)
F ID_CONSUMER_PLACE VARCHAR2 (10 BYTE)
SERIAL_NO NUMBER (12)
REQUIRED_OPERATION_TIME NUMBER
TIME_BETWEEN_OPER NUMBER
OPERATION_TYPE VARCHAR2 (50 BYTE)
FLEX_TYPE VARCHAR2 (50 BYTE)
ACTIONABLE VARCHAR2 (50 BYTE)
F ID_GATEWAY NUMBER (10)
START_DATE DATE
POWER_MAX_PLUS NUMBER
POWER_MAX_MINUS NUMBER
EFFICIENCY NUMBER
SOC_MAX NUMBER
SOC_MIN NUMBER
NO_OPERATIONS NUMBER
DEVICE_TYPE VARCHAR2 (50 BYTE)
POWER_MIN_PLUS NUMBER
POWER_MIN_MINUS NUMBER
CAPACITY NUMBER
T_ELECTRIC_APPLIANCES_PK (ID_APPLIANCE)
C##SMARTMLA.T_APPLIANCE_READINGS
PF * ID_APPLIANCE VARCHAR2 (128 BYTE)
* POWER_CONS NUMBER (22,16)
POWER_GEN NUMBER (22,16)
STATUS VARCHAR2 (10 BYTE)
VALID VARCHAR2 (10 BYTE)
CURRENT_MA NUMBER (13,2)
VOLTAGE_MV NUMBER (13,2)
TOTAL_MW NUMBER (13,2)
ERR_CODE1 VARCHAR2 (50 BYTE)
ERR_CODE2 VARCHAR2 (50 BYTE)
TIMESTAMP_R TIMESTAMP
PK_APP_READING (ID_APPLIANCE)
FK_APPLIANCE_READINGS (ID_APPLIANCE)
C##SMARTMLA.T_GENERATORS
P * ID_GENERATOR VARCHAR2 (20 BYTE)
TYPE VARCHAR2 (10 BYTE)
NOMINAL_POWER NUMBER (8,2)
SERIAL_NO VARCHAR2 (20 BYTE)
START_DATE DATE
MODEL VARCHAR2 (20 BYTE)
ID_LOCATION NUMBER (5)
DESCRIPTION VARCHAR2 (255 BYTE)
STATUS VARCHAR2 (20 BYTE)
MAX_POWER NUMBER
PMAX_PU NUMBER
NO_OF_UNITS VARCHAR2 (50 BYTE)
MANUFACTURER VARCHAR2 (50 BYTE)
DISPATCHABLE VARCHAR2 (50 BYTE)
F * ID_LOAD_POINT VARCHAR2 (20 BYTE)
ID_CONSUMER_PLACE VARCHAR2 (20 BYTE)
T_GENERATORS_PK (ID_GENERATOR)
FK_GENERATORS_LP (ID_LOAD_POINT)
T_METERS
P * ID_METER NUMBER (12)
F ID_CONSUMER_PLACE VARCHAR2 (10 BYTE)
* DATE_INSTALLATION DATE
START_DATE DATE
TYPE VARCHAR2 (15 BYTE)
A1 NUMBER
A2 NUMBER
VOLTAGE VARCHAR2 (50 BYTE)
A4 VARCHAR2 (50 BYTE)
A5 VARCHAR2 (50 BYTE)
F ID_GATEWAY NUMBER (10)
PK_METER (ID_METER)
FK_METER_CONSUMER_PLACE (ID_CONSUMER_PLACE)
FK_METERS_GATEWAYS (ID_GATEWAY)
C##SMARTMLA.T_METER_READINGS
F ID_METER NUMBER (12)
DATE_READ VARCHAR2 (30 BYTE)
POWER_CONS NUMBER (22,16)
POWER_GEN NUMBER (22,16)
STATUS VARCHAR2 (10 BYTE)
VALID VARCHAR2 (10 BYTE)
A1 NUMBER
A2 NUMBER
A3 VARCHAR2 (50 BYTE)
A4 VARCHAR2 (50 BYTE)
A5 VARCHAR2 (50 BYTE)
TIMESTAMP_R TIMESTAMP
FK_METER_READINGS (ID_METER)
T_GATEWAYS
P * ID_GATEWAY NUMBER (10)
NAME VARCHAR2 (20 BYTE)
DESCRIPTION VARCHAR2 (50 BYTE)
DATE_START DATE
DATE_INSTALLATION DATE
TYPE VARCHAR2 (15 BYTE)
ID_LOCATION NUMBER
A2 NUMBER
A3 VARCHAR2 (50 BYTE)
A4 VARCHAR2 (50 BYTE)
A5 VARCHAR2 (50 BYTE)
PK_ID_GATEWAY (ID_GATEWAY)
PK_ID_GATEWAY (ID_GATEWAY)
T_GENERATOR_READINGS
* ID_UNIT VARCHAR2 (10 BYTE)
STATUS VARCHAR2 (20 BYTE)
* RECORDING_DATE TIMESTAMP
GENERATED_POWER NUMBER (10,3)
ACTIVE_GENERATED_ENERGY NUMBER
REACTIVE_GENERATED_ENERGY NUMBER
ACTIVE_CONSUMED_ENERGY NUMBER
REACTIVE_CONSUMED_ENERGY NUMBER
VOLTAGE NUMBER (20,5)
CURRENT_A NUMBER (20,5)
ENERGY NUMBER
ACTIVE_GEN_POWER NUMBER
REACTIVE_GEN_POWER NUMBER
A1 VARCHAR2 (20 BYTE)
A2 VARCHAR2 (20 BYTE)
A3 NUMBER (20,5)
A4 NUMBER (20,5)
A5 NUMBER
A6 NUMBER
A7 NUMBER
F ID_GENERATOR VARCHAR2 (20 BYTE)
PK_GENERATOR_READINGS (ID_GENERATOR)
T_GENERATOR_FORECASTS
ID_LOCATION NUMBER (5)
* RECORDING_DATE TIMESTAMP
WEATHER_FORECAST1 NUMBER (10,3)
WEATHER_FORECAST2 NUMBER (10,3)
POWER_FORECAST1 NUMBER (10,3)
POWER_FORECAST2 NUMBER (10,3)
F ID_GENERATOR VARCHAR2 (20 BYTE)
ID_UNIT VARCHAR2 (20 BYTE)
FK_GENERATOR_FORECASTS (ID_GENERATOR)
C##SMARTMLA.T_LOAD_POINT_FLEXIBILITY
F ID_LOAD_POINT VARCHAR2 (20 BYTE)
TIMESTAMP_R TIMESTAMP
FLEXIBILITY_AMOUNT NUMBER
MAX_PRICE NUMBER
T_LOAD_POINT_FLEXIBILITY_FK1 (ID_LOAD_POINT)