Entity-Relationship Diagram (database schema). Tables and their columns:

PM_PORTION_SECTIONS
PORTION_SECTION_ID; START_DATE; ACLINE_AC_LINE_SEGMENT_ID; ACLINE_COND_START_DATE; PORTION_SECTION_ID
BACKFILL_BEDDING_TYPE : VARCHAR2; CONDUCTOR_CODE : NUMBER; CREATED_DATE : DATE; END_DATE : DATE; LAST_UPDATED_DATE : DATE; LENGTH_QUALIFIER : VARCHAR2; OHEW_CODE : VARCHAR2; OPERATING_TEMPERATURE : NUMBER; SECTION_GMD : VARCHAR2; SECTION_LAY : VARCHAR2; SECTION_LENGTH : NUMBER; SECTION_NAME : VARCHAR2; SOIL_TYPE : VARCHAR2; SPACING_QUALIFIER : VARCHAR2; THERMAL_RESISTIVITY : NUMBER

PM_AC_LINE_SEGMENTS
AC_LINE_SEGMENT_ID; COND_START_DATE; SUB_START_DATE; SUB_SUBSTATION_ID; AC_LINE_SEGMENT_ID; COND_START_DATE
AC_LINE_SEGMENT_TYPE : VARCHAR2; CREATED_DATE : DATE; END_DATE : DATE; LAST_UPDATED_DATE : DATE; PORTION_NUMBER : VARCHAR2; SAP_PORTION_ID : VARCHAR2

PM_SERIES_ANCILLARY_EQUIPMENT
COND_START_DATE; SERIES_ANCILLARY_EQUIPMENT_ID; COND_START_DATE; SERIES_ANCILLARY_EQUIPMENT_ID; SUB_START_DATE; SUB_SUBSTATION_ID
CREATED_DATE : DATE; END_DATE : DATE; LAST_UPDATED_DATE : DATE; SERIES_ANCILLARY_EQUIP_NAME : VARCHAR2; SERIES_ANCILLARY_EQUIP_TYPE : VARCHAR2; SERIES_ANCILLARY_EQUIP_VOLTAGE : VARCHAR2

PM_POWER_TRANSFORMERS
COND_START_DATE; TRANSFORMER_ID; SERIES_COMPENSATOR_ID; TRANSFORMER_ID; SUB_START_DATE; SUB_SUBSTATION_ID
CREATED_DATE : DATE; END_DATE : DATE; FUZZY : CHAR; LAST_UPDATED_DATE : DATE; PRIMARY_VOLTAGE : VARCHAR2; SECONDARY_VOLTAGE : VARCHAR2; STATUS : VARCHAR2; TRANSFORMER_NAME : VARCHAR2; TRANSFORMER_TYPE : VARCHAR2; TRANS_GRP_GIS_ID : VARCHAR2

PM_SERIES_COMPENSATORS
COND_START_DATE; SERIES_COMPENSATOR_ID; COND_START_DATE; SERIES_COMPENSATOR_ID; SUB_START_DATE; SUB_SUBSTATION_ID
CREATED_DATE : DATE; END_DATE : DATE; LAST_UPDATED_DATE : DATE; SERIES_COMPENSATOR_NAME : VARCHAR2; SERIES_COMPENSATOR_TYPE : VARCHAR2; SERIES_COMP_VOLTAGE : VARCHAR2

PM_SPANS
SPAN_ID; COND_CONDUCTOR_ID; COND_START_DATE; SPAN_ID
FUZZY : CHAR; LAST_UPDATED_DATE : DATE; END_DATE : DATE; TISLAND_TOPOLOGICAL_ISLAND_ID; TNODE_TOPOLOGICAL_NODE_ID1; TNODE_TOPOLOGICAL_NODE_ID2; CREATED_DATE : DATE; LAST_UPDATED_DATE : DATE

PM_CNODE_TNODES
CNODE_CONNECTIVITY_NODE_ID; CNODE_START_DATE; TNODE_TOPOLOGICAL_NODE_ID1; CNODE_CONNECTIVITY_NODE_ID; CNODE_START_DATE; TNODE_TOPOLOGICAL_NODE_ID2
CREATED_DATE : DATE; LAST_UPDATED_DATE : DATE

PM_SHUNT_COMPENSATORS
REG_COND_START_DATE; SHUNT_COMPENSATOR_ID; REG_COND_START_DATE; SHUNT_COMPENSATOR_ID; SUB_START_DATE; SUB_SUBSTATION_ID
CREATED_DATE : DATE; END_DATE : DATE; LAST_UPDATED_DATE : DATE; SHUNT_COMPENSATOR_NAME : VARCHAR2; SHUNT_COMPENSATOR_TYPE : VARCHAR2; SHUNT_COMPENSATOR_VOLTAGE : VARCHAR2

PM_SHUNT_ANCILLARY_EQUIPMENT
REG_COND_START_DATE; SHUNT_ANCILLARY_EQUIPMENT_ID; REG_COND_START_DATE; SHUNT_ANCILLARY_EQUIPMENT_ID; SUB_START_DATE; SUB_SUBSTATION_ID
CREATED_DATE : DATE; END_DATE : DATE; LAST_UPDATED_DATE : DATE; SHUNT_ANCILLARY_EQUIP_NAME : VARCHAR2; SHUNT_ANCILLARY_EQUIP_TYPE : VARCHAR2; SHUNT_ANCILLARY_EQUIP_VOLTAGE : VARCHAR2

PM_SWITCH_TISLANDS
SWITCH_SWITCH_ID; SWITCH_START_DATE; TISLAND_TOPOLOGICAL_ISLAND_ID; SWITCH_SWITCH_ID; SWITCH_START_DATE; TISLAND_TOPOLOGICAL_ISLAND_ID
CREATED_DATE : DATE; LAST_UPDATED_DATE : DATE

PM_BUSBARS
BUSBAR_ID; CONN_START_DATE; BUSBAR_ID; CONN_START_DATE; SUB_START_DATE; SUB_SUBSTATION_ID
CREATED_DATE : DATE; LAST_UPDATED_DATE : DATE

PM_SWITCH_STATES
START_DATE; SW_SWITCH_ID; SW_START_DATE; SW_SWITCH_ID
CREATED_DATE : DATE; DNMS_NORMAL_STATE : NUMBER; DYNAMIC_STATE : NUMBER; END_DATE : DATE; MANUAL_DRESSED : VARCHAR2; PLANNED_FLAG : VARCHAR2

PM_UGOHS
CONN_START_DATE; UGOH_ID; CONN_START_DATE; UGOH_ID
CREATED_DATE : DATE; END_DATE : DATE; FUZZY : VARCHAR2; LAST_UPDATED_DATE : DATE

PM_JUNCTIONS
CONN_START_DATE; JUNCTION_ID; CONN_START_DATE; JUNCTION_ID
CREATED_DATE : DATE; END_DATE : DATE; FUZZY : VARCHAR2; LAST_UPDATED_DATE : DATE

PM_MEAS_POINT_TYPES
MTYPE_MEAS_TYPE_ID; RPT_REMOTE_PT_ID; RPT_START_DATE; MTYPE_MEAS_TYPE_ID; RPT_REMOTE_PT_ID; RPT_START_DATE
CREATED_DATE : DATE; LAST_UPDATED_DATE : DATE

VALIDATION_CONFIGURATION
CODE
ACTIVE : VARCHAR2; CREATED_DATE : DATE; EMAIL_TO_DLS : VARCHAR2; EMAIL_TO_PH : VARCHAR2; LAST_UPDATED_DATE : DATE; PHASE : VARCHAR2; RULE_SQL : VARCHAR2; RULE_TYPE : VARCHAR2

ETL_ERRORS
ERROR_ID; VCONFIG_ERROR_CODE
AREA_NUMBER : VARCHAR2; BATCH_OD : VARCHAR2; CREATED_DATE : DATE; EMAIL_ERROR : VARCHAR2; ERROR_DETAILS : VARCHAR2; ERROR_PHASE : VARCHAR2; ERROR_PROCESSED : VARCHAR2; ERROR_TYPE : VARCHAR2; ID_TYPE : VARCHAR2; NODE_ID : VARCHAR2; NODE_TYPE : VARCHAR2

ST_FDR_NODE_COMB
FNT_PREFIX_CODE
CHAR_ID : VARCHAR2; CHECK_SUFFIX_NUM : VARCHAR2; SUFFIX : VARCHAR2

ST_FDR_NODE_TYPES
NODE_TYPE
DESCRIPTION : VARCHAR2; FULL_DESCRIPTION : VARCHAR2; REQUIRE_VALIDATION : VARCHAR2

PM_CONDUCTORS
CONDUCTOR_ID; CONDUCTOR_ID; TERM_TERMINAL_ID1; TERM_TERMINAL_ID2
CREATED_DATE : DATE; END_DATE : DATE; LAST_UPDATED_DATE : DATE

PM_TOPOLOGICAL_NODES
TOPOLOGICAL_NODE_ID; TOPOLOGICAL_NODE_ID; SUB_START_DATE; SUB_SUBSTATION_ID; TISLAND_START_DATE; TISLAND_TOPOLOGICAL_ISLAND_ID
CONTAINS_TRANSFORMER_CNODE : VARCHAR2; CREATED_DATE : DATE; LAST_UPDATED_DATE : DATE; LATITUDE : FLOAT; LONGITUDE : FLOAT

PM_REG_CONDUCTING_EQUIPMENT
REGULATING_CONDUCTING_EQUIP_ID; START_DATE; REGULATING_CONDUCTING_EQUIP_ID; TERM_TERMINAL_ID
CREATED_DATE : DATE; END_DATE : DATE; LAST_UPDATED_DATE : DATE

PM_ENERGY_CONSUMERS
ENERGY_CONSUMER_ID; START_DATE; ENERGY_CONSUMER_ID; SUB_START_DATE; SUB_SUBSTATION_ID; TERM_TERMINAL_ID
CREATED_DATE : DATE; CUSTOMER_COUNT : NUMBER; END_DATE : DATE; LAST_UPDATED_DATE : DATE

PM_POWER_TRANSFORMERS_3WDG
START_DATE; TRANSFORMER_3WDG_ID; TRANSFORMER_3WDG_ID; SUB_START_DATE; SUB_SUBSTATION_ID; TERM_TERMINAL_ID1; TERM_TERMINAL_ID2; TERM_TERMINAL_ID3
CREATED_DATE : DATE; END_DATE : DATE; LAST_UPDATED_DATE : DATE; STATUS : VARCHAR2; TRANSFORMER_3WDG_NAME : VARCHAR2

PM_SWITCHES
START_DATE; SWITCH_ID; SWITCH_ID; SUB_START_DATE; SUB_SUBSTATION_ID; TERM_TERMINAL_ID1; TERM_TERMINAL_ID2
BAY_NAME : VARCHAR2; BUS_SECTION : VARCHAR2; CREATED_DATE : DATE; DYNAMIC_STATE : NUMBER; END_DATE : DATE; FEEDER_ID : VARCHAR2; FOREIGN_FEEDER_HEAD : VARCHAR2; FUZZY : CHAR; LAST_UPDATED_DATE : DATE; NMI : VARCHAR2; NORMAL_STATE : NUMBER; OPERATING_VOLTAGE : VARCHAR2; REGION_NAME : VARCHAR2; SUB_REGION_NAME : VARCHAR2; SWITCH_NAME : VARCHAR2; SWITCH_TYPE : VARCHAR2

PM_ENERGY_SOURCES
ENERGY_SOURCE_ID; START_DATE; ENERGY_SOURCE_ID; TERM_TERMINAL_ID
CREATED_DATE : DATE; END_DATE : DATE; LAST_UPDATED_DATE : DATE

PM_CONNECTORS
CONNECTOR_ID; START_DATE; CONNECTOR_ID; TERM_TERMINAL_ID
CREATED_DATE : DATE; END_DATE : DATE; LAST_UPDATED_DATE : DATE

PM_TAP_CHANGERS
START_DATE; TAP_CHANGER_ID; TAP_CHANGER_ID; TERM_TERMINAL_ID
CREATED_DATE : DATE; LAST_UPDATED_DATE : DATE; NUM_OLTC_TAP_STEPS : NUMBER; TAP_RANGE_HIGH_PERC_ONL : NUMBER; TAP_RANGE_LOW_PERC_ONL : NUMBER; TAP_STEP_PERC_ON_LOAD : NUMBER

PM_REMOTE_POINTS
REMOTE_PT_ID; START_DATE; REMOTE_PT_ID; RMU_REMOTE_UNIT_ID; RMU_START_DATE; TERM_TERMINAL_ID
CREATED_DATE : DATE; END_DATE : DATE; HISTORIAN_ID : VARCHAR2; LAST_UPDATED_DATE : DATE; REMOTE_POINT_STATUS : VARCHAR2

PM_MEASUREMENTS
MEASUREMENT_ID; START_DATE; MEASUREMENT_ID; IO_MR_ID; MTYPE_MEAS_TYPE_ID; SUB_START_DATE; SUB_SUBSTATION_ID; TERM_TERMINAL_ID; UNIT_NAME; VAS_START_DATE; VAS_VALUE_ALIAS_SET_ID
CREATED_DATE : DATE; DESCRIPTION : VARCHAR2; END_DATE : DATE; LAST_UPDATED_DATE : DATE; NORMAL_STATE : VARCHAR2; TRANSFORMER_RATIO : NUMBER; UNMATCHED_EA_ID : VARCHAR2

PM_MEASUREMENT_TYPES
MEAS_TYPE_ID; MEAS_TYPE_ID; UN_UNIT_NAME; VAS_START_DATE; VAS_VALUE_ALIAS_SET_ID
CREATED_DATE : DATE; DESCRIPTION : VARCHAR2; LAST_UPDATED_DATE : DATE; LONG_DESCRIPTION : VARCHAR2; MEASUREMENT_SOURCE : VARCHAR2; MEAS_TYPE_CATEGORY : VARCHAR2; MEAS_VALUE_TYPE : VARCHAR2; VISUALISATION_FLAG : VARCHAR2

PM_VALUE_TO_ALIASES
VALUE; VAS_START_DATE; VAS_VALUE_ALIAS_SET_ID; VAS_START_DATE; VAS_VALUE_ALIAS_SET_ID
CREATED_DATE : DATE; END_DATE : DATE; LAST_UPDATED_DATE : DATE; VALUE_ALIAS : VARCHAR2

PM_TOPOLOGICAL_ISLANDS
START_DATE; TOPOLOGICAL_ISLAND_ID; TOPOLOGICAL_ISLAND_ID
AREA_NUMBER : VARCHAR2; CREATED_DATE : DATE; CUSTOMER_COUNT : NUMBER; END_DATE : DATE; FEEDER_ID : VARCHAR2; FUZZY : VARCHAR2; IS_NORMAL_DYNAMIC : VARCHAR2; LAST_UPDATED_DATE : DATE; SUBSTATION_COUNT : NUMBER

PM_TERMINALS
TERMINAL_ID; CNODE_CONNECTIVITY_NODE_ID; CNODE_START_DATE; TERMINAL_ID
CREATED_DATE : DATE; ETL_COND_NAME : VARCHAR2; END_DATE : DATE; LAST_UPDATED_DATE : DATE; PM_TYPE : VARCHAR2; PORTION_NUMBER : VARCHAR2; START_DATE : DATE

PM_REMOTE_UNITS
REMOTE_UNIT_ID; START_DATE; SUB_START_DATE; SUB_SUBSTATION_ID
CREATED_DATE : DATE; END_DATE : DATE; LAST_UPDATED_DATE : DATE; REMOTE_UNIT_STATUS : VARCHAR2

PM_DIAGRAM_OBJECT_POINTS
OBJECT_POINT_ID; DO_OBJECT_ID; DO_START_DATE; OBJECT_POINT_ID
CREATED_DATE : DATE; LAST_UPDATED_DATE : DATE; SEQUENCE_NUMBER : NUMBER; X_POSITION : VARCHAR2; Y_POSITION : VARCHAR2

PM_OPERATIONAL_LIMITS
OPERATIONAL_LIMIT_ID; START_DATE; OPERATIONAL_LIMIT_ID; SUB_START_DATE; SUB_SUBSTATION_ID; UN_UNIT_NAME
CREATED_DATE : DATE; END_DATE : DATE; LOAD_CYCLE : VARCHAR2; PSR_EAID : VARCHAR2; RATING_SOURCE : VARCHAR2; RATING_STATUS : VARCHAR2; RATING_TYPE : VARCHAR2; RATING_VALUE : VARCHAR2; SEASON : VARCHAR2; THROUGHPUT_TYPE : VARCHAR2

PM_CONNECTIVITY_NODES
CONNECTIVITY_NODE_ID; START_DATE; CONNECTIVITY_NODE_ID; SUB_START_DATE; SUB_SUBSTATION_ID
CNODE_START_DATE : VARCHAR2; CREATED_DATE : DATE; END_DATE : DATE; LAST_UPDATED_DATE : DATE; LATITUDE : FLOAT; LONGITUDE : FLOAT; REGION_NAME : VARCHAR2; STATUS : VARCHAR2; SUB_REGION_NAME : VARCHAR2

PM_DIAGRAM_OBJECTS
OBJECT_ID; START_DATE; DIA_DIAGRAM_ID; DIA_START_DATE; OBJECT_ID; IO_MR_ID
CREATED_DATE : DATE; DESCRIPTION : VARCHAR2; EAID : VARCHAR2; ELEMENT_NAME : VARCHAR2; ELEMENT_TYPE : VARCHAR2; ELEMENT_VOLTAGE : VARCHAR2; END_DATE : DATE; IS_POLYGON : VARCHAR2; LAST_UPDATED_DATE : DATE; LAYER_NUMBERS : VARCHAR2; NORMAL_STATE : NUMBER; PLANT_ID : VARCHAR2; PM_TYPE : VARCHAR2; ROTATION : VARCHAR2; X_FLIP : NUMBER; X_ORIGIN : VARCHAR2; Y_FLIP : NUMBER; Y_ORIGIN : VARCHAR2; ZONE_SUBSTATION : VARCHAR2; Z_FLIP : NUMBER

PM_DIAGRAM_LAYERS
DIAGRAM_LAYER_ID; DIA_DIAGRAM_ID; DIA_START_DATE; DIAGRAM_LAYER_ID
CREATED_DATE : DATE; IMAGE : BLOB; LAST_UPDATED_DATE : DATE; LAYER_EXTRACT_DATE : DATE; LAYER_NAME : VARCHAR2; LAYER_NUMBER : NUMBER; X_IMAGE_SIZE : VARCHAR2; Y_IMAGE_SIZE : VARCHAR2

PM_UNITS
UNIT_NAME
CREATED_DATE : DATE; DESCRIPTION : VARCHAR2; LAST_UPDATED_DATE : DATE

PM_IO_LINES
IO_MR_ID; LINES_LINE_ID; LINES_START_DATE; IO_MR_ID; LINES_LINE_ID; LINES_START_DATE
CREATED_DATE : DATE; END_DATE : DATE; LAST_UPDATED_DATE : DATE

PM_EA_DETAILS
EA_ENERGY_AREA_ID; IO_MR_ID; EA_ENERGY_AREA_ID; IO_MR_ID
CREATED_DATE : DATE; END_DATE : DATE; LAST_UPDATED_DATE : DATE; SUB_COUNT : NUMBER

PM_IO_EA
EA_ENERGY_AREA_ID; IO_MR_ID; EA_ENERGY_AREA_ID; IO_MR_ID
CREATED_DATE : DATE; END_DATE : DATE; LAST_UPDATED_DATE : DATE

PM_IO_BV
BV_BASE_VOLTAGE_ID; IO_MR_ID; BV_BASE_VOLTAGE_ID; IO_MR_ID
CREATED_DATE : DATE; END_DATE : DATE; LAST_UPDATED_DATE : DATE

BV_IO_BV
BV_BASE_VOLTAGE_ID; IO_MR_ID; SEQUENCE_NUMBER; START_DATE

PM_VALUE_ALIAS_SETS
VALUE_ALIAS_SET_ID; START_DATE; VALUE_ALIAS_SET_ID
CREATED_DATE : DATE; END_DATE : DATE; LAST_UPDATED_DATE : DATE; VALUE_ALIAS_SET_NAME : VARCHAR2

PM_SUBSTATIONS
START_DATE; SUBSTATION_ID; SUBSTATION_ID; PCCC_PRIMARY_CLASS_CODE
AREA_NUMBER : VARCHAR2; CREATED_DATE : DATE; DISTRIBUTOR_COUNT : NUMBER; END_DATE : DATE; EQUIPMENT_ID : VARCHAR2; FUZZY : CHAR; LAST_UPDATED_DATE : DATE; LATITUDE : FLOAT; LONGITUDE : FLOAT; REGION_NAME : VARCHAR2; STATION_ID : VARCHAR2; STATUS : VARCHAR2; SUBSTATION_NAME : VARCHAR2; SUBSTATION_TYPE : VARCHAR2; SUB_REGION_NAME : VARCHAR2; TRANSFORMER_COUNT : NUMBER

PM_DIAGRAM_SUBS
DIA_DIAGRAM_ID; DIA_START_DATE; SUB_START_DATE; SUB_SUBSTATION_ID; DIA_DIAGRAM_ID; DIA_START_DATE; SUB_START_DATE; SUB_SUBSTATION_ID
CREATED_DATE : DATE; END_DATE : DATE; LAST_UPDATED_DATE : DATE

PM_DIAGRAMS
DIAGRAM_ID; START_DATE; DIAGRAM_ID
CREATED_DATE : DATE; DESCRIPTION : VARCHAR2; END_DATE : DATE; BATCH_ID : VARCHAR2; DIAGRAM_VERSION : VARCHAR2; EXTRACT_DATE : DATE; LAST_UPDATED_DATE : DATE; X_BOTTOM_LEFT : VARCHAR2; X_TOP_RIGHT : VARCHAR2; Y_BOTTOM_LEFT : VARCHAR2; Y_TOP_RIGHT : VARCHAR2

ETL_NOTIFICATIONS
NOTIFICATION_ID; IO_MR_ID
ACTION : VARCHAR2; BATCH_ID : VARCHAR2; CREATED_DATE : DATE; EVENT_DATE : DATE; LAST_UPDATED_DATE : DATE; NOTIFICATION_TYPE : VARCHAR2; PM_SUB_TYPE : VARCHAR2; PM_TYPE : VARCHAR2; STATUS : VARCHAR2; VALIDATION_ERROR_FLG : VARCHAR2

PM_SUBGEOGRAPHICAL_REGIONS
SUBGEOGRAPHICAL_REGION_ID; SUBGEOGRAPHICAL_REGION_ID
CREATED_DATE : DATE; LAST_UPDATED_DATE : DATE; SUBREGION_NAME : VARCHAR2

PM_LINES
LINE_ID; START_DATE; LINE_ID
CREATED_DATE : DATE; END_DATE : DATE; FUZZY : CHAR; LAST_UPDATED_DATE : DATE; LINE_LENGTH : NUMBER; LINE_NAME : VARCHAR2; LINE_TYPE : VARCHAR2; PORTION_COUNT : NUMBER; SRC_IMPEDENCE_INDICATOR : VARCHAR2; VOLTAGE : VARCHAR2

PM_ENERGY_AREAS
ENERGY_AREA_ID; ENERGY_AREA_ID
CREATED_DATE : DATE; ENERGY_AREA_NAME : VARCHAR2; ENERGY_AREA_NUMBER : VARCHAR2; LAST_UPDATED_DATE : DATE; NETWORK_LEVEL : VARCHAR2

PM_KEY_TRANSLATIONS
KEY_TRANS_ID; IO_MR_ID; KEY_TRANS_ID
CREATED_DATE : DATE; LAST_UPDATED_DATE : DATE; PM_TYPE : VARCHAR2; SYSTEM_KEY : VARCHAR2; SYSTEM_KEY2 : VARCHAR2; SYSTEM_NAME : VARCHAR2

PM_BASE_VOLTAGES
BASE_VOLTAGE_ID; BASE_VOLTAGE_ID
CREATED_DATE : DATE; LAST_UPDATED_DATE : DATE; NOMINAL_VOLTAGE : VARCHAR2

PM_PRIMARY_CLASS_CODE_CATEGORY
PRIMARY_CLASS_CODE
CREATED_DATE : DATE; LAST_UPDATED_DATE : DATE; PRIMARY_CLASS_CODE_CATEGORY : VARCHAR2

PM_IDENTIFIED_OBJECTS
MR_ID
CREATED_DATE : DATE; LAST_UPDATED_DATE : DATE; PM_TYPE : VARCHAR2