PM_CONDUCTORS
- CONDUCTOR_ID
- START_DATE
- END_DATE
- CREATED_DATE
- LAST_UPDATED_DATE
- TERM_TERMINAL_ID1
- TERM_TERMINAL_ID2

PM_TOPOLOGICAL_ISLANDS
- START_DATE
- TOPOLOGICAL_ISLAND_ID
- AREA_NUMBER
- CREATED_DATE
- CUSTOMER_COUNT
- END_DATE
- FEEDER_ID
- FUZZY
- IS_NORMAL_DYNAMIC
- LAST_UPDATED_DATE
- SUBSTATION_COUNT

TOPOLOGICAL_NODE_ID
- CONTAINS_TRANSFORMER_CNODE
- CREATED_DATE
- LAST_UPDATED_DATE
- LATITUDE
- LONGITUDE
- SUB_START_DATE
- SUB_SUBSTATION_ID
- TISLAND_START_DATE
- TISLAND_TOPOLOGICAL_ISLAND_ID

PM_REG_CONDUCTING_EQUIPMENT
- REGULATING_CONDUCTING_EQUIP_ID
- CREATED_DATE
- START_DATE
- END_DATE
- LAST_UPDATED_DATE
- TERM_TERMINAL_ID

PM_PRIMARY_CLASS_CODE
- PRIMARY_CLASS_CODE_CATEGORY
- CREATED_DATE
- LAST_UPDATED_DATE
- PRIMARY_CLASS_CODE_CATEGORY

PM_SUBSTATIONS
- START_DATE
- SUBSTATION_ID
- AREA_NUMBER
- CREATED_DATE
- DISTRIBUTOR_COUNT
- END_DATE
- EQUIPMENT_ID
- FUZZY
- LAST_UPDATED_DATE
- LATITUDE
- LONGITUDE
- PCCC_PRIMARY_CLASS_CODE
- REGION_NAME
- STATION_ID
- STATUS
- SUBSTATION_NAME
- SUBSTATION_TYPE
- SUB_REGION_NAME
- TRANSFORMER_COUNT

PM_CONNECTIVITY_NODES
- CONNECTIVITY_NODE_ID
- START_DATE
- CNODE_TYPE
- CREATED_DATE
- END_DATE
- LAST_UPDATED_DATE
- LATITUDE
- LONGITUDE
- REGION_NAME
- STATUS
- SUB_REGION_NAME
- SUB_START_DATE
- SUB_SUBSTATION_ID

PM_TERMINALS
- TERMINAL_ID
- CNODE_CONNECTIVITY_NODE_ID
- CNODE_START_DATE
- CREATED_DATE
- END_DATE
- ETL_COND_NAME
- LAST_UPDATED_DATE
- PM_TYPE
- PORTION_NUMBER
- START_DATE

PM_REMOTE_UNITS
- REMOTE_UNIT_ID
- START_DATE
- CREATED_DATE
- END_DATE
- LAST_UPDATED_DATE
- REMOTE_UNIT_STATUS
- SUB_START_DATE
- SUB_SUBSTATION_ID

PM_ENERGY_CONSUMERS
- ENERGY_CONSUMER_ID
- FEEDER_ID
- START_DATE
- CREATED_DATE
- CUSTOMER_COUNT
- END_DATE
- LAST_UPDATED_DATE
- SUB_START_DATE
- SUB_SUBSTATION_ID
- TERM_TERMINAL_ID

(partial table)
- END_DATE
- FEEDER_ID
- FOREIGN_FEEDER_HEAD
- FUZZY
- LAST_UPDATED_DATE
- NMI
- NORMAL_STATE
- OPERATING_VOLTAGE
- REGION_NAME
- STATUS
- SUB_REGION_NAME
- SUB_START_DATE
- SUB_SUBSTATION_ID
- SWITCH_NAME
- SWITCH_TYPE
- TERM_TERMINAL_ID1
- TERM_TERMINAL_ID2

TRANSFORMER_3WDG_ID
- CREATED_DATE
- END_DATE
- LAST_UPDATED_DATE
- STATUS
- SUB_START_DATE
- SUB_SUBSTATION_ID
- TERM_TERMINAL_ID1
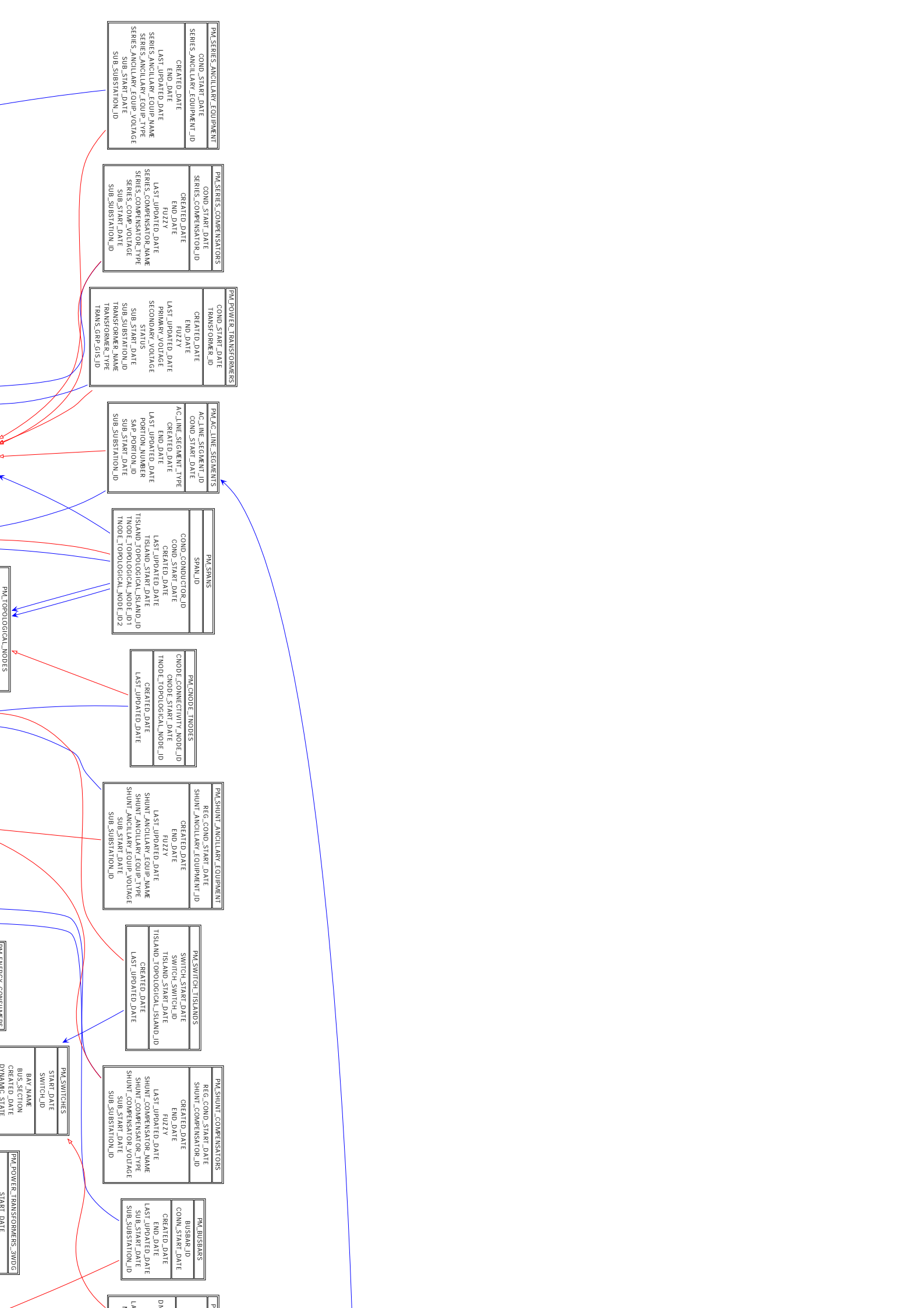- TERM_TERMINAL_ID2
- TERM_TERMINAL_ID3
- TRANSFORMER_3WDG_NAME

PM_SERIES_ANCILLARY_EQUIPMENT
- COND_START_DATE
- SERIES_ANCILLARY_EQUIPMENT_ID
- CREATED_DATE
- END_DATE
- LAST_UPDATED_DATE
- SERIES_ANCILLARY_EQUIP_NAME
- SERIES_ANCILLARY_EQUIP_TYPE
- SERIES_ANCILLARY_EQUIP_VOLTAGE
- SUB_START_DATE
- SUB_SUBSTATION_ID

PM_SERIES_COMPENSATORS
- COND_START_DATE
- SERIES_COMPENSATOR_ID
- CREATED_DATE
- END_DATE
- FUZZY
- LAST_UPDATED_DATE
- SERIES_COMPENSATOR_NAME
- SERIES_COMPENSATOR_TYPE
- SERIES_COMP_VOLTAGE
- SUB_START_DATE
- SUB_SUBSTATION_ID

PM_POWER_TRANSFORMERS
- COND_START_DATE
- TRANSFORMER_ID
- CREATED_DATE
- END_DATE
- FUZZY
- LAST_UPDATED_DATE
- PRIMARY_VOLTAGE
- SECONDARY_VOLTAGE
- STATUS
- SUB_START_DATE
- SUB_SUBSTATION_ID
- TRANSFORMER_NAME
- TRANSFORMER_TYPE
- TRANS_GRP_GIS_ID

PM_AC_LINE_SEGMENTS
- AC_LINE_SEGMENT_ID
- COND_START_DATE
- AC_LINE_SEGMENT_TYPE
- CREATED_DATE
- END_DATE
- LAST_UPDATED_DATE
- PORTION_NUMBER
- SAP_PORTION_ID
- SUB_START_DATE
- SUB_SUBSTATION_ID

PM_SPANS
- SPAN_ID
- COND_CONDUCTOR_ID
- COND_START_DATE
- CREATED_DATE
- LAST_UPDATED_DATE
- TISLAND_START_DATE
- TISLAND_TOPOLOGICAL_ISLAND_ID
- TNODE_TOPOLOGICAL_NODE_ID1
- TNODE_TOPOLOGICAL_NODE_ID2

PM_CNODE_TNODES
- CNODE_CONNECTIVITY_NODE_ID
- CNODE_START_DATE
- TNODE_TOPOLOGICAL_NODE_ID
- CREATED_DATE
- LAST_UPDATED_DATE

PM_SHUNT_ANCILLARY_EQUIPMENT
- REG_COND_START_DATE
- SHUNT_ANCILLARY_EQUIPMENT_ID
- CREATED_DATE
- END_DATE
- FUZZY
- LAST_UPDATED_DATE
- SHUNT_ANCILLARY_EQUIP_NAME
- SHUNT_ANCILLARY_EQUIP_TYPE
- SHUNT_ANCILLARY_EQUIP_VOLTAGE
- SUB_START_DATE
- SUB_SUBSTATION_ID

PM_SWITCH_TISLANDS
- SWITCH_START_DATE
- SWITCH_SWITCH_ID
- TISLAND_START_DATE
- TISLAND_TOPOLOGICAL_ISLAND_ID
- CREATED_DATE
- LAST_UPDATED_DATE

PM_SHUNT_COMPENSATORS
- REG_COND_START_DATE
- SHUNT_COMPENSATOR_ID
- CREATED_DATE
- END_DATE
- FUZZY
- LAST_UPDATED_DATE
- SHUNT_COMPENSATOR_NAME
- SHUNT_COMPENSATOR_TYPE
- SHUNT_COMPENSATOR_VOLTAGE
- SUB_START_DATE
- SUB_SUBSTATION_ID

PM_SWITCHES
- START_DATE
- SWITCH_ID
- BAY_NAME
- BUS_SECTION
- CREATED_DATE
- DYNAMIC_STATE

PM_BUSBARS
- BUSBAR_ID
- CONN_START_DATE
- CREATED_DATE
- END_DATE
- LAST_UPDATED_DATE
- SUB_START_DATE
- SUB_SUBSTATION_ID

PM_TOPOLOGICAL_NODES

PM_POWER_TRANSFORMERS_3WDG
- START_DATE

Database Entity-Relationship Diagram (tables and columns)

PM_IDENTIFIED_OBJECTS
- CREATED_DATE
- LAST_UPDATED_DATE
- PM_TYPE

MR_ID
- CREATED_DATE
- LAST_UPDATED_DATE
- PM_TYPE

PM_DIAGRAM_SUBS
- DIA_DIAGRAM_ID
- DIA_START_DATE
- START_DATE
- SUB_START_DATE
- SUB_SUBSTATION_ID
- CREATED_DATE
- END_DATE
- LAST_UPDATED_DATE

PM_DIAGRAM_OBJECT_POINTS
- OBJECT_POINT_ID
- CREATED_DATE
- DO_OBJECT_ID
- DO_START_DATE
- LAST_UPDATED_DATE
- SEQUENCE_NUMBER
- X_POSITION
- Y_POSITION

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

PM_DIAGRAMS
- DIAGRAM_ID
- START_DATE
- CREATED_DATE
- DESCRIPTION
- DIAGRAM_NAME
- DIAGRAM_VERSION
- END_DATE
- EXTRACT_DATE
- LAST_UPDATED_DATE
- X_BOTTOM_LEFT
- X_TOP_RIGHT
- Y_BOTTOM_LEFT
- Y_TOP_RIGHT

PM_DIAGRAM_LAYERS
- DIAGRAM_LAYER_ID
- CREATED_DATE
- DIA_DIAGRAM_ID
- DIA_START_DATE
- IMAGE
- LAST_UPDATED_DATE
- LAYER_EXTRACT_DATE
- LAYER_NAME
- LAYER_NUMBER
- X_IMAGE_SIZE
- Y_IMAGE_SIZE

ETL_NOTIFICATIONS
- NOTIFICATION_ID
- ACTION
- BATCH_ID
- CREATED_DATE
- EVENT_DATE
- IO_MR_ID
- LAST_UPDATED_DATE
- NOTIFICATION_TYPE
- PM_SUB_TYPE
- PM_TYPE
- STATUS
- VALIDATION_ERROR_FLG

PM_SUBGEOGRAPHICAL_REGIONS
- SUBGEOGRAPHICAL_REGION_ID
- CREATED_DATE
- LAST_UPDATED_DATE
- SUBREGION_NAME

PM_UNITS
- UNIT_NAME
- CREATED_DATE
- DESCRIPTION
- LAST_UPDATED_DATE

PM_OPERATIONAL_LIMITS
- OPERATIONAL_LIMIT_ID
- START_DATE
- CREATED_DATE
- END_DATE
- LAST_UPDATED_DATE
- LOAD_CYCLE
- PSR_EAID
- RATING_SOURCE
- RATING_STATUS
- RATING_TYPE
- RATING_VALUE
- SEASON
- SUB_START_DATE
- SUB_SUBSTATION_ID
- THROUGHPUT_TYPE
- UN_UNIT_NAME

PM_MEASUREMENT_TYPES
- MEAS_TYPE_ID
- CREATED_DATE
- DESCRIPTION
- END_DATE
- LAST_UPDATED_DATE
- LONG_DESCRIPTION
- MEASUREMENT_SOURCE
- MEAS_TYPE_CATEGORY
- MEAS_VALUE_TYPE
- UN_UNIT_NAME
- VAS_START_DATE
- VAS_VALUE_ALIAS_SET_ID
- VISUALISATION_FLAG

(MEAS_TYPE_ID / related)
- START_DATE
- END_DATE
- IO_MR_ID
- LAST_UPDATED_DATE
- MEAS_VALUE_TYPE
- MTYPE_MEAS_TYPE_ID
- NORMAL_STATE
- SUB_START_DATE
- SUB_SUBSTATION_ID
- TERM_TERMINAL_ID
- TRANSFORMER_RATIO
- UNMATCHED_EA_ID
- UN_UNIT_NAME
- VAS_START_DATE
- VAS_VALUE_ALIAS_SET_ID

PM_VALUE_ALIAS_SETS
- START_DATE
- VALUE_ALIAS_SET_ID
- CREATED_DATE
- END_DATE
- LAST_UPDATED_DATE
- VALUE_ALIAS_SET_NAME

PM_VALUE_TO_ALIASES
- VALUE
- VAS_START_DATE
- VAS_VALUE_ALIAS_SET_ID
- CREATED_DATE
- LAST_UPDATED_DATE
- VALUE_ALIAS

PM_LINES
- LINE_ID
- START_DATE
- CREATED_DATE
- END_DATE
- FUZZY
- LAST_UPDATED_DATE
- LINE_LENGTH
- LINE_NAME
- LINE_TYPE
- PORTION_COUNT
- SRC_IMPEDANCE_INDICATOR
- VOLTAGE

PM_IO_LINES
- IO_MR_ID
- LINES_LINE_ID
- LINES_START_DATE
- START_DATE
- CREATED_DATE
- END_DATE
- LAST_UPDATED_DATE
- PM_TYPE

PM_IO_EA
- EA_ENERGY_AREA_ID
- IO_MR_ID
- START_DATE
- CREATED_DATE
- END_DATE
- LAST_UPDATED_DATE

PM_ENERGY_AREAS
- ENERGY_AREA_ID
- CREATED_DATE
- ENERGY_AREA_NAME
- ENERGY_AREA_NUMBER
- LAST_UPDATED_DATE
- NETWORK_LEVEL

PM_EA_DETAILS
- EA_ENERGY_AREA_ID
- START_DATE
- CREATED_DATE
- END_DATE
- LAST_UPDATED_DATE
- SUB_COUNT

PM_KEY_TRANSLATIONS
- KEY_TRANS_ID
- CREATED_DATE
- IO_MR_ID
- LAST_UPDATED_DATE
- PM_SUB_TYPE
- PM_TYPE
- STATUS
- SYSTEM_KEY
- SYSTEM_KEY2
- SYSTEM_NAME

PM_IO_BV
- BV_BASE_VOLTAGE_ID
- IO_MR_ID
- SEQUENCE_NUMBER
- START_DATE
- CREATED_DATE
- END_DATE
- LAST_UPDATED_DATE
- PM_TYPE

PM_BASE_VOLTAGES
- BASE_VOLTAGE_ID
- CREATED_DATE
- LAST_UPDATED_DATE
- NOMINAL_VOLTAGE

A_CONNECTORS / CONNECTOR_ID
- START_DATE
- CREATED_DATE
- END_DATE
- LAST_UPDATED_DATE
- TERM_TERMINAL_ID

REMOTE_PT_ID
- START_DATE
- CREATED_DATE
- END_DATE
- HISTORIAN_ID
- LAST_UPDATED_DATE
- REMOTE_POINT_STATUS
- RMU_REMOTE_UNIT_ID
- RMU_START_DATE
- TERM_TERMINAL_ID

PM_ENERGY_SOURCES / ENERGY_SOURCE_ID
- START_DATE
- CREATED_DATE
- END_DATE
- LAST_UPDATED_DATE
- TERM_TERMINAL_ID

TAP_CHANGER (START_DATE, TAP_CHANGER_ID)
- CREATED_DATE
- END_DATE
- LAST_UPDATED_DATE
- NUM_DLTC_TAP_STEPS
- TAP_RANGE_HIGH_PERC_ONL
- TAP_RANGE_LOW_PERC_ONL
- TAP_STEP_PERC_ON_LOAD
- TAP_STEP_PERC_ONL
- TERM_TERMINAL_ID

M_SWITCH_STATES
- START_DATE
- SW_START_DATE
- SW_SWITCH_ID
- CREATED_DATE
- IMS_NORMAL_STATE
- DYNAMC_STATE
- END_DATE
- ST_UPDATED_DATE
- MANUAL_DRESSED
- PLANNED_FLAG

PM_PORTION_SECTIONS
- PORTION_SECTION_ID
- START_DATE
- ACLINE_AC_LINE_SEGMENT_ID
- ACLINE_COND_START_DATE
- BACKFILL_BEDDING_TYPE
- CONDUCTOR_CODE
- END_DATE
- CREATED_DATE
- LAST_UPDATED_DATE
- LENGTH_QUALIFIER
- OHEW_CODED
- OPERATING_TEMPERATURE
- SECTION_GMD
- SECTION_LAY
- SECTION_LENGTH
- SECTION_NAME
- SOIL_TYPE
- SPACING_QUALIFIER
- THERMAL_RESISTIVITY

PM_REMOTE_POINTS

PM_UGOHS
- CONN_START_DATE
- UGOH_ID
- CREATED_DATE
- END_DATE
- FUZZY
- LAST_UPDATED_DATE

PM_JUNCTIONS
- CONN_START_DATE
- JUNCTION_ID
- CREATED_DATE
- END_DATE
- FUZZY
- LAST_UPDATED_DATE

PM_MEASUREMENTS
- MEASUREMENT_ID
- START_DATE
- CREATED_DATE

PM_TAP_CHANGERS

PM_MEAS_POINT_TYPES
- MTYPE_MEAS_TYPE_ID
- RPT_REMOTE_PT_ID
- RPT_START_DATE
- CREATED_DATE
- LAST_UPDATED_DATE

ETL_ERRORS
- ERROR_ID
- AREA_NUMBER
- BATCH_ID
- CREATED_DATE
- EMAIL_ERROR
- ERROR_DETAILS
- ERROR_PHASE
- ERROR_PROCESSED
- ERROR_TYPE
- ID_TYPE
- NODE_ID
- NODE_TYPE
- VCONFIG_ERROR_CODE

VALIDATION_CONFIGURATION
- CODE
- ACTIVE
- CREATED_DATE
- EMAIL_TO_GIS
- EMAIL_TO_PM
- EMAIL_TO_RIC
- ERROR_MESSAGE
- LAST_UPDATED_DATE
- PHASE
- RULE_SQL
- RULE_TYPE

ST_FDR_NODE_TYPES
- NODE_TYPE
- DESCRIPTION
- FULL_DESCRIPTION
- REQUIRE_VALIDATION

ST_FDR_NODE_COMB
- CHAR_ID
- CHECK_SUFFIX_NUM
- FNT_PREFIX_CODE
- SUFFIX