DAMG 6210 - DATA MANAGEMENT AND DATABASE DESIGN

P3 – Final Entity-Relationship Diagram

Power & Utilities Distribution Management System

Supply Chain Management system for an electric generation and distribution company

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List of changes made to Initial ERD

⇒ Changed names of ASSET entities to EQUIPMENT. Viz-a-viz EQUIPMENT_LIST, EQUIPMENT_REPAIRS, EQUIPMENT_INSTALLATION and EQUIPMENT_LOCATION.
⇒ Consequently, renamed previously EQUIPMENT_INSTALLATION entity as ACCOUNT_EQUIPMENT
⇒ Clarified calculated attributes by enclosing them in square braces. Specifically, Age in CUSTOMER entity, Outage_TTR in OUTAGES entity, YearsOfExperience in CREW entity, event_duration in WEATHER_EVENTS.
⇒ Added attribute of Repair_DateTime in EQUIPMENT_REPAIRS associative entity.
⇒ Clarified associative entities by showing them as boxes with rounded corners. Specifically, CREW_ASSIGNMENTS, ACCOUNT_EQUIPMENT and EQUIPMENT_REPAIRS.
⇒ Removed Payment_due_date from PAYMENT entity.

Final ERD