Healthcare RCM - Use Case Diagram

Azure Data Engineering Platform - Actor and System Interactions

Healthcare RCM Data Pipeline System

Data Engineer

Business Analyst

Data Scientist

BI Developer

Ingest EMR Data (Azure SQL DB)

Ingest Claims Data (Flat Files)

Integrate API Data (NPI, ICD, CPT)

Process Bronze Layer (Parquet Format)

Transform to Silver (Delta Tables)

Implement SCD Type 2 (History Tracking)

Perform Quality Checks (Quarantine)

Build Gold Layer (Star Schema)

Create Fact Tables (Aggregations)

Generate KPI Reports (AR > 90, Days in AR)

Monitor Pipeline (Audit Logs)

Manage Security (Key Vault)

Legend

— Association

--- Extends

···· Includes

Data Ingestion

Data Processing

Quality Control

Data Consumption