Operator Case Study Problem

RCM Data Analyst Challenge: Closed Encounters Analysis

Background:

> Ops Case Study Dataset - Sample DB Data.csv

> Ops Case Study Dataset - Sample EHR Data.csv

You have been provided with two datasets (linked above) in CSV format:

1. **Closed Encounters from the Client's EHR**: A list of encounters that have been closed in the client's electronic health record (EHR).

2. **Imported Closed Encounters**: A list of closed encounters that have been successfully imported into Normandy.

Each dataset contains information about Patient Name, Date of Service, and Rendering Provider, which together form a unique id for an encounter, alongside procedure-level details.

Some encounters in the client's EHR may not be present in our database, and your task is to identify these missing encounters and come to a conclusion as to why the encounters weren't imported.

Instructions:

1. **Task 1: Identifying Missing Encounters**

- Compare the two datasets and identify which encounters from the **Client EHR Closed Encounters** file are not found in the **Imported Closed Encounters** file.

- Provide a list of these missing encounters in the form of the unique ID mentioned above (Patient Name, Date of Service, and Rendering Provider)

2. **Task 2: Investigating the Cause**

- Analyze the missing encounters and identify any patterns or reasons why they might not have been imported into our database.

- Summarize your findings and explain why certain encounters were not imported.

Hints:

- Identify trends within the imported encounters vs the encounters that weren't imported

- You can use any tools you're comfortable with (e.g., Excel, SQL, Python) to analyze the data and answer these questions.

Deliverables:

- A list of missing encounters and their associated details.

- Some analysis into the associated factors with these missing encounters, with the goal of identifying potential reasons for why these encounters weren't imported into our database.