



Sardar Patel Institute of Technology, Mumbai

Department of Computer Science Engineering

B.E. Sem-VII- PE-IV (2024-2025)

IT 24 - AI in Healthcare

Experiment 7: Healthcare data analysis using Tableau

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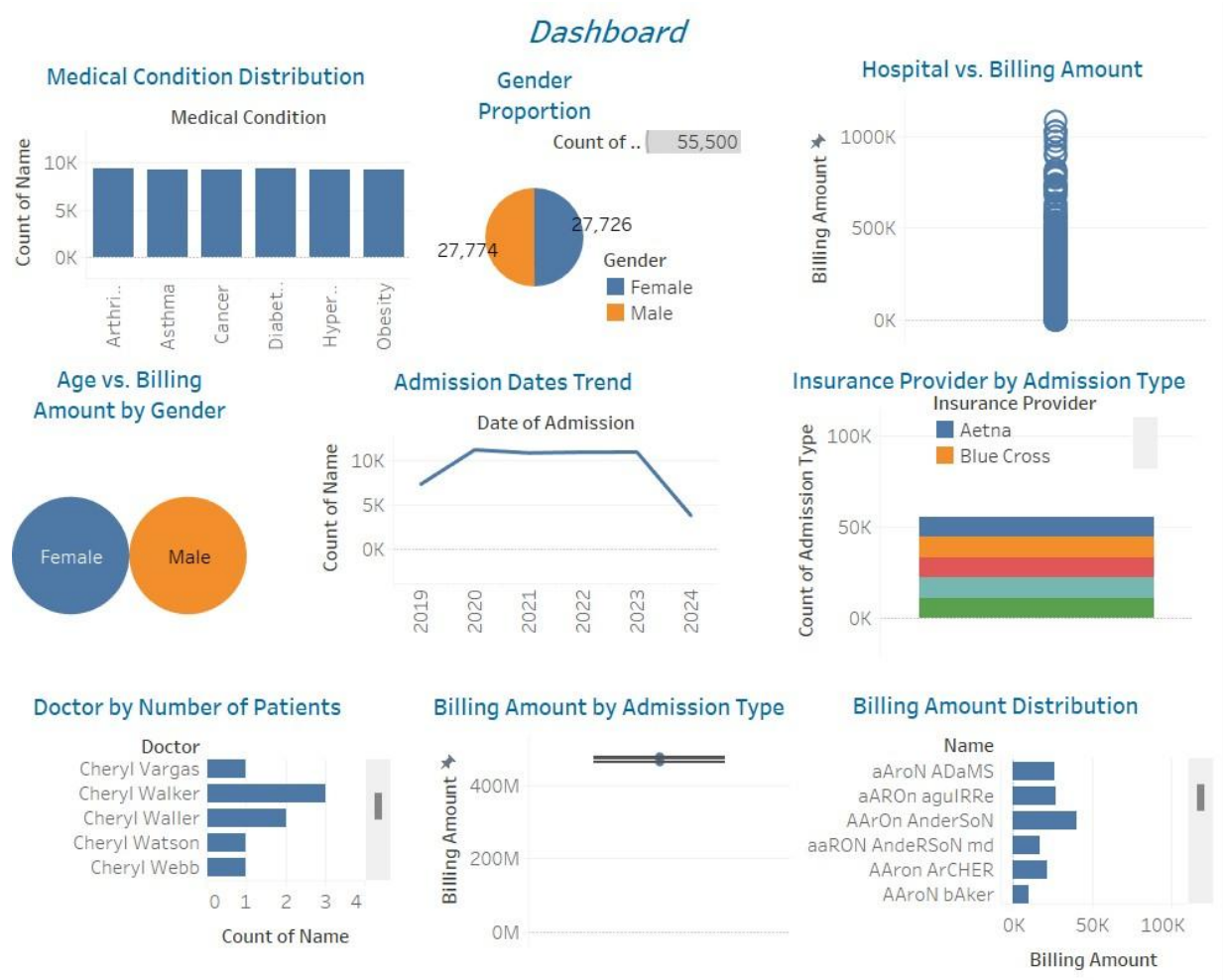
Date: 28/10/2024

Objective: To analyze the distribution of treatment outcomes across different Treatment types, cost analysis for the treatment and create a dashboard.

Steps:

- 1. Create a New Worksheet**
- 2. Drag Fields to the View**
- 3. Visualize using various graphical representations.**
 - a. How many patients have each outcome (e.g., Recovered, Not Recovered, Deceased) for different types of treatments (e.g., Surgery, Medication)
 - b. cost analysis for hospital stay.
- 4. Creating a Dashboard**

Output:



CONCLUSION:

- The facility serves a perfectly balanced patient demographic with approximately 27,774 patients each for both males and females (total 55,500 patients), suggesting equitable healthcare access across genders.
- There are six major medical conditions (Arthritis, Asthma, Cancer, Diabetes, Hypertension, and Obesity) with remarkably similar prevalence rates of around 8-9K cases each, indicating the facility needs to maintain equal resources and expertise across these conditions.
- The admission trend shows a distinct peak during 2021-2022 followed by a sharp decline towards 2024, which could be correlated with COVID-19 impact or changes in healthcare delivery models.

- The facility's billing amounts show significant variation, ranging from 0K to approximately 100K per patient, with multiple insurance providers (including Aetna and Blue Cross) handling the coverage.
- The doctor-patient distribution shows varying patient loads among physicians (all named Cheryl), with some handling significantly more patients than others, suggesting potential opportunities for workload balancing.