#### \*\*1. Patient Demographics \*\*

- \*\*Overview\*\*: This tab focuses on understanding the characteristics of patients admitted to the hospital.

- \*\*Key Metrics\*\*:

- \*\*Total Patients\*\*: Displays the total number of patients for the selected year (e.g., 2,509 in 2020).

- \*\*Doctors\*\*: Shows the total number of doctors employed (e.g., 2,405 in 2020).

- \*\*Rooms\*\*: Indicates the number of rooms available or utilized (e.g., 399 in 2020).

- \*\*Average LOS (Length of Stay)\*\*: Provides the average duration patients stay in the hospital (e.g., 15.82 days in 2020).

- \*\*Patient Age\*\*: Highlights the average age of patients (e.g., 51.96 years in 2020).

- \*\*Visualizations\*\*:

- \*\*Age Group Breakdown\*\*: A bar chart showing the distribution of patients by age group (e.g., 56+ years old, 36–55, 19–35, 0–18).

- \*\*Gender Distribution\*\*: A stacked bar chart comparing the number of male and female patients across different age groups.

- \*\*Medical Condition Insights\*\*:

- A section dedicated to specific medical conditions (e.g., Hypertension) provides details such as condition descriptions, normal vs. abnormal results, and inclusive results.

- A heart icon visually represents the focus on cardiovascular health.

- \*\*Hospital-Specific Data\*\*:

- A bar chart shows the total patient count by medical condition across various hospitals (e.g., Cedars-Sinai Medical Center, Houston Methodist Hospital, etc.).

---

#### \*\*2. Key Trends \*\*

- \*\*Overview\*\*: This tab highlights critical operational metrics and trends over time.

- \*\*Key Metrics\*\*:

- \*\*Total Patients\*\*: Displays the total number of patients for the selected year (e.g., 977 in 2022).

- \*\*Rooms\*\*: Shows the number of rooms available or utilized (e.g., 362 in 2022).

- \*\*Billing\*\*: Provides the total billing amount (e.g., $25.1M in 2022).

- \*\*Average LOS\*\*: Indicates the average length of stay (e.g., 15.37 days in 2022).

- \*\*Patient Age\*\*: Highlights the average age of patients (e.g., 52.69 years in 2022).

- \*\*Visualizations\*\*:

- \*\*Day Type Analysis\*\*: A pie chart breaks down patient admissions by day type (weekday vs. weekend).

- \*\*Treatment Duration Status\*\*: Another pie chart categorizes patients based on their treatment duration (long, medium, short).

- \*\*Patient Admission Breakdown\*\*: A table shows the monthly and weekly admission patterns, helping identify peak times for patient influx.

- \*\*Admission Type Analysis\*\*:

- A line chart tracks average billing by month, categorized by admission type (elective, emergency, urgent), providing insights into revenue streams.

---

#### \*\*3. Billing \*\*

- \*\*Overview\*\*: This tab focuses on financial performance and revenue management.

- \*\*Key Metrics\*\*:

- \*\*Total Patients\*\*: Displays the total number of patients for the selected year (e.g., 790 in 2021).

- \*\*Rooms\*\*: Shows the number of rooms available or utilized (e.g., 341 in 2021).

- \*\*Billing\*\*: Provides the total billing amount (e.g., $20.2M in 2021).

- \*\*Average LOS\*\*: Indicates the average length of stay (e.g., 15.34 days in 2021).

- \*\*Patient Age\*\*: Highlights the average age of patients (e.g., 52.35 years in 2021).

- \*\*Visualizations\*\*:

- \*\*Total Billing by Treatment Duration and Admission Type\*\*: A stacked bar chart shows how billing varies based on treatment duration (long, medium, short) and admission type (elective, emergency, urgent).

- \*\*Revenue Summary\*\*: A horizontal bar chart summarizes revenue by admission type, hospital, age group, and gender.

- \*\*Hospital-Specific Financials\*\*:

- A waterfall chart displays total billing and patient counts by hospital, offering a comparative view of financial performance across institutions.

---