Designing and Building an Interactive Dashboard - Submission
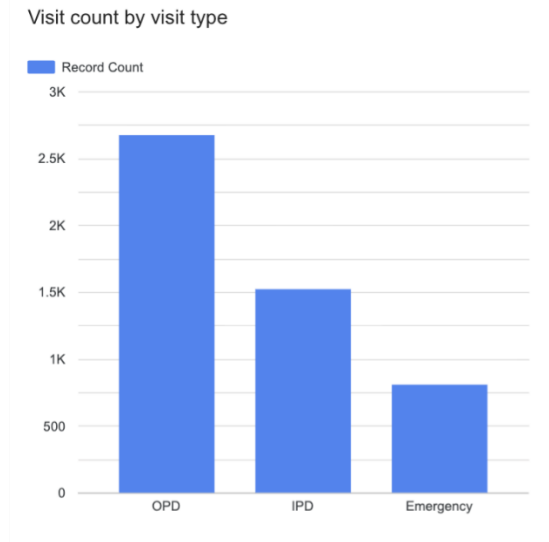
This template helps you capture and share screenshots of your code and results for each task.
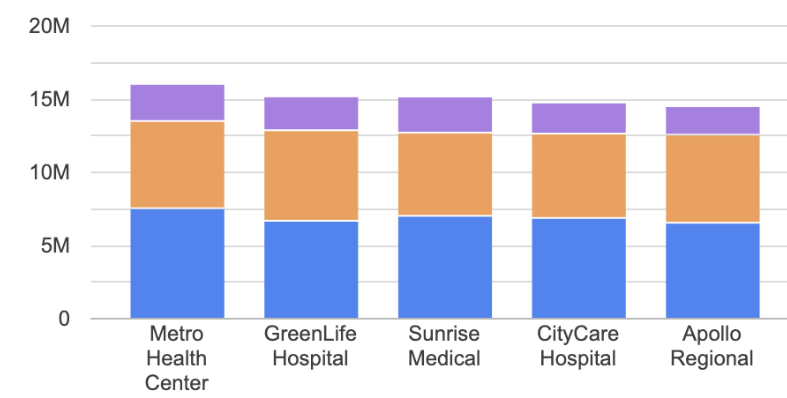
Instructions

- Insert answers to relevant questions or screenshots showing the relevant KPI scorecard, charts, or dashboard, as mentioned in the tasks of the project.
- Ensure all screenshots are readable.
- You can share the screenshots in any of the following formats: .png, .jpg, .jpeg, .jfif, .webp, .bmp, .tiff, .tif
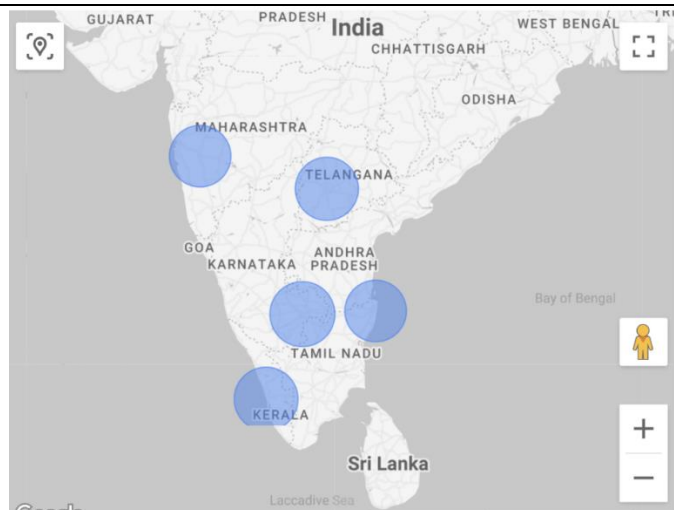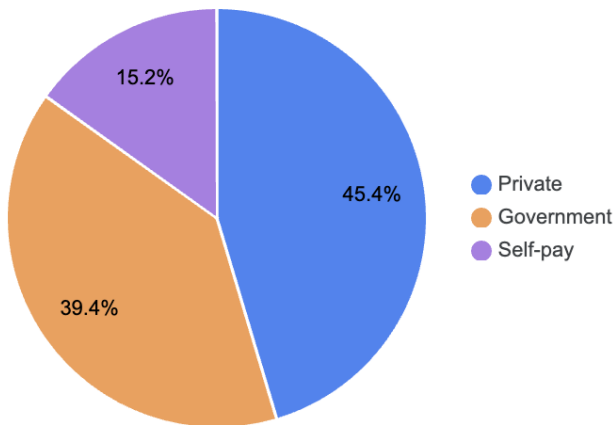
Part 1, Healthcare analytics and visualization

Task	Activity name	Screenshot of both the code and output
1	**Key Performance Indicators (KPIs)** Add the following KPI scores: • Total number of patients served • Total revenue generated • Average patient satisfaction score • 30-day hospital readmission rate	*<Paste the screenshot depicting all four KPI scores>* Total Patients — Total Patients — 5,000 Total Bill Amount — Total Bill Amount — 75,109,920 Average Satisfaction Score — avg_satisfaction_score — 3.59 Readmission Rate — Readmission_Rate — 17.18%

2	**Analyze visit types** Create a bar chart to display visit counts by visit type.	*<Paste the screenshot of the chart>* Visit count by visit type
3	**Financial performance by hospital** Create a bar chart that displays total revenue (total bill amount) by hospital.	*<Paste the screenshot of the chart>*

		Revenue contribution by hospital
4	**Total hospital revenue with insurance type breakup** Create a stacked bar chart depicting the total bill amount by hospital name and insurance type.	*<Paste the screenshot of the chart>*

		Total bill amount by Hospital name and Insurance type
5.	**Revenue impact of visit type by hospital** Create a stacked bar chart that highlights the revenue generated by each hospital, segmented by visit type.	*<Paste the screenshot of the chart>*

Total bill amount by Hospital Name and Visit Type

| 6. | **Geospatial healthcare access analysis** Create a map using latitude and longitude to represent hospital locations and encode patient volume using marker size or intensity. | *<Paste the screenshot of the chart>* |

7.	**Insurance and payment analysis** Create a pie chart that displays cost distribution across insurance types.	*<Paste the screenshot of the chart>*

Insurance type by Total bill amount

- Private — 45.4%
- Government — 39.4%
- Self-pay — 15.2%

8.	**Readmission risk insights** Create a line chart that highlights readmission patterns across key variables, including visit type, length of stay, chronic conditions, and patient satisfaction.	*<Paste the screenshot of the chart>*

Part 2: Executive healthcare dashboard design

1	Using the provided Regional Healthcare dataset and the KPI scorecards and charts created in Part 1, create a simple executive summary dashboard considering the design requirements mentioned in Part 2.	*<Paste the screenshot of the dashboard>*
2	Write 1–2 sentences explaining how the dashboard layout supports executive decision-making.	*<Write the answer here>*