

Designing and Building an Interactive Dashboard - Submission

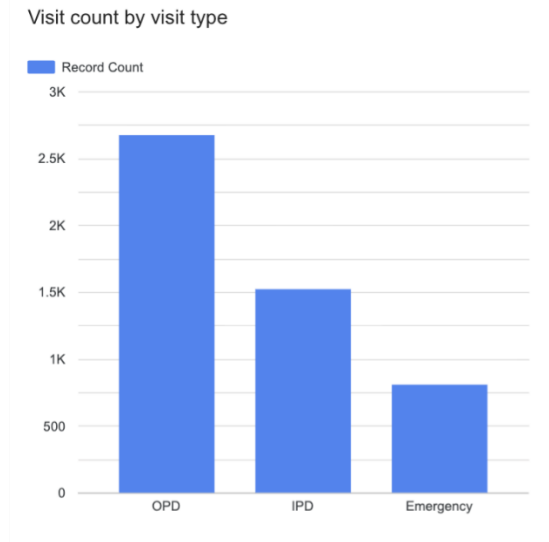
This template helps you capture and share screenshots of your code and results for each task.

Instructions

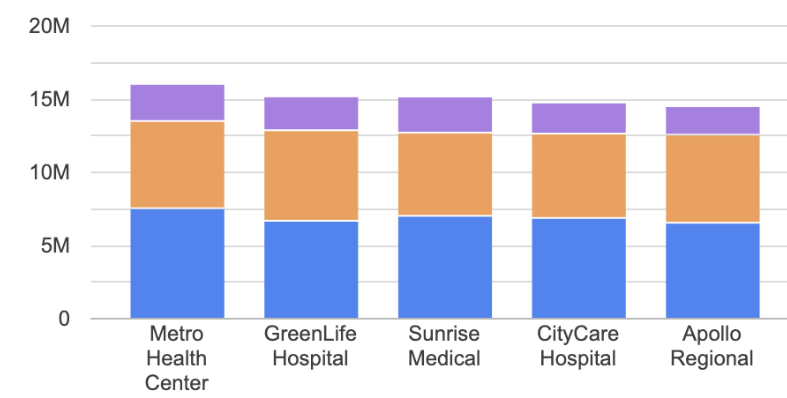
- Insert answers to relevant questions or screenshots showing the relevant KPI scorecard, charts, or dashboard, as mentioned in the tasks of the project.
- Ensure all screenshots are readable.
- You can share the screenshots in any of the following formats: .png, .jpg, .jpeg, .jfif, .webp, .bmp, .tiff,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

Part 1, Healthcare analytics and visualization

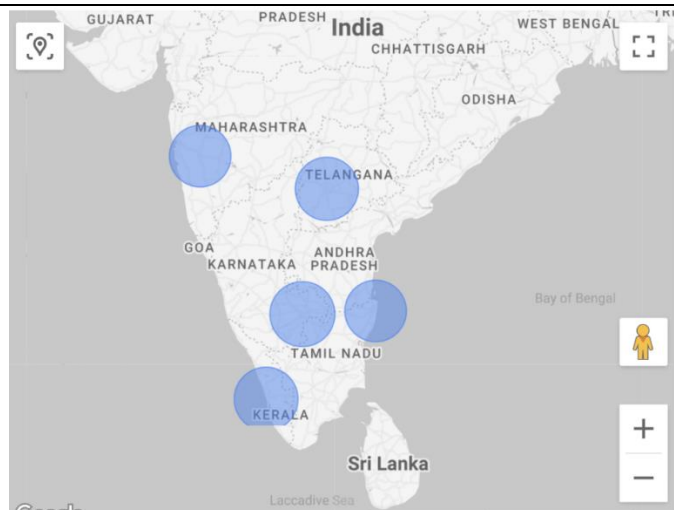
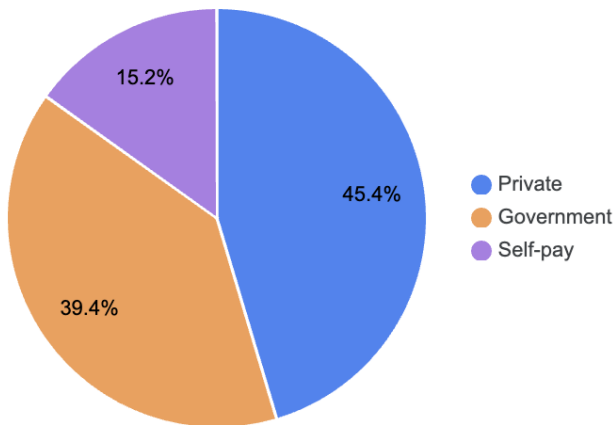
Task	Activity name	Screenshot of both the code and output												
1	Key Performance Indicators (KPIs) Add the following KPI scores: <ul style="list-style-type: none">• Total number of patients served• Total revenue generated• Average patient satisfaction score• 30-day hospital readmission rate	<Paste the screenshot depicting all four KPI scores> <table><tr><td>Total Patients</td><td>Total Bill Amount</td><td>Average Satisfaction Score</td><td>Readmission Rate</td></tr><tr><td>Total Patients</td><td>Total Bill Amount</td><td>avg_satisfaction_score</td><td>Readmission_Rate</td></tr><tr><td>5,000</td><td>75,109,920</td><td>3.59</td><td>17.18%</td></tr></table>	Total Patients	Total Bill Amount	Average Satisfaction Score	Readmission Rate	Total Patients	Total Bill Amount	avg_satisfaction_score	Readmission_Rate	5,000	75,109,920	3.59	17.18%
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2	Analyze visit types Create a bar chart to display visit counts by visit type.	<p><Paste the screenshot of the chart></p>  <p>The bar chart displays the record count for three visit types: OPD, IPD, and Emergency. The y-axis represents the record count, ranging from 0 to 3K with increments of 500. The x-axis lists the visit types. The OPD bar is the tallest, reaching approximately 2.7K. The IPD bar is the second tallest, reaching approximately 1.5K. The Emergency bar is the shortest, reaching approximately 0.8K.</p> <table><tr><th>Visit Type</th><th>Record Count</th></tr><tr><td>OPD</td><td>2700</td></tr><tr><td>IPD</td><td>1500</td></tr><tr><td>Emergency</td><td>800</td></tr></table>	Visit Type	Record Count	OPD	2700	IPD	1500	Emergency	800
Visit Type	Record Count									
OPD	2700									
IPD	1500									
Emergency	800									
3	Financial performance by hospital Create a bar chart that displays total revenue (total bill amount) by hospital.	<p><Paste the screenshot of the chart></p>								

		<div>Revenue contribution by hospital</div> <div><div>total_bill_amount</div><table><thead><tr><th>Hospital</th><th>total_bill_amount</th></tr></thead><tbody><tr><td>Metro Health Center</td><td>16M</td></tr><tr><td>GreenLife Hospital</td><td>15M</td></tr><tr><td>Sunrise Medical</td><td>15M</td></tr><tr><td>CityCare Hospital</td><td>14.5M</td></tr><tr><td>Apollo Regional</td><td>14.5M</td></tr></tbody></table></div>	Hospital	total_bill_amount	Metro Health Center	16M	GreenLife Hospital	15M	Sunrise Medical	15M	CityCare Hospital	14.5M	Apollo Regional	14.5M
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4	<div>Total hospital revenue with insurance type breakup</div> <div>Create a stacked bar chart depicting the total bill amount by hospital name and insurance type.</div>	<Paste the screenshot of the chart>												

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5.	<p>Revenue impact of visit type by hospital</p> <p>Create a stacked bar chart that highlights the revenue generated by each hospital, segmented by visit type.</p>	<p><Paste the screenshot of the chart></p>																								

		<div>Total bill amount by Hospital Name and Visit Type</div> <div><div>IPD</div><div>OPD</div><div>Emergency</div></div> <div><div>20M</div><div>15M</div><div>10M</div><div>5M</div><div>0</div></div> <div><div>Metro Health Center</div><div>GreenLife Hospital</div><div>Sunrise Medical</div><div>CityCare Hospital</div><div>Apollo Regional</div></div> <table><thead><tr><th>Hospital Name</th><th>IPD</th><th>OPD</th><th>Emergency</th></tr></thead><tbody><tr><td>Metro Health Center</td><td>8.0</td><td>4.5</td><td>3.5</td></tr><tr><td>GreenLife Hospital</td><td>7.5</td><td>4.5</td><td>3.0</td></tr><tr><td>Sunrise Medical</td><td>7.5</td><td>4.5</td><td>3.0</td></tr><tr><td>CityCare Hospital</td><td>7.0</td><td>4.5</td><td>3.0</td></tr><tr><td>Apollo Regional</td><td>7.0</td><td>4.5</td><td>3.0</td></tr></tbody></table>	Hospital Name	IPD	OPD	Emergency	Metro Health Center	8.0	4.5	3.5	GreenLife Hospital	7.5	4.5	3.0	Sunrise Medical	7.5	4.5	3.0	CityCare Hospital	7.0	4.5	3.0	Apollo Regional	7.0	4.5	3.0
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6.	<div>Geospatial healthcare access analysis</div> <div>Create a map using latitude and longitude to represent hospital locations and encode patient volume using marker size or intensity.</div>	<Paste the screenshot of the chart>																								

										
7.	Insurance and payment analysis Create a pie chart that displays cost distribution across insurance types.	<p><Paste the screenshot of the chart></p> <p>Insurance type by Total bill amount</p>  <table><tr><th>Insurance Type</th><th>Percentage</th></tr><tr><td>Private</td><td>45.4%</td></tr><tr><td>Government</td><td>39.4%</td></tr><tr><td>Self-pay</td><td>15.2%</td></tr></table>	Insurance Type	Percentage	Private	45.4%	Government	39.4%	Self-pay	15.2%
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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>
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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>