Dashboard Design: Healthcare Management

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Introduction :

The Healthcare Management System (HMS) streamlines hospital operations by managing patient data, tracking bed usage, average treatment cost and monitoring key metrics like bed occupancy and department wise revenue. It also supports flexible budget allocation and revenue adjustments, helping administrators make informed decisions for better planning for marketing and budgeting strategies in upcoming year

Mission :

The goal of this project is to create a dashboard that helps healthcare teams monitor patient visits, revenue by age group, length of stay, and bed occupancy. This will help hospitals optimize budgets and develop marketing strategies by analyzing last year's departmental revenue If a department is underperforming, adjustments can be made to improve its financial performance.
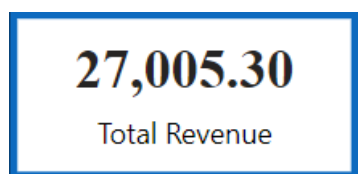
KPIs :

1. Average Patient Wait Time
2. Bed Occupancy Rate
3. Average Length Of Stay
4. Revenue By Age Group
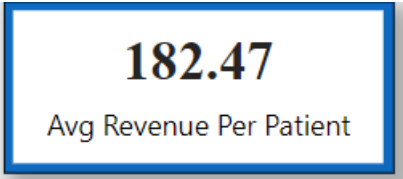5. Monthly Revenue Generation

Results:
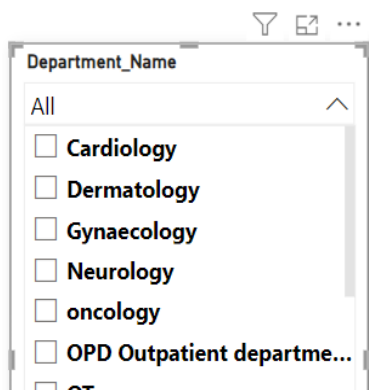
All data is organized by department, allowing you to select a specific one to view details such as average revenue per patient and bed occupancy in the results


This card displays the total treatment cost, and it can be sorted by month to show the total revenue generated during a specific month

182.47

Avg Revenue Per Patient

The card displays the average revenue per patient, which helps determine the average treatment cost for each individual this data can also be filtered by different months

Month

January	July
February	August
March	September
April	October
May	November
June	December

The entire dashboard can be filtered using the monthly filter, providing data on a monthly basis for instance, it shows the total number of patients per month, total revenue or treatment costs by month, and monthly revenue broken down by department.

Total Revenue by Age Group

Age Bucket	Total Revenue
41-60y	11.5K
6-20Y	6.9K
60+Y	3.7K
Below 6Y	3.6K
21-40Y	1.2K
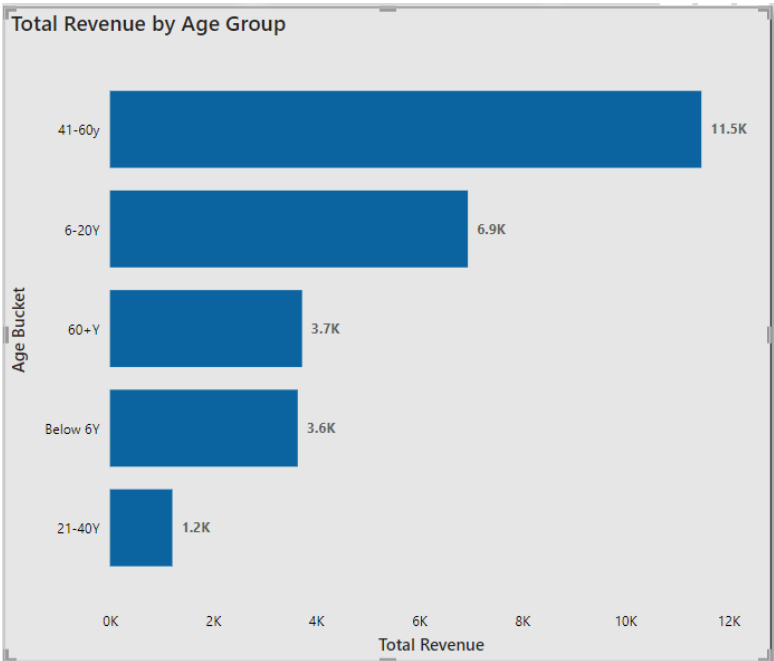
This clustered bar chart displays age groups on the Y-axis and total revenue on the X-axis, illustrating the total revenue generated in the last year by each age group, For the upcoming year management will be well-prepared with insights into which age groups are likely to visit us in the coming days based on this information, organization can develop their administrative and marketing strategies.
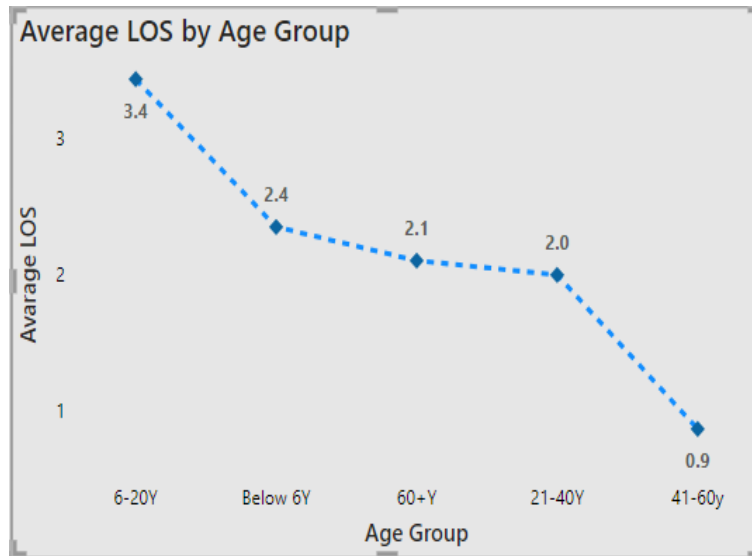
The average length of stay is categorized by age group, indicating the number of days patients are residing in the hospital. This average provides the organization with insights into how long patients stay for treatment by department. If they observe that revenue for a particular month is high, they can consider increasing the bed capacity in that department to further boost profits

Conclusion :

In summary, Healthcare management dashboard is important for improving insights into the hospital's current bed availability, average patient length of stay, and revenue across different age groups. By utilizing this dashboard, hospital management can make data-driven decisions about patient intake and explore revenue growth strategies by focusing on specific age demographics. This dashboard is particularly designed for private sector healthcare management organizations, enabling them to enhance revenue generation, optimize budgeting, and implement effective administrative strategies simply by inputting one year of historical data, leading to better overall management within the organization

Dashboard Screenshot: