

Excel Project on Hospital Emergency Room Interactive Dashboard

PURPOSE OF THE PROJECT: We need to create a Hospital Emergency Room Analysis Dashboard in Microsoft Excel to improve efficiency and provide useful insights. The dashboard will help the stakeholders monitor, analyse and make better decisions for managing patients and improving services.

KPI Requirements:

❖ Number of Patients

- ✓ Count the total number of patients visiting the Emergency Room each day.
- ✓ Show a daily trend with an area sparkline to spot patterns like busy days or seasonal trends.

❖ Average Wait Time

- ✓ Find average time patients wait to see a medical professional.
- ✓ Use an area sparkline to track daily changes and highlight days with longer wait times that might need improvement.

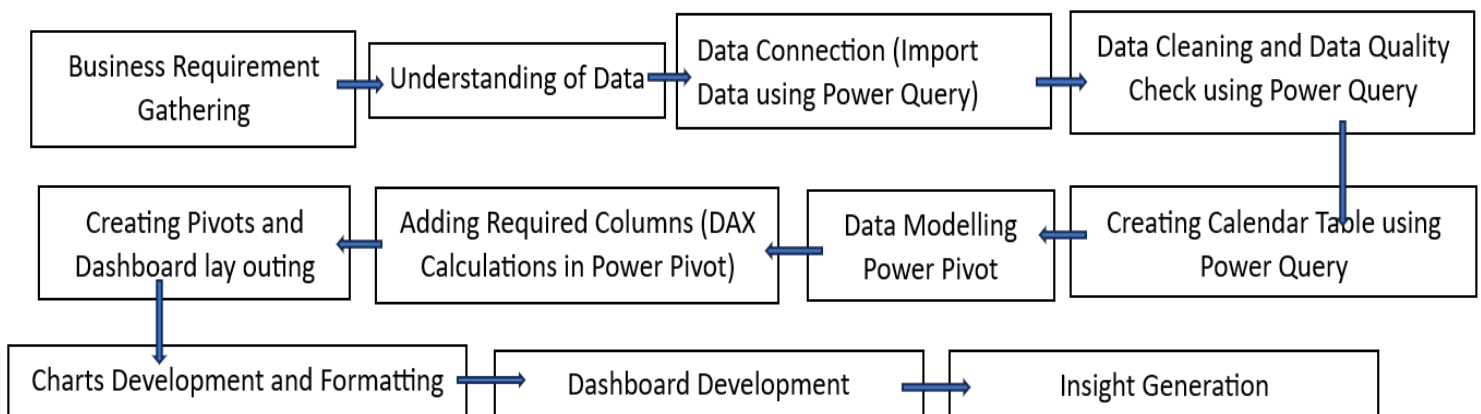
❖ Patient Satisfaction Score

- ✓ Check the average daily satisfaction score of patients to assess service quality.
- ✓ Use an area sparkline to show trends, spot drops in satisfaction and link them with challenges.

Charts to Create:

- **Patient Admission Status:** Show how many patients were admitted versus not admitted.
- **Patient Age Distribution:** Group patients by age.
- **Timelines:** Measure the percentage of patients seen within 30 minutes.
- **Gender Analysis:** Display the number of patients by gender.
- **Department Referrals:** Check which departments patients are referred to the most.

PROJECT STEPS



TOOLS USED:

- Power Query
- Power Pivot
- Pivot Table and Pivot Charts

FEATURES:

- Interactive Dashboard with slicers to navigate between different years and different months.
- Areal Pivot Chart used for day-wise analysis of the no. of patients, average wait time and patient satisfaction.
- Bar-Graph used to show the admission status of the patients, no. of patients by age, no. of patients by department referrals.
- Pie-Chart is used to check how many patients were attended on time, and gender-wise analysis of patients.

This project was made by Richa Anajwala with the help of the knowledge gained from courses on Pluralsight and was guided by Satish Dhawale sir through his YouTube video.

(https://youtu.be/503-_4XI_qA?si=_gxyZeN24w30vsi4)

