

HOSPITAL EMERGENCY ROOM DASHBOARD

An End-to-End Excel BI Project using Power Pivot and Visual Analytics

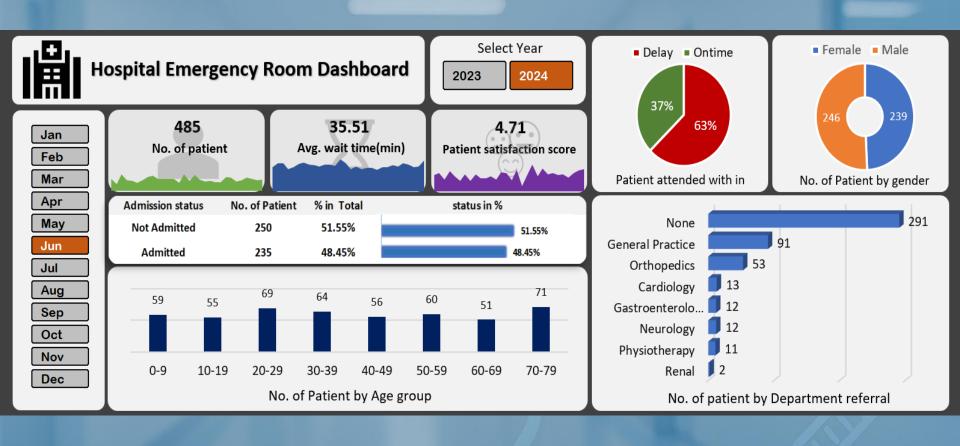
Project Objective

- Analyze emergency room operations to improve service efficiency.
- Create an interactive dashboard using Excel to help stakeholders monitor key metrics.
- ☐ Track KPIs like wait time, patient load, admission rate, and referrals.

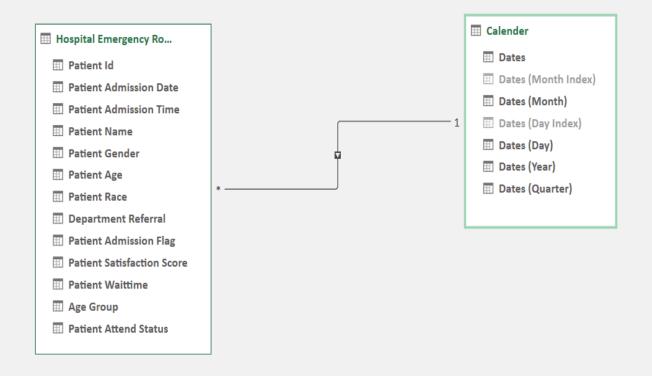
Technical Workflow

- ☐ Used Power Pivot for data modeling and linking tables.
- ☐ Created a dynamic calendar table using List.Dates() function.
- ☐ Built DAX-like formulas for Age Grouping and Wait Time Classification.
- ☐ Designed interactive slicers for year/month navigation.
- ☐ Structured sheets into Raw Data, Calculations, Visuals, Dashboard.

Dashboard

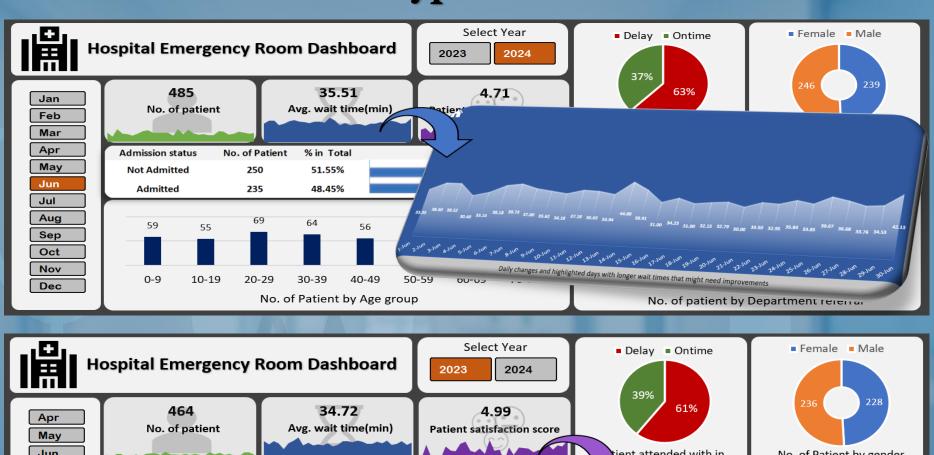


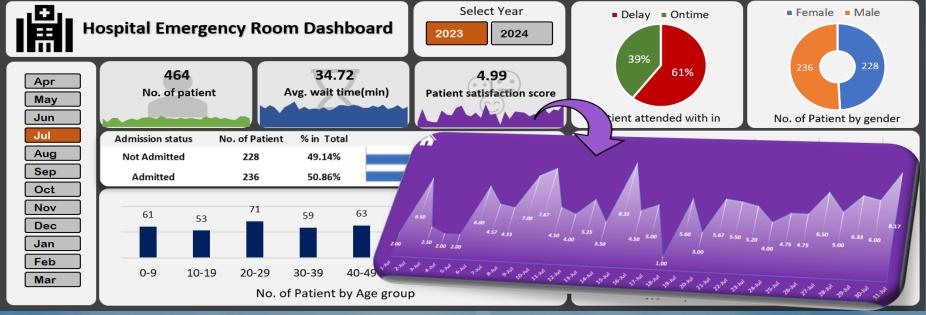
Data Model



One to many relationship between Calender and Hospital emergency room table

Hyperlink





Key Insights from Dashboard

- ✓ 32% of patients experienced delays > 30 minutes.
- ✓ General Practice & Orthopedics were top referral departments.
- ✓ Satisfaction scores dropped with higher wait times.
- ✓ Most patients were aged 5–14 and 30–44.
- ✓ Gender distribution skewed slightly toward females.

