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**Hospital Emergency Data Analysis and Dashboard Project**

**Steps to do :**

Requirement Gathering/ Business Requirements

Data Walkthrough

Data Connection

Data Cleaning / Quality Check

Data Modeling

Data Processing

DAX Calculations

Dashboard Lay outing

Charts Development and Formatting

Dashboard / Report Development

Insights Generation

**Key Performance Indicators to find :**

**Number of Patients:**

Measure the total number of patients visiting the ER daily.

Display a daily trend using an area sparkline to understand patterns over time, such as peak days or seasonal trends.

**Average Wait Time:**

Calculate the average time patients wait before being attended to by a medical professional.

Use an area sparkline to show daily fluctuations and identify days with higher wait times that may require operational adjustments.

**Patient Satisfaction Score:**

Analyze the average satisfaction score of patients on a daily basis to evaluate the quality of service provided.

Present a daily trend using an area sparkline to identify dips in satisfaction and correlate them with operational challenges or peak times.

**Number of Patients Referred:**

Count the number of patients referred to specific departments from the ER each day.

Use an area sparkline to track daily trends and identify departments with high referral rates, which may require additional resources.

**Dashboards to find :**

Monthly View

Consolidated View

Patient Details

**Dashboard 1: Monthly View**

**Objective: Monitor key metrics and trends monthly to identify patterns and areas for improvement.**

**Charts to Develop:**

Patient Admission Status: Track admitted vs. non-admitted patients.

Patient Age Distribution: Group patients by 10-year age intervals.

Department Referrals: Analyze referral trends across different departments.

Timeliness: Measure the percentage of patients seen within 30 minutes.

Gender Analysis: Visualize patient distribution by gender.

Racial Demographics: Analyze patient data by race.

Time Analysis: Assess patient volume by day and hour.

**Dashboard 2: Consolidated View**

**Objective: Provide a holistic summary of hospital performance for a selected date range.**

**Charts to Develop:**

Similar metrics as the Monthly View, but aggregated over a customizable date range for broader insights and trend analysis.

**Dashboard 3: Patient Details**

**Objective: Offer granular insights into patient-level data to enable detailed analysis and troubleshooting.**

**Charts to Develop: A grid displaying essential fields:**

Patient ID

Patient Full Name

Gender

Age

Admission Date

Patient Race

Wait Time

Department Referral

Admission Status