# Healthcare Analytics Project

The Kaggle dataset is a consolidated data set.

Step 1: Data cleaning and arrangement

Step 2: Creating calculated and conditional columns

Step 3: Creating the fact table and dimension tables.

Step 4: Creating the star schema in model view

Step 5: Calculating the various DAX measures

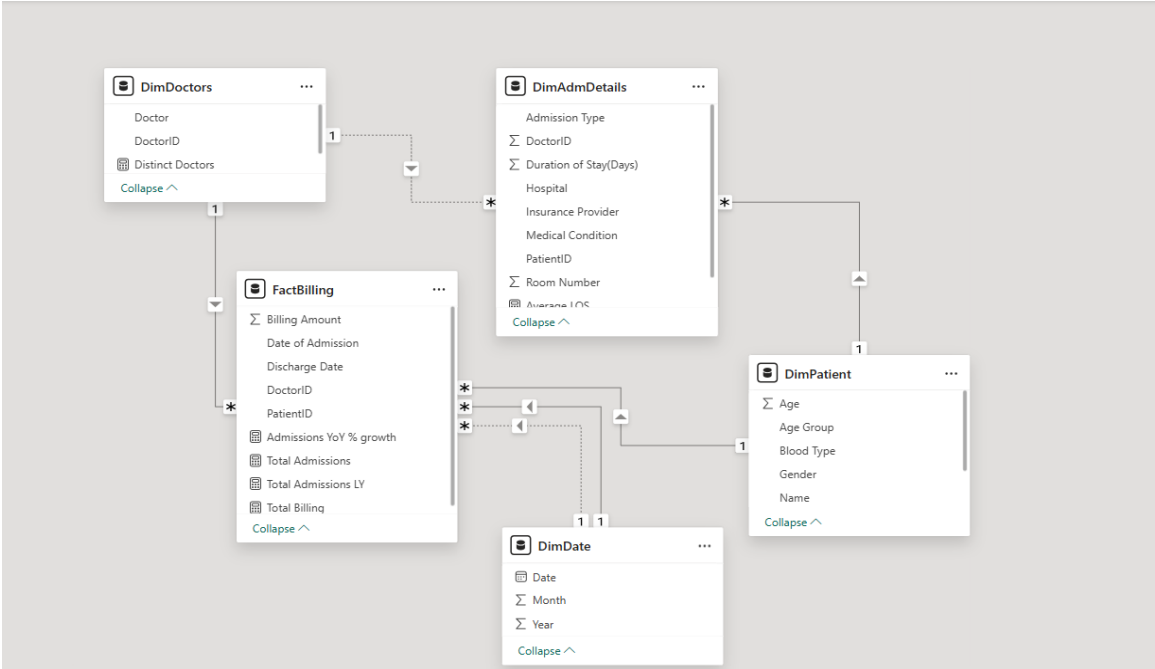Step 6: Report building and application of filters

Step 7: Modifying DAX measures using USERRELATIONSHIP to account for inactive relationships
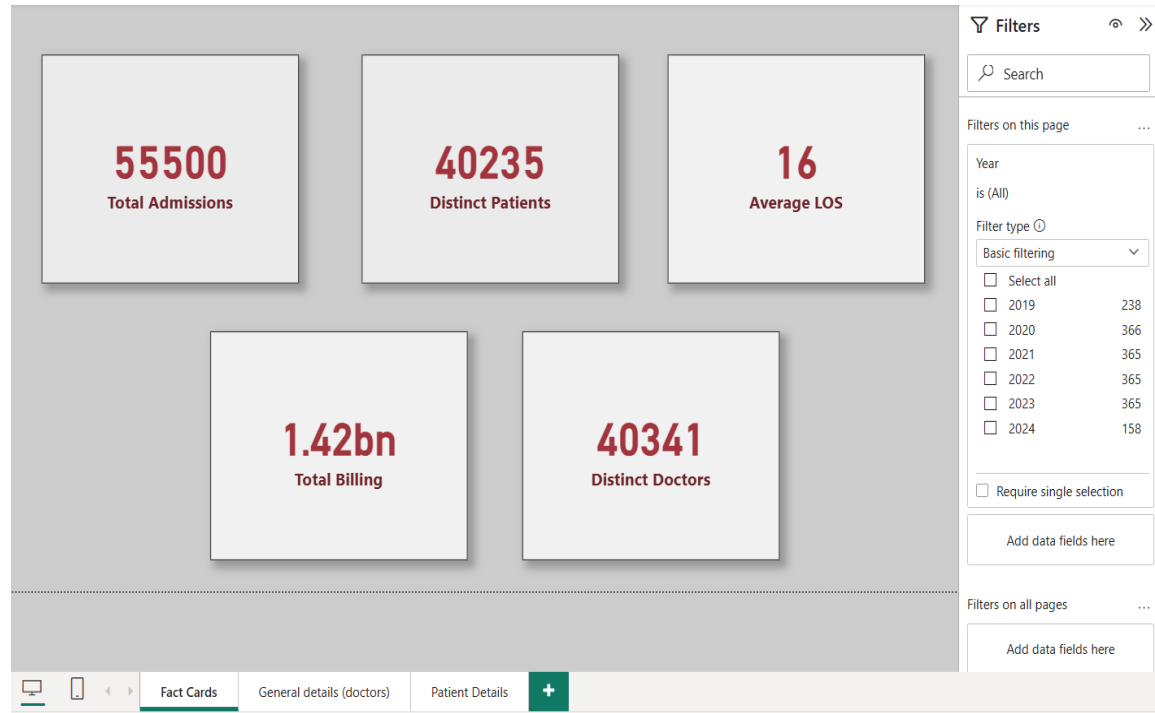
## 1. DAX measures

- Average LOS = AVERAGE(DimAdmDetails[Duration of Stay(Days)])

- Total Admissions_check = COUNTROWS(DimAdmDetails)

- Distinct Doctors = DISTINCTCOUNT(FactBilling[DoctorID])

- Hospital_Count_Per Doctor = CALCULATE(DISTINCTCOUNT(DimAdmDetails[Hospital]), USERELATIONSHIP(DimAdmDetails[DoctorID],DimDoctors[DoctorID]))

- Distinct Patients = DISTINCTCOUNT(FactBilling[PatientID])

- Total Admissions = COUNTROWS(FactBilling)

- Total Admissions LY = CALCULATE(Total Admissions],SAMEPERIODLASTYEAR(DimDate[Date]))

- Admissions YoY % growth = DIVIDE([Total Admissions]-[Total Admissions LY],[Total Admissions LY])

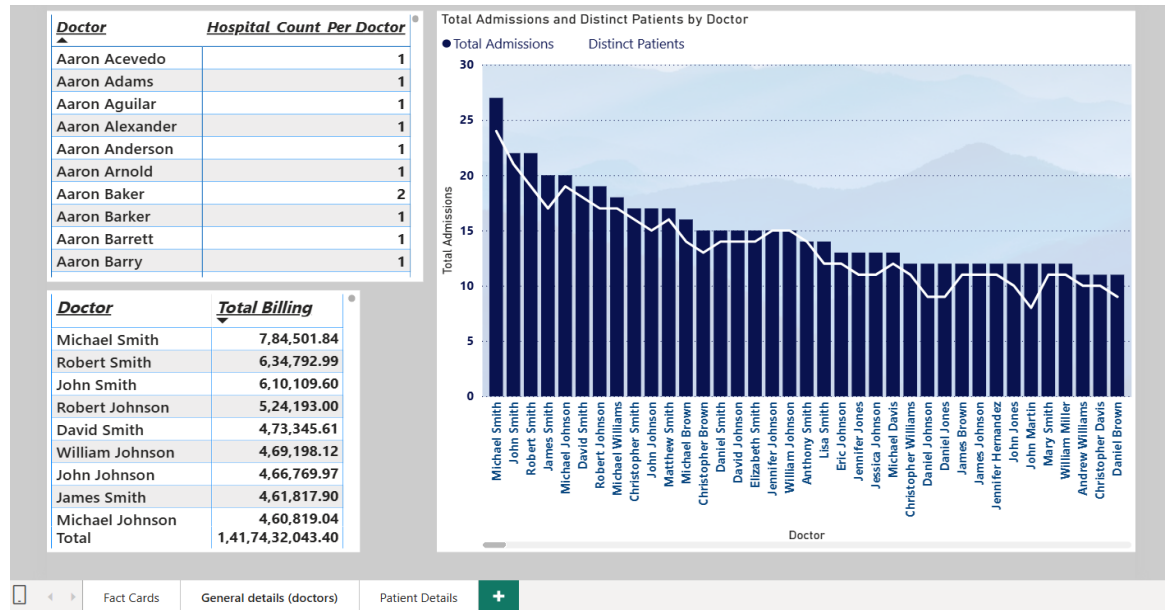- Total Billing = SUM(FactBilling[Billing Amount])

## 2. Report Screenshots

- **Model view**



- **Fact Cards**

- **Doctor details**



- **Patient and Insurance details**