# PATIENT CENTRIC HEALTHCARE DATABASE

#### **Description:**

This database provides a comprehensive overview of hospital management, including patient demographics, medical conditions, financial data, and operational metrics. It encompasses key details such as patient information, admission and discharge dates, room assignments, doctors, hospitals, insurance providers, and billing amounts. The dataset is designed to facilitate in-depth analysis of healthcare operations, patient trends, and financial performance, enabling insights into resource utilization and medical care distribution.

#### Data:

- 1. **PatientID**: Unique identifier for each patient.
- 2. **Name**: Name of the patient (randomly generated).
- 3. **Age**: Age of the patient.
- 4. **Gender**: Gender of the patient (Male/Female).
- 5. **BloodGroup**: Blood group of the patient (e.g., A+, O-, etc.).
- 6. **MedicalCondition**: The diagnosed condition (e.g., Arthritis, Diabetes, etc.).
- 7. **AdmissionDate**: The date the patient was admitted.
- 8. **Doctor**: The doctor assigned to the patient.
- 9. **Hospital**: The hospital where the patient is admitted.
- 10.**InsuranceProvider**: The insurance company covering the patient.
- 11. **BillingAmount**: Total bill amount for the patient.
- 12.**RoomNumber**: Room number where the patient is admitted.
- 13. **AdmissionType**: The type of admission (Elective/Emergency/Urgent).
- 14. **StayDuration**: Number of days the patient stayed in the hospital.
- 15. **TestResult**: Result of diagnostic tests (e.g., Normal, Abnormal, Inconclusive).

### AVERAGE BILLING AMOUNT

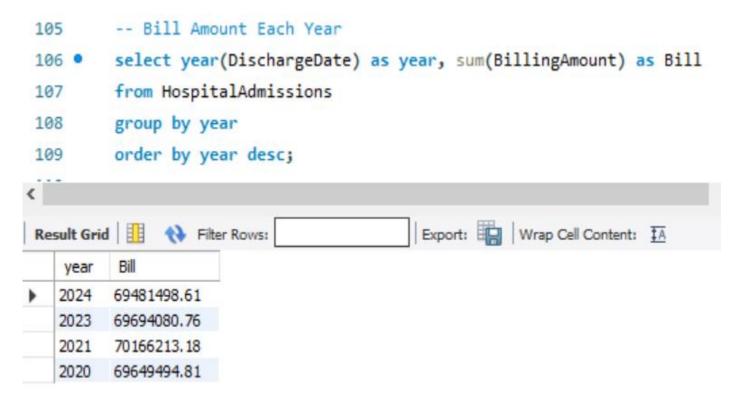
### AVERAGE AGE OF PATIENT



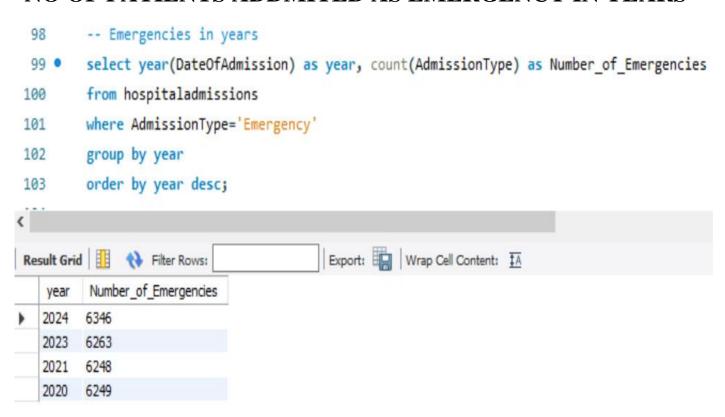
## AVERAGE STAY OF PATIENT

7.1922

# **BILL AMOUNT SPLIT BY YEAR**



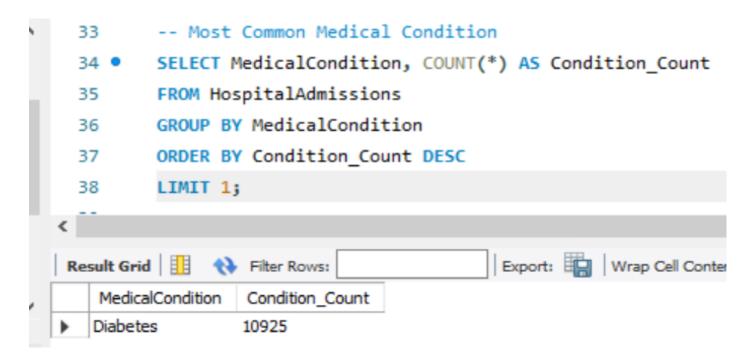
#### NO OF PATIENTS ADDMITED AS EMERGENCY IN YEARS



### PATIENT SPLIT BETWEEN GENDER

```
44
        -- Patients Split Between Male & Female
45 • select
46 ⊖
           case
47
                When Gender = 'Male' then 'Male'
                when Gender = 'Female' then 'Female'
48
49
                End as Gender,
                 count(gender) as Patient Split
50
                from hospitaladmissions
51
                group by Gender;
52
Result Grid
                                      Export: Wrap Cell Cont
            Filter Rows:
  Gender
        Patient Split
  Male
         28548
  Female
         21452
```

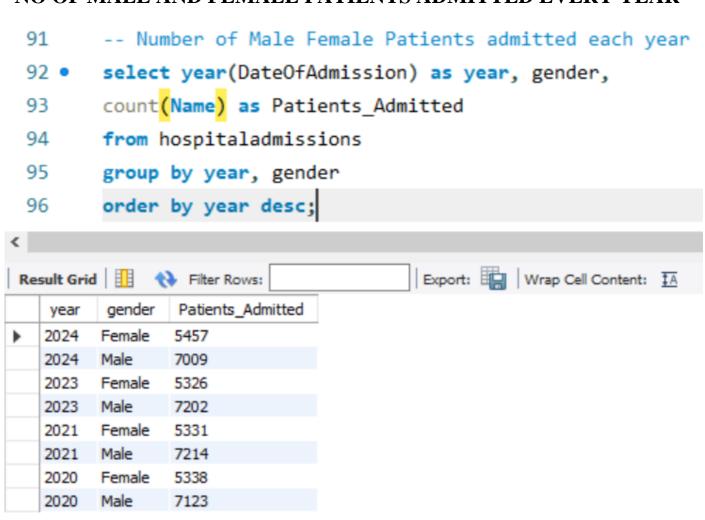
### MOST COMMON MEDICAL CONDITION



### NO OF PATIENTS ADMITTED BY YEAR

```
85
       -- Number of Patients by Year
86 • select year(DateOfAdmission) as year, count(name) as Patient admitted
87
       from hospitaladmissions
       group by year
88
       order by year desc;
89
                                   Export: Wrap Cell Content: IA
Patient admitted
  year
      12466
  2024
  2023 12528
  2021
      12545
      12461
  2020
```

#### NO OF MALE AND FEMALE PATIENTS ADMITTED EVERY YEAR



#### PATIENTS BY ADMISSION TYPE

60 -- Patients by admission type 61 • select admissiontype, count(admissiontype) as count from hospitaladmissions 62 group by admissiontype: 63 Export: Wrap Cell Content: IA Result Grid Filter Rows: admissiontype | count Urgent 22526 25106 Emergency Elective 2368

### NO OF PATIENTS BY BLOOD TYPE

A+

AB+

Α-

B-

AB-

14896

10142

4081

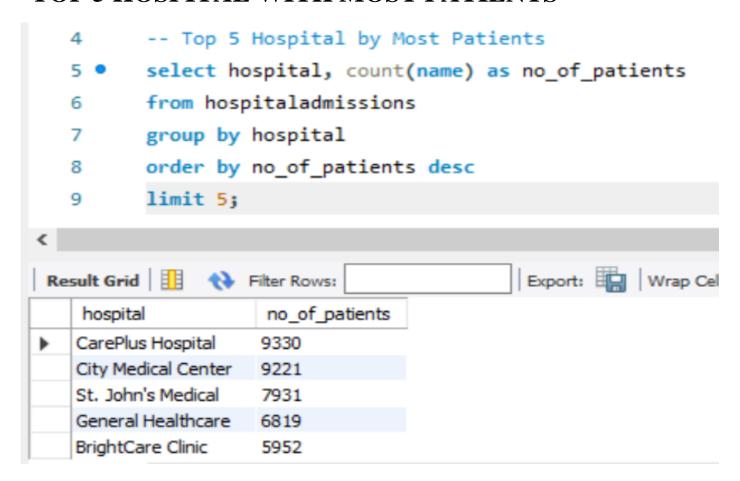
1226

193

### TOP INSURANCE PROVIDERS

```
65
         -- Split in Insurance
 66 •
         select InsuranceProvider, count(InsuranceProvider) as Number of Insurance
         from hospitaladmissions
 67
 68
         group by InsuranceProvider
         order by Number of Insurance desc;
 69
<
Export: Wrap Cell Content: IA
   InsuranceProvider Number of Insurance
                  13628
   Cigna
   Aetna
                  12442
   United Healthcare
                  9076
   Blue Cross
                  7514
   Humana
                  4772
   Anthem
                  1876
   Kaiser Permanente
                  591
   Health Net
                  92
   Oscar Health
```

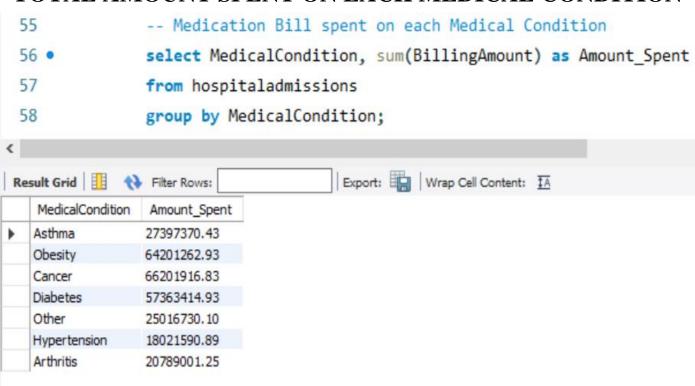
#### TOP 5 HOSPITAL WITH MOST PATIENTS



#### TOP 5 MOST CONSULTED DOCTORS

```
-- Top 5 Cunsulting Doctors
71
        select doctor, count(doctor) as Patients Consulted
72 •
73
        from hospitaladmissions
        group by doctor
74
        order by Patients_Consulted desc
75
        limit 5;
76
                                          Export: Wrap Cell Content: TA
Result Grid
              Filter Rows:
   doctor
                  Patients Consulted
  Dr. James Taylor
                 6073
  Dr. David Wilson
                  6052
  Dr. Linda Green
                  5751
  Dr. Sarah Harris
                  5506
  Dr. Robert Brown
                 4867
```

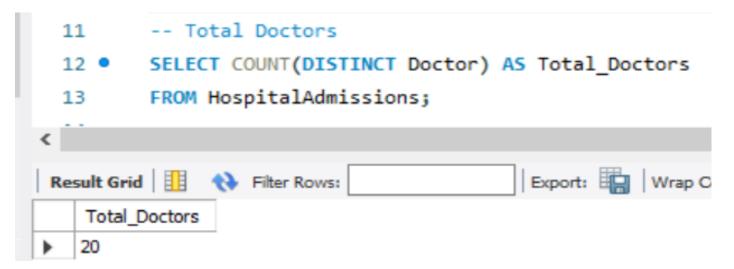
#### TOTAL AMOUNT SPENT ON EACH MEDICAL CONDITION



# TOTAL AND AVG BILL BY EACH HOSPITAL

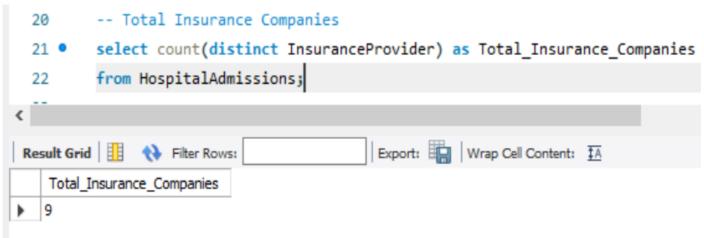
```
-- Bill analysis by hospital
  5
        select hospital,
  6 •
         sum(billingamount) as total billing,
  7
         avg(billingamount) as average_billing
  8
         from hospitaladmissions
  9
         group by hospital
 10
         order by total billing desc;
 11
                                            Export: Wrap Cel
Result Grid Filter Rows:
                     total_billing
    hospital
                                 average_billing
   City Medical Center
                    51846564.29
                                 5622,661782
٠
   CarePlus Hospital
                    51675969.73
                                5538.689146
   St. John's Medical
                    43997265.90
                                 5547.505472
   General Healthcare
                   37695145.43
                                 5527.957975
   BrightCare Clinic
                    33285069.54
                                 5592.249587
   Sons and Miller
                    21173804.13
                                 5538.531031
   Elite Medical Center
                    20990377.77
                                 5615,403363
   Sunrise Hospital
                   11418752.04
                                 5761.227064
   Parkview Health
                    4680615.89
                                 5778.538136
   Greenfield Hospital
                    1720519.02
                                 5659.602039
```

### **TOTAL DOCTORS**

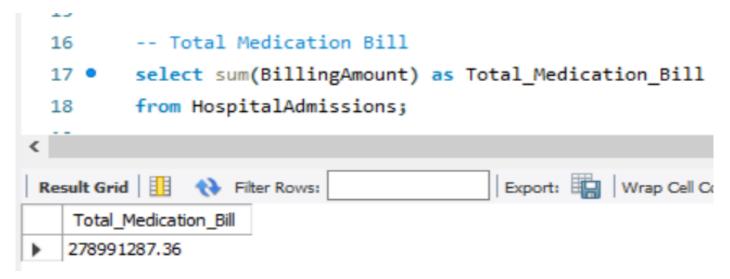


### TOTAL HOSPITALS IN RECORD

## TOTAL INSURANCE COMPANIES



# TOTAL MEDICATION BILL



# TOTAL NUMBER OF PATIENTS