

Practise file of Hospital Database(Md Arshad)

```
CREATE TABLE hospital_data (  
    "Hospital Name"      TEXT,  
    "Location"           TEXT,  
    "Department"         TEXT,  
    "Doctors Count"      INTEGER,  
    "Patients Count"     INTEGER,  
    "Admission Date"     DATE,  
    "Discharge Date"     DATE,  
    "Medical Expenses"   DECIMAL(12, 2)  
);
```

```
select * from hospital_data;
```

1. --Total Number of Patients

```
SELECT SUM("Patients Count") AS Total_Patients  
FROM hospital_data;
```

2. --Average Number of Doctors per Hospital

```
SELECT "Hospital Name", AVG("Doctors Count") AS Avg_Doctors  
FROM hospital_data  
GROUP BY "Hospital Name";
```

3. --Top 3 Departments with the Highest Number of Patients

```
SELECT "Department",  
       SUM("Patients Count") AS total_patients  
FROM hospital_data  
GROUP BY "Department"  
ORDER BY total_patients DESC  
LIMIT 3;
```

4. --Hospital with the Maximum Medical Expenses

```
SELECT "Hospital Name", SUM("Medical Expenses") AS Total_Expenses  
FROM hospital_data  
GROUP BY "Hospital Name"  
ORDER BY Total_Expenses DESC  
LIMIT 1;
```

5. --Daily Average Medical Expenses

```
SELECT "Hospital Name", AVG("Medical Expenses") AS Avg_Daily_Expenses  
FROM hospital_data  
GROUP BY "Hospital Name";
```

6. --Longest Hospital Stay

```
SELECT "Hospital Name",  
       "Department",  
       "Admission Date",  
       "Discharge Date",  
       ("Discharge Date"::date - "Admission Date"::date) AS stay_days  
FROM hospital_data  
ORDER BY stay_days DESC  
LIMIT 1;
```

7. --Total Patients Treated Per City

```
SELECT "Location" AS City, SUM("Patients Count") AS Total_Patients  
FROM hospital_data
```

```
GROUP BY City;
```

8. --Average Length of Stay Per Department

```
SELECT "Department",  
       AVG(("Discharge Date"::date - "Admission Date"::date)) AS  
avg_stay_days  
FROM hospital_data  
GROUP BY "Department";
```

9. --Department with the Lowest Number of Patients

```
SELECT "Department", SUM("Patients Count") AS Total_Patients  
FROM hospital_data  
GROUP BY "Department"  
ORDER BY Total_Patients ASC  
LIMIT 1;
```

10. --Monthly Medical Expenses Report

```
SELECT TO_CHAR("Admission Date"::date, 'YYYY-MM') AS month,  
       SUM("Medical Expenses") AS total_monthly_expenses  
FROM hospital_data  
GROUP BY month  
ORDER BY month;
```