

# SQL HOSPITAL MANAGEMENT SYSTEM

## Project Overview

The SQL Hospital Management System is designed to streamline hospital operations by managing patient data, doctor information, appointments, medical records, billing, and more. This project demonstrates how SQL databases can be used to handle and retrieve complex data in a healthcare environment efficiently.

# Total Number of Patients

```
SELECT COUNT (*) AS TotalPatients
FROM healthcare;
```

	TotalPatients
1	10000



# Average Age of Patients

```
select avg(Age) as Age_of_patients  
from healthcare;
```

	Age_of_patients
1	51



# Number of Male and Female Patients

```
select Gender, count (*) as gender_count
from healthcare
group by Gender;
```

	Gender	gender_count
1	Male	4925
2	Female	5075



# Most Common Blood Type

```
SELECT Blood_Type, COUNT(*) AS blood_count
FROM healthcare
GROUP BY Blood_Type
ORDER BY blood_count DESC;
```

	Blood_Type	blood_count
1	AB-	1275
2	AB+	1258
3	B-	1252
4	O+	1248
5	O-	1244
6	B+	1244
7	A+	1241
8	A-	1238



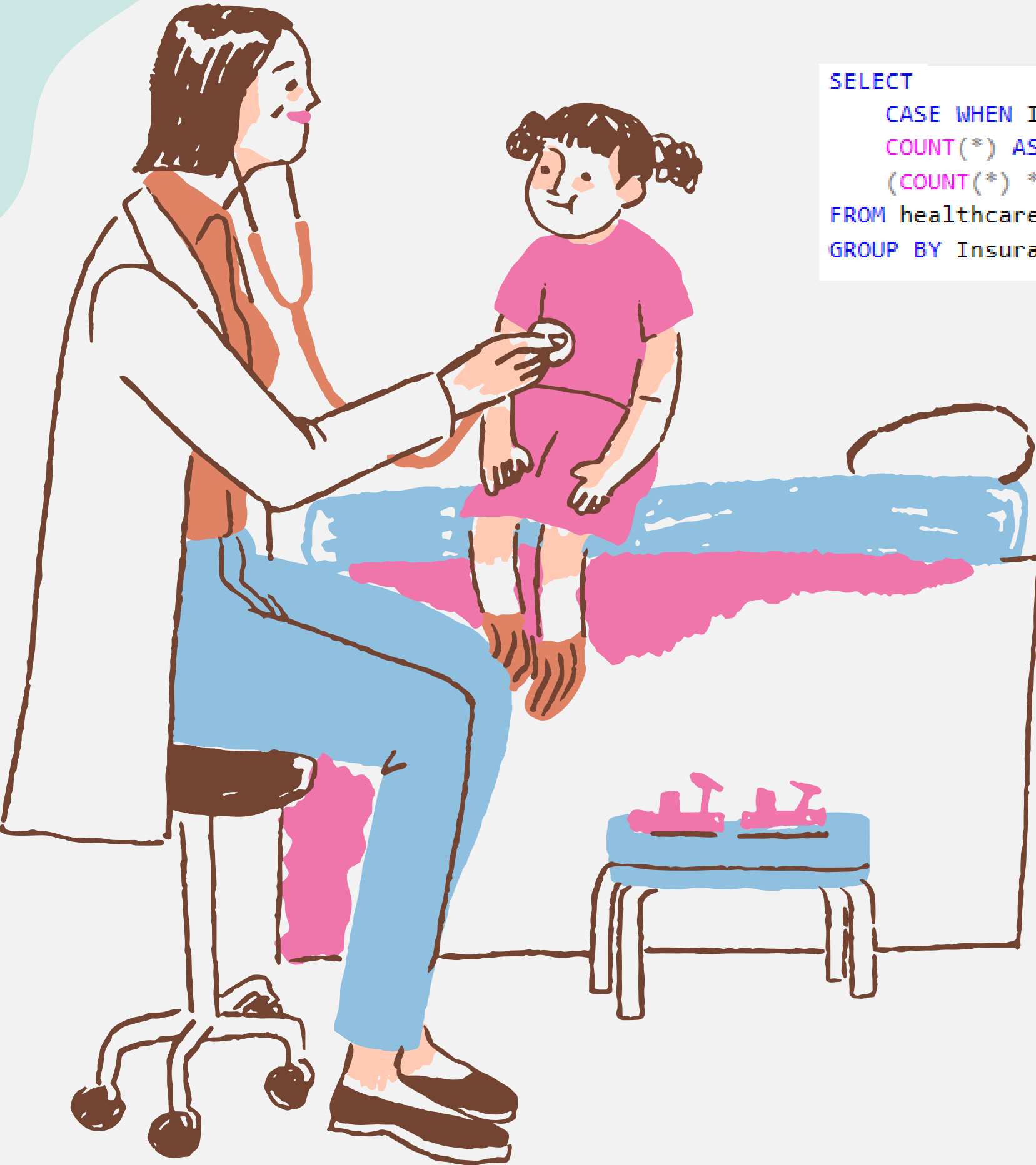
# Average Billing Amount per Admission Type

```
SELECT Admission_Type, AVG(Billing_Amount) AS AvgBillingAmount
FROM healthcare
GROUP BY Admission_Type;
```

	Admission_Type	AvgBillingAmount
1	Elective	25891.8326608045
2	Urgent	25960.8335438635
3	Emergency	24708.51191246



# Percentage of Patients with Insurance Coverage



```
SELECT
  CASE WHEN Insurance_Provider IS NOT NULL THEN 'Insured' ELSE 'Uninsured' END AS Insurance_status,
  COUNT(*) AS Count,
  (COUNT(*) * 100.0 / (SELECT COUNT(*) FROM healthcare)) AS Percentage
FROM healthcare
GROUP BY Insurance_Provider;
```

	Insurance_status	Count	Percentage
1	Insured	1978	19.78000000000000
2	Insured	2032	20.32000000000000
3	Insured	2040	20.40000000000000
4	Insured	1925	19.25000000000000
5	Insured	2025	20.25000000000000

# Number of Patients per Medical Condition

```
SELECT Medical_Condition, COUNT(*) AS Patient_Count
FROM healthcare
GROUP BY Medical_Condition
ORDER BY Patient_Count DESC;
```

	Medical_Condition	Patient_Count
1	Asthma	1708
2	Cancer	1703
3	Hypertension	1688
4	Arthritis	1650
5	Obesity	1628
6	Diabetes	1623

