

Hospital Project Analysis

SQL Cleaning

1. Replace 2 Null Values from tables ("Name", "Doctor") with unknown
2. Check types of each column and convert columns types considering values
["AdmissionDate", "DischargeDate"] to date type
3. Handle Case of "Status" Column to Lower case

Python Cleaning

1. Check types of each column and convert columns types considering values
["Name", "Gender", "Diagnosis", "Medication", "Doctor", "Department", "Status"] to String
["Age"] to numeric
2. Convert text values in Age Column to number using "word2number" Library
3. Remove Spaces from each cell if exist

SQL to Answer the Questions

- What is the average age of patients for each diagnosis?

<u>Hypertension</u>	42.5000
<u>Diabetes</u>	39.5000
<u>Asthma</u>	55.0000
<u>Flu</u>	29.0000
<u>Heart Disease</u>	62.0000
<u>Kidney Disease</u>	49.0000
<u>Pneumonia</u>	37.0000

- Which department has the highest number of admitted patients?

✓ **Cardiology** 3
Endocrinology 2
Pulmonology 2
General Medicine 2
Nephrology 1

- How many patients have been discharged per month?

<u>Month</u>	<u>No. of discharged</u>
1	3
5	2
6	1
7	1
8	1
10	1
12	1

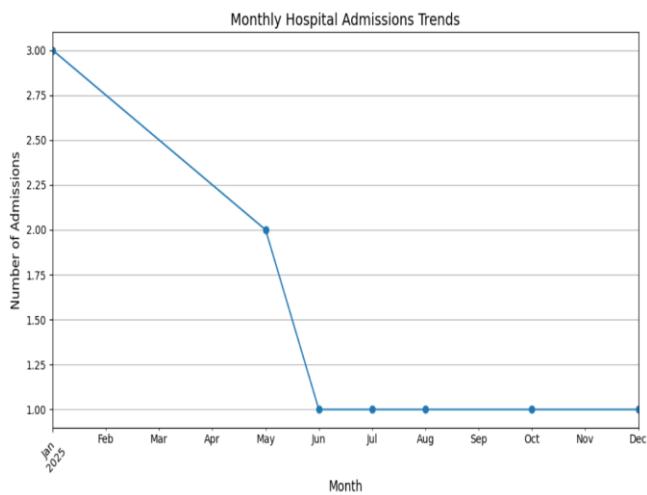
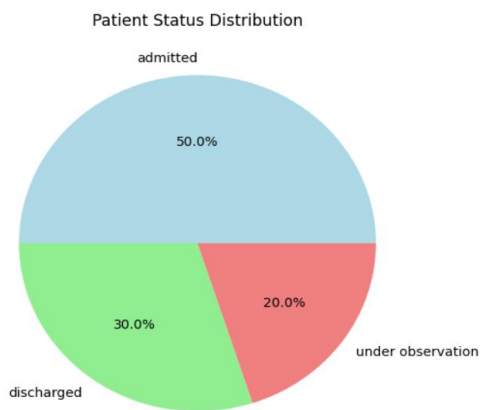
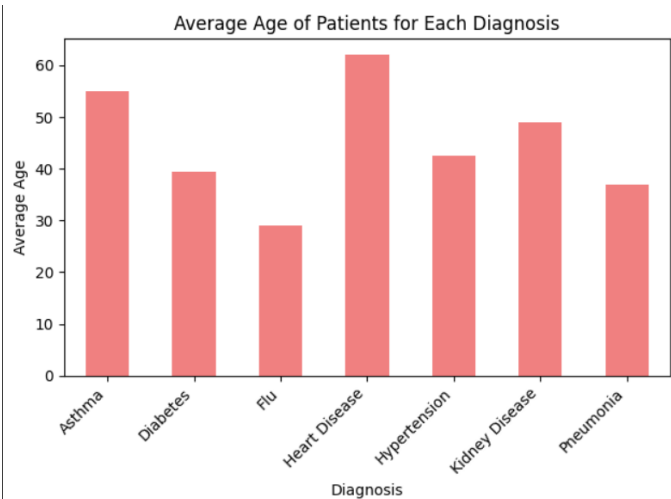
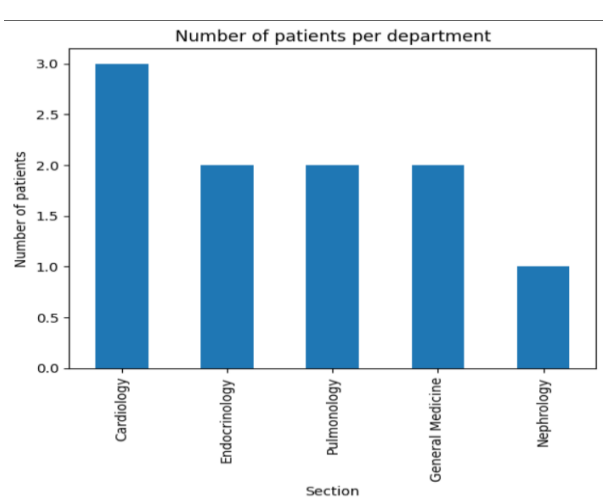
• What is the most common diagnosis among patients?

Hypertension 2

• Which doctor has treated the most patients?

Dr. Smith 3

Python Visualizations



Recommendations for hospital management

which departments need more resources

- Cardiology

common patient demographics

- Avg Age of Patients is 44.8 years