Healthcare Data Analysis Report

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The Healthcare Data Analysis Dashboard provides key insights into patient admissions, hospital billing, insurance coverage, and medical conditions. Below is an informative summary based on the visualizations:

1. Yearly Admission Trends (By Gender)

The dataset shows consistent hospital admissions from 2019 to 2023, with nearly equal male and female patients.

In 2024, admissions have significantly dropped, indicating a possible trend that requires further investigation (policy changes, pandemic effects, or hospital capacity).

Count of Name	Column Labels		
Date Of Admission	Female	Male	Grand Total
2019	3709	3678	7387
2020	5598	5687	11285
2021	5515	5416	10931
2022	5454	5563	11017
2023	5541	5485	11026
2024	1909	1945	3854
Grand Total	27726	27774	55500

2. Hospital Billing Amounts

Billing amounts vary across different hospitals.

Some hospitals, like Abbott Ltd and Abbott, Peters & Hoffman, have significantly higher billing, indicating either higher patient inflow or higher treatment costs.

Hospital	Sum of Billing Amount
Abbott and Thompson, Sullivan	16738.56976
Abbott Inc	38052.04192
Abbott Ltd	29877.58648
Abbott Moore and Williams,	24799.59634
Abbott, Peters and Hoffman	37684.79373
Abbott, Vazquez Bautista and	14117.14264
Abbott-Castillo	18397.74215
Abbott-Coleman	19751.9995
Abbott-Ferrell	99.93357859
Abbott-Hill	13260.13978
Grand Total	212779.5459

3. Admission Type vs. Billing Rate

The admissions are divided into Elective (34%), Urgent (33%), and Emergency (33%).

Elective treatments have the highest billing rate, suggesting they involve costly procedures or prolonged hospital stays.

Admission Type	Billing Rate
Elective	477609531.8
Emergency	465811948.7
Urgent	474010562.9
Grand Total	1417432043

4. Insurance Coverage by Gender

The insurance providers include UnitedHealthcare, Medicare, Cigna, Blue Cross, and Aetna.

The number of male and female patients covered is almost equal, indicating a balanced distribution of insurance support.

Count of Name	Column Labe		
Insurance	Female	Male	Grand Total
Aetna	5382	5531	10913
Blue Cross	5565	5494	11059
Cigna	5652	5597	11249
Medicare	5575	5579	11154
UnitedHealthcare	5552	5573	11125
Grand Total	27726	27774	55500

5. Monthly Admission Trends by Type

Urgent cases have the highest admissions throughout the year, followed by emergency and elective cases.

A consistent upward trend in admissions suggests an increasing demand for healthcare services.

Count of Name	Column Labels			
Months	Elective	Emergency	Urgent	Grand Total
Jan	1599	1502	1564	4665
Feb	1467	1471	1381	4319
Mar	1541	1554	1530	4625
Apr	1469	1516	1514	4499
May	1595	1564	1537	4696
Jun	1582	1473	1519	4574
Jul	1621	1543	1629	4793
Aug	1600	1562	1603	4765
Sep	1579	1544	1598	4721
Oct	1565	1521	1580	4666
Nov	1480	1472	1571	4523
Dec	1557	1547	1550	4654
Grand Total	18655	18269	18576	55500

6. Medical Condition vs. Total Doctors Available

The number of doctors assigned per medical condition remains evenly distributed, showing a balanced doctor-to-patient ratio. This suggests that no particular condition is experiencing a doctor shortage.

Medical Conditio	Total Doctor
Arthritis	9308
Asthma	9185
Cancer	9227
Diabetes	9304
Hypertension	9245
Obesity	9231
Grand Total	55500

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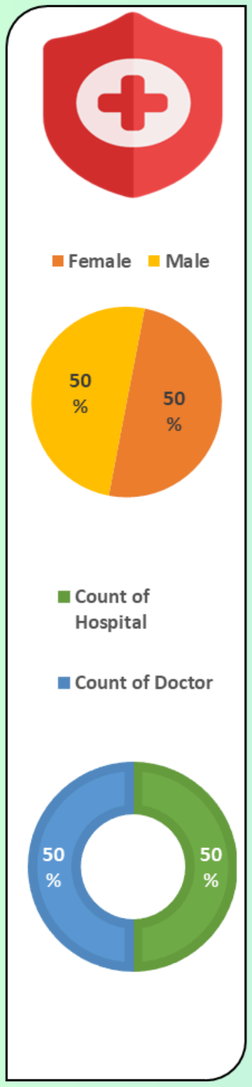

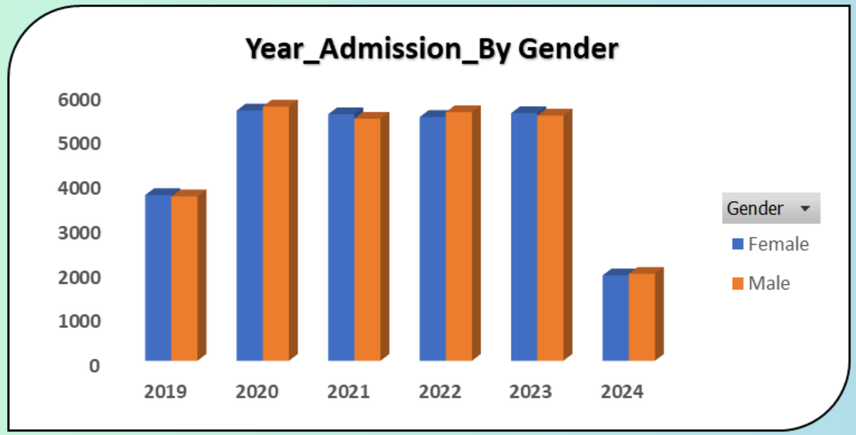

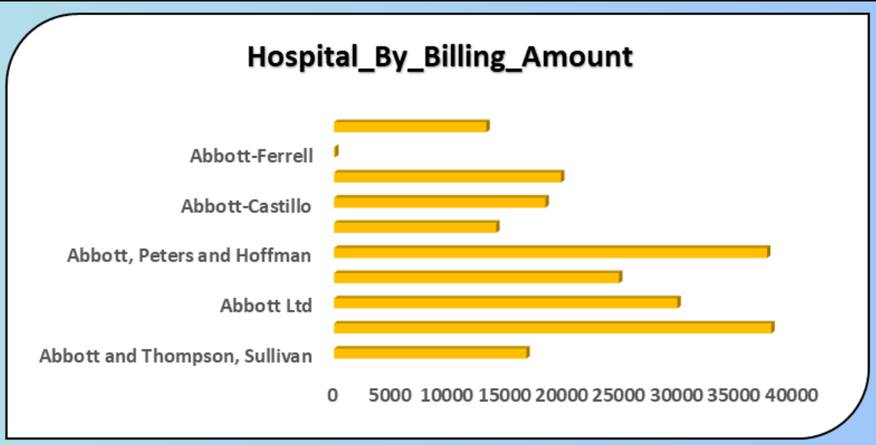

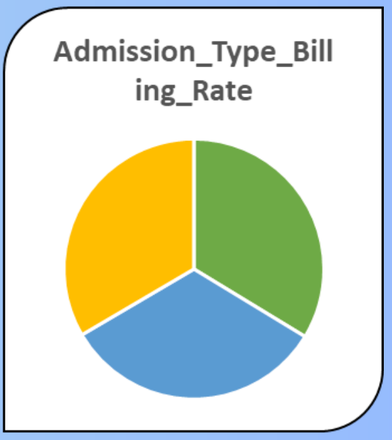

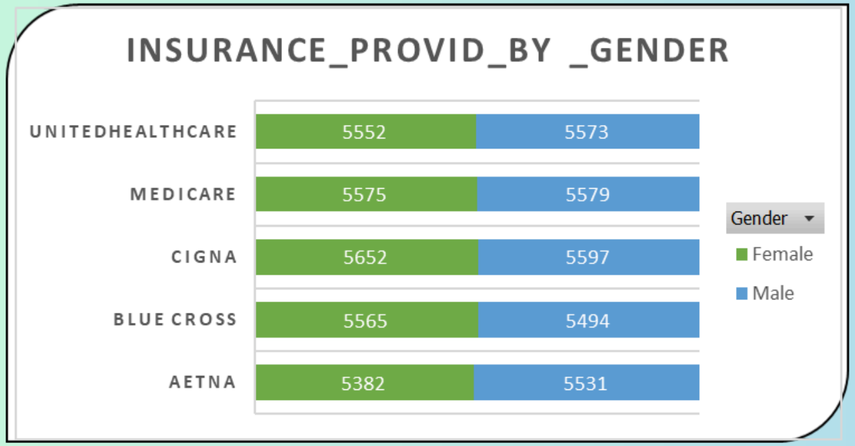

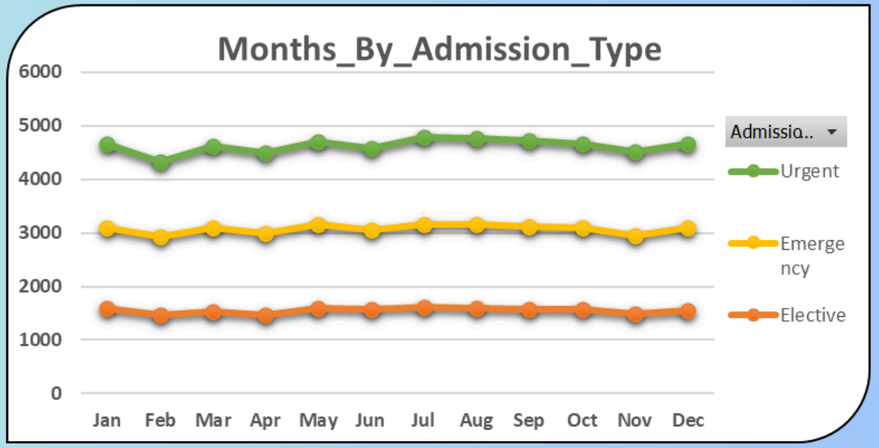

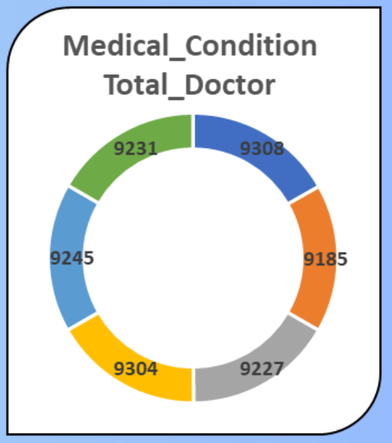

Key Takeaways & Recommendations

✅ Admission Drop in 2024: Investigate the reason behind the decline.

✅ Billing Insights: High-cost hospitals should be analyzed for expense breakdowns.

✅ Insurance Equality: No major gender disparity in insurance coverage.

✅ Doctor Distribution: Ensure continued balance to avoid patient overload.

✅ Future Enhancements: Introduce deeper analysis on disease patterns, hospital performance, and cost efficiency.

This dashboard provides a comprehensive overview of hospital performance, patient trends, and financial insights, making it a valuable tool for decision-making in healthcare management.

Thank
You