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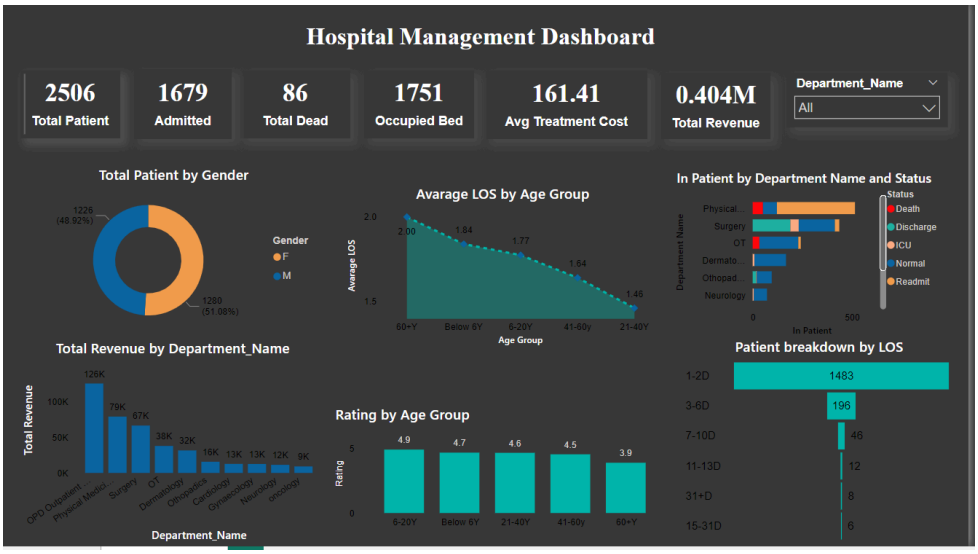
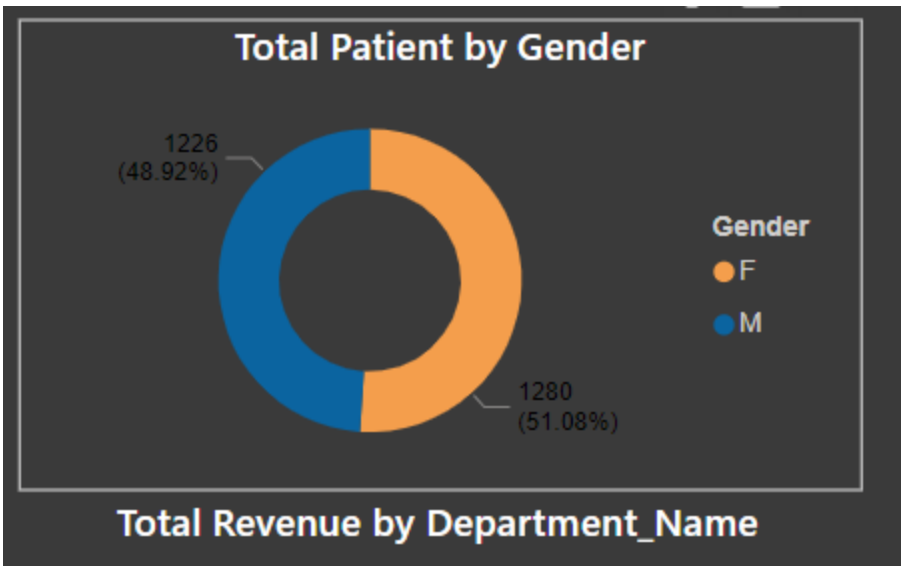
DIV	BE COMPS [ADV -> BATCH F]`
ADV EXP 3	

AIM	To apply Data Visualization by PowerBI on HealthCare Dataset
Dataset Particulars	**Name: HealthCare Management Dataset** Link: https://www.kaggle.com/datasets/healthcare568/healthcare-management Dataset Features : 1) It contains 19 Features as follows which gives in depth idea about the shopping habits of the Indian Market. a) Staff_Id: Unique identifier for the staff member. b) Bed_ID: Unique identifier for the bed assigned to a patient. c) Dpt_ID: Unique identifier for the department. d) ID: Likely a unique identifier for the patient or an entry in this dataset. e) Name: The name of the patient. f) Gender: The gender of the patient. g) City: The city where the patient resides. h) State: The state where the patient resides. i) Age: The age of the patient. j) Patient type: Category or type of the patient (e.g., inpatient, outpatient). k) Status: Current status of the patient (e.g., discharged, admitted). l) treatemencost: Cost associated with the treatment. m) Bed: Information about the bed, possibly its type or category. n) LOS: Length of Stay of the patient in the hospital. o) ER_Time: Time spent in the Emergency Room. p) Date: Likely the date of admission, discharge, or a significant event. q) Feedback: Feedback provided by the patient or associated with their care. r) Rating: A rating, possibly from the feedback or patient satisfaction. s) Age Bucket: Categorical age range (e.g., 0-18, 19-35, etc.).

	2) The shape of the dataset is : [2501* 19]
Data Visualisations	**Dashboard** 

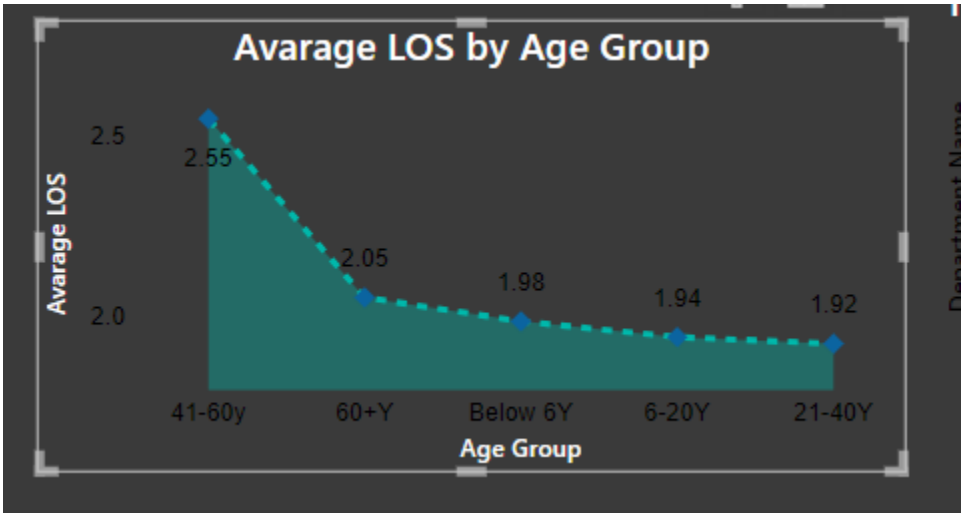
Analysis	 1) Pie Chart a) The revenue is earned more from females patients b) The largest of this share of feamles comes from OPD [from diagnosis , minor procedured etc] c) Even the department wise data shows , most were admitted in Physical admission and rehab dept. d) The max days of stays for women comes out to be 1-2days and is highest in the age grp of 21-40 yrs. **e) This data suggest that the revenue earned from minor injuries gains more revenue to hospital vs Long stay days.** **f) This is in turn true as well because , hospital have minimum expenditure in OPD vs other surgical departments .**

2) **Area Chart**

a) **Heres a Dept wise view of Avg LOS**

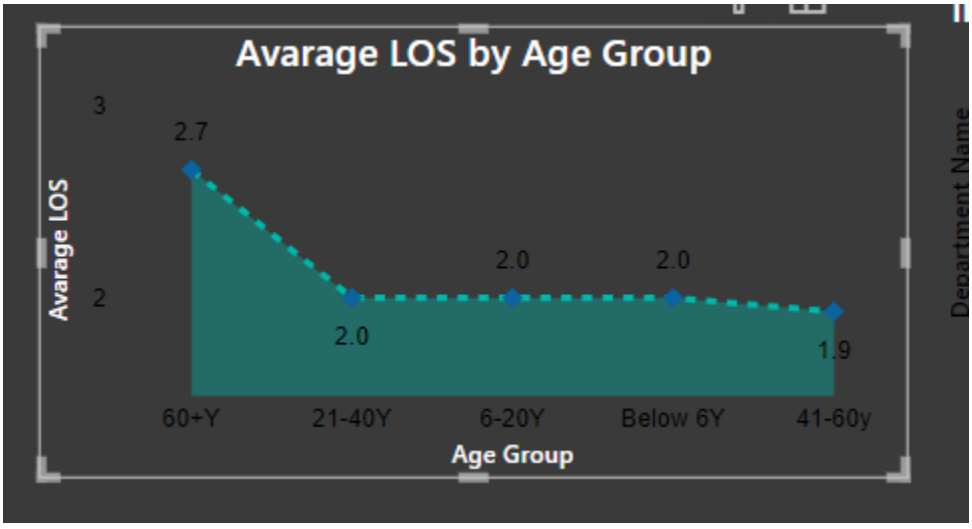
i) **Physical Medication n Rehab**

(1) As seen , the increase in LOS as we go towards senior citizen



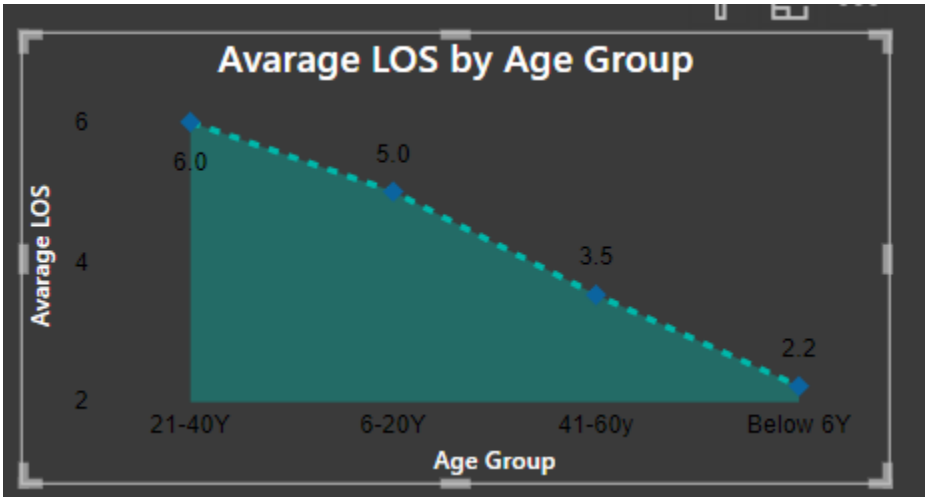
ii) **Cardiology**

(1) The LOS for cardiology department incraseas from adulthood to senior citizen , suggesting longer durations



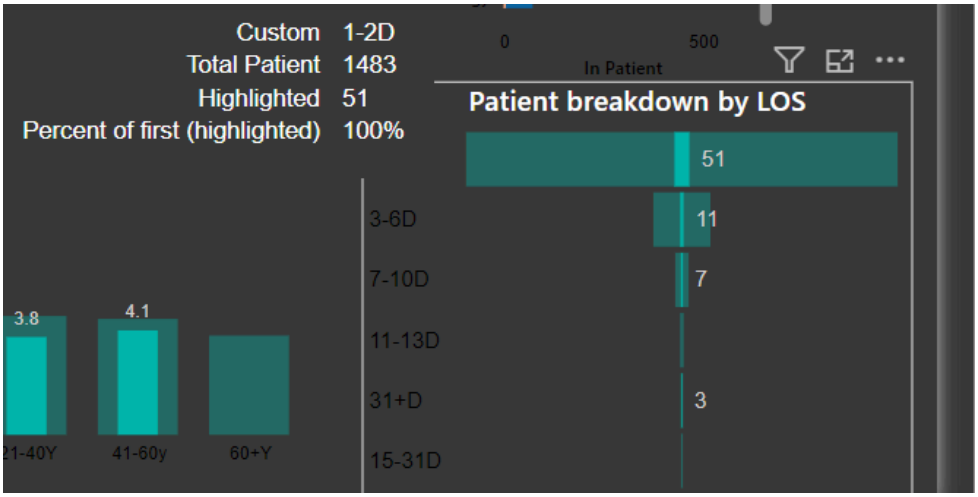
iii) Gynaceology

(1) LOS increase post adulthood

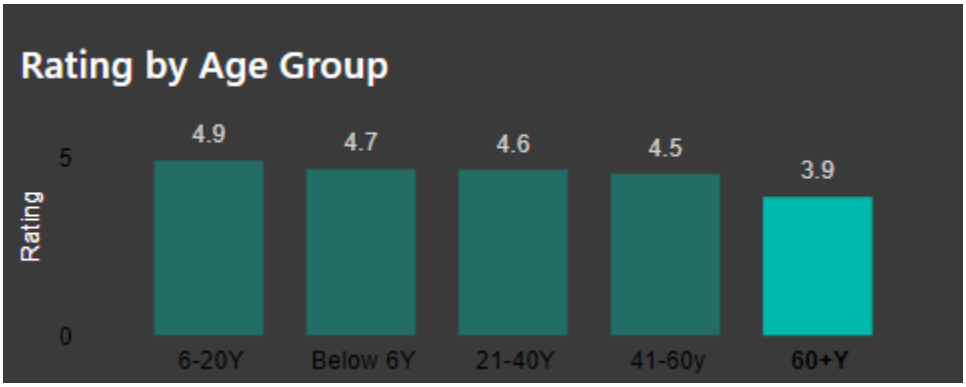


Hence Age group increases , the LOS increase in various department

3) Funnel Chart



1) Even for the department which has lowest patient [at the time the dataset was made] which is neurology , maximum patients are seen in LOS of 1-2 Days
2) **This suggests , that to gain more revenue and better ratings the hospital should increase the facilities and quality of it provides for 1-2 Days stay**

	4) Bar Graph  1) The data suggest the lowest ratings is given by the Age group of 60yrs plus 2) Upon further analysis , it is come to notice that the senior citizen were admitted most to OT department and the highest LOS is 1-2 days. **3) Hence the hospital should have better facilities in OT department along with better facilities for shorter treatments [1-2 days LOS]**
Conclusion	By performing this experiment i learnt to select the apt Data visualtization for ther data and create a interactive dashboard. I also got a chance to explore Power BI themes .