

# **Cognos Embedded with Web application**

**TEAM ID : PNT2022TMID03446**

**BATCH NO : B2-2M4E**

**PROJECT : Analytics for Hospitals Health-Care Data**

**DATE : 13 NOV 2022**



# **ANALYTICS FOR HOSPITAL'S** **HEALTH - CARE DATA**

PROJECT CONTRIBUTORS

Mythili P  
Kousalya R  
Lalitha Parameswari C  
Dhivya Lakshmi S

Team ID:PNT2022TMID03446

# HOSPITAL DATA ANALYTICS

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## ANALYZE YOUR DATA

We are team of talented analyst to understand the Hospital's Health care data

GET STARTED





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HOSPITAL DATA A

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## Problem Statement


Patient length of stay is one critical parameter to observe and predict if one wants to improve the efficiency of the healthcare management in a hospital. The parameters helps hospitals to identify patients of high LOS-risk (patients who will stay longer) at the time of admission. Once identified, patients with high LOS risk can have their treatment plan optimized to minimize LOS and lower the chance of staff/visitor infection. .

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### GOAL

The goal is to accurately predict the Length of Stay for each patient on case by case basis The length of stay is divided into 11 different classes ranging from 0-10 days to more than 100 days.



### SKILLS REQUIRED

Exploratory Data Analysis, IBM Cloud



### ACTIVITIES

1. IBM Cloud Account
2. Login to Cognos Analytics
3. Working with the Dataset
4. Understanding the Dataset
5. Create multiple analytical Visualizations.
6. Using the Analytical Visualizations, build the required Dashboard, Report, Story.

↑

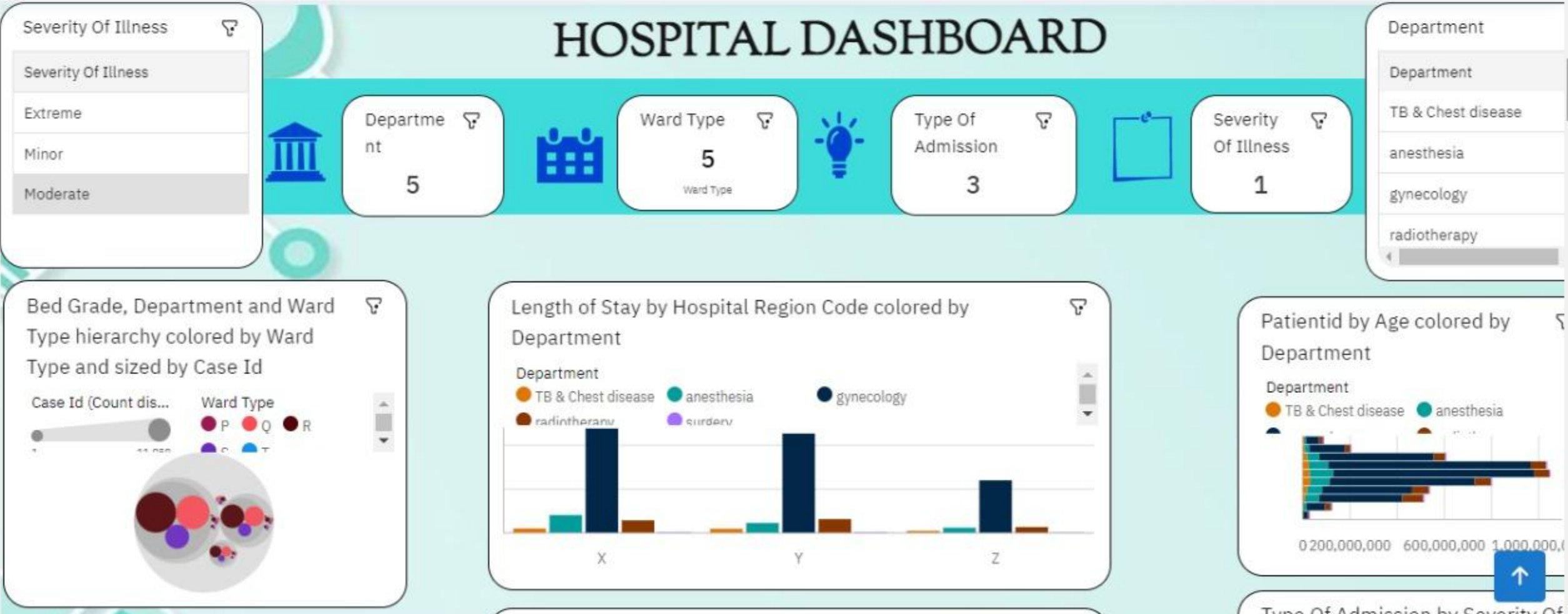
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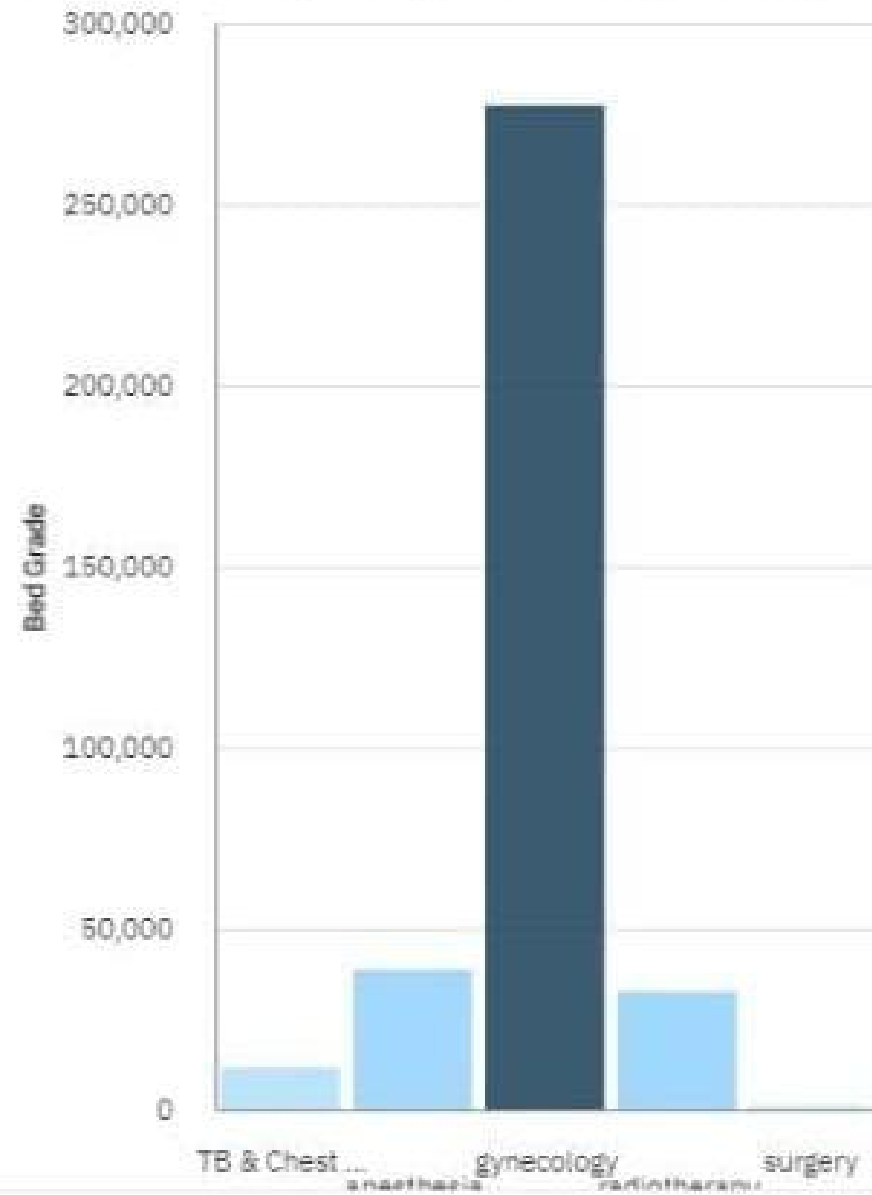
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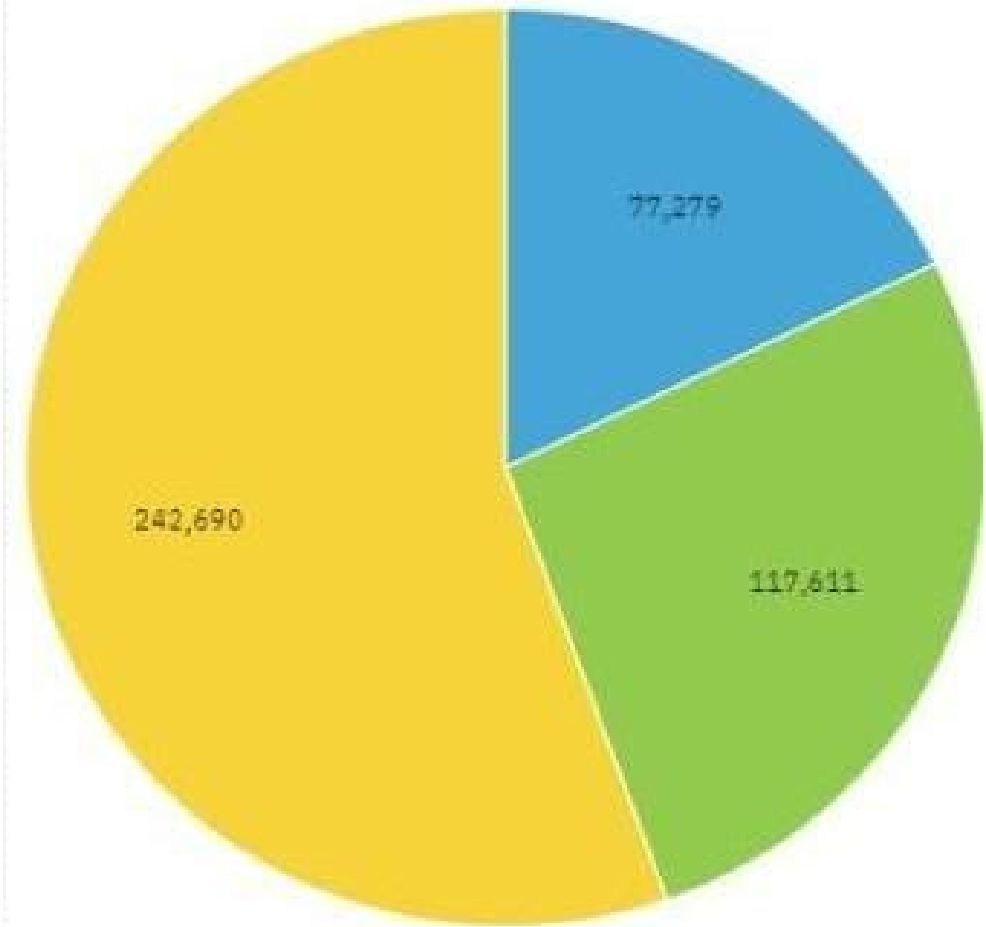


BED GRADE ON DEPARTMENT BASED ON AVAILABILITY OF EXTRA ROOMS



+

BED GRADE BASED ON SEVERITY OF ILLNESS





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## ANALYTICS FOR HOSPITAL HEALTH'S CARE DATA



# HOSPITAL DATA ANALYTICS

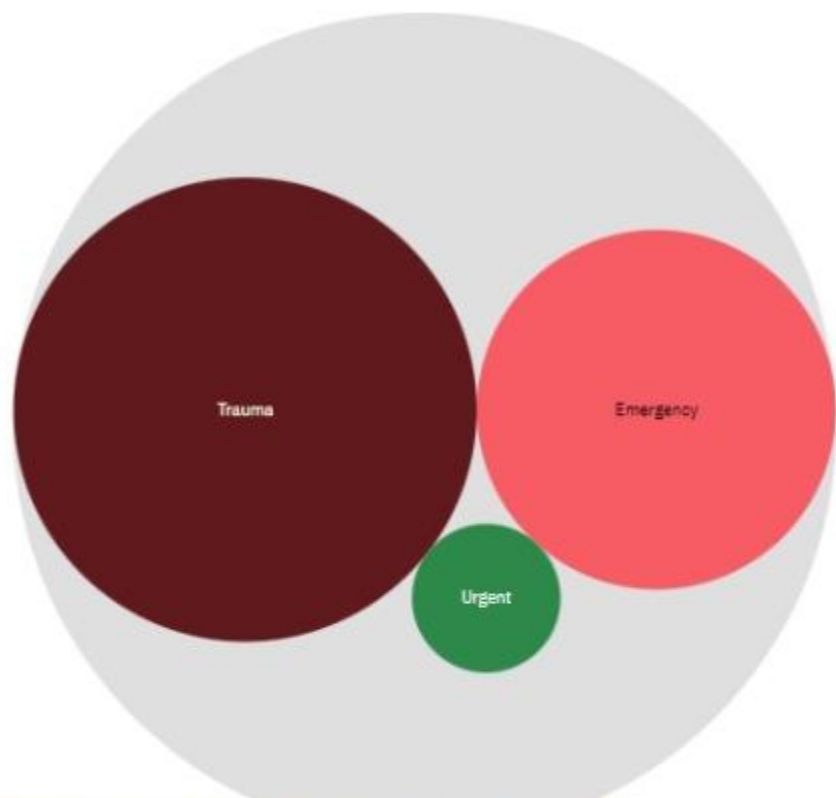
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Type Of Admission hierarchy colored by Type Of Admission and sized by Number of patients

Number of patient... Type Of Admission

20,969 66,411

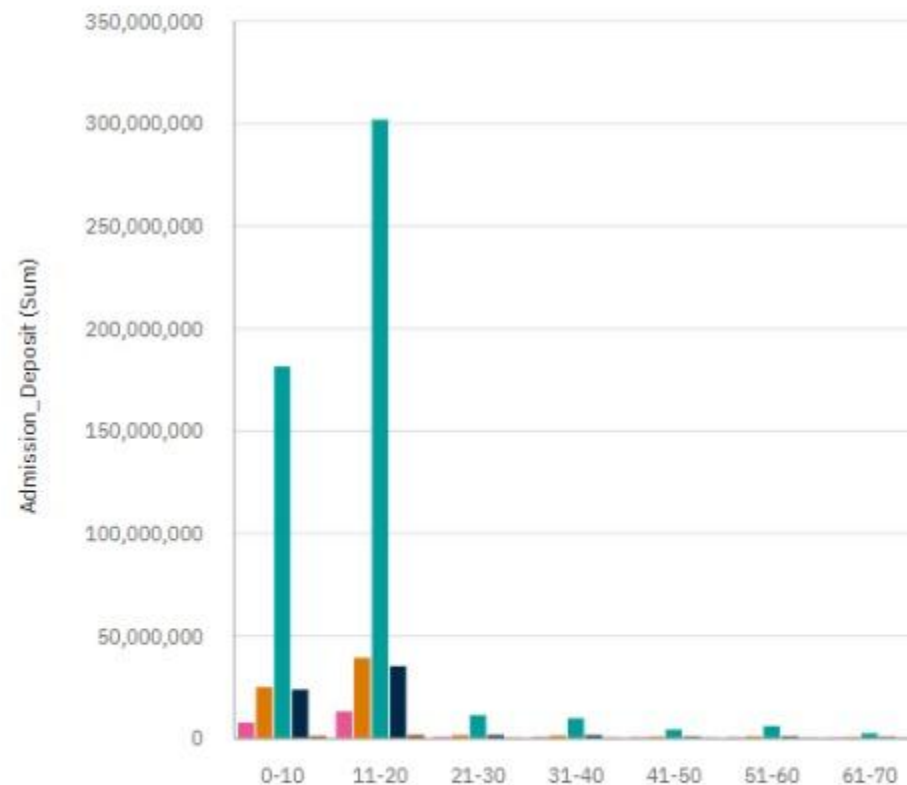
Emergency Trauma Urgent



Admission\_Deposit by Stay colored by Department

Department

TB & Chest disease anesthesia gynecology radiotherapy surgery





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## HOSPITAL HEALTH CARE

Data analytics in the healthcare industry represents the automation of collection, processing, and analysis the complex healthcare data, to gain better insights and enable healthcare practitioners to make well-informed decisions

Data Collection

Visualizations

Dashboard

Report

Story

### Data Collection

*The impact COVID-19 has had on the health care industry is evident to anyone and everyone. With digital data collection, there is more and more health care data to be analyzed every second.*

Collecting healthcare data is the systematic collection, analysis, and interpretation of health information. Data is essential for action planning, implementation, and evaluation of public health practice. Data is beneficial for doctors or analysts who study statistics or attempt to discover more effective treatments.



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## TEAM



Mythili P

Team Lead



Kousalya R

Team Member 1



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Lalitha Parameswari C  
Team Member 2



Dhivya Lakshmi S  
Team Member 3



## Data Analytics

### Useful Links

- > Home
- > Dashboard
- > Report





