

PROJECT DEVELOPMENT PHASE SPRINT DELIVERY -3

Team ID	PNT2022TMID21554
Project Name	Analytics for Hospital's Health-Care Data

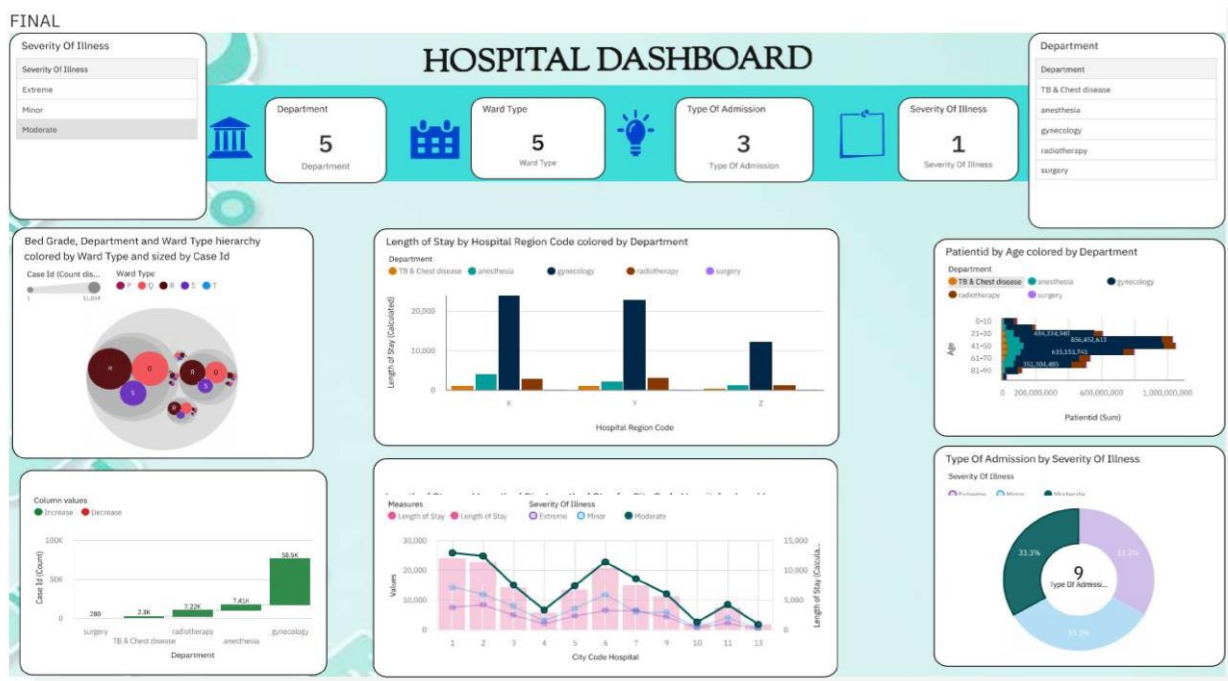
Sprint 1 <ul style="list-style-type: none"> Collection of Data Loading the data Data Preparation and Visualization 	Sprint2 <ul style="list-style-type: none"> Exploration of Dataset Visualization of Dataset
Sprint3 <ul style="list-style-type: none"> Dashboard Creation Prediction of Length of Stay 	Sprint4 <ul style="list-style-type: none"> Monitoring the Model/System Accuracy Report Creation

Goal of this project:

The goal is to accurately predict the Length of Stay for each patient on case by case basis so that the Hospitals can use this information for optimal resource allocation and better functioning. The length of stay is divided into 11 different classes ranging from 0-10 days to more than 100 days.

Sprint Delivery 3 :

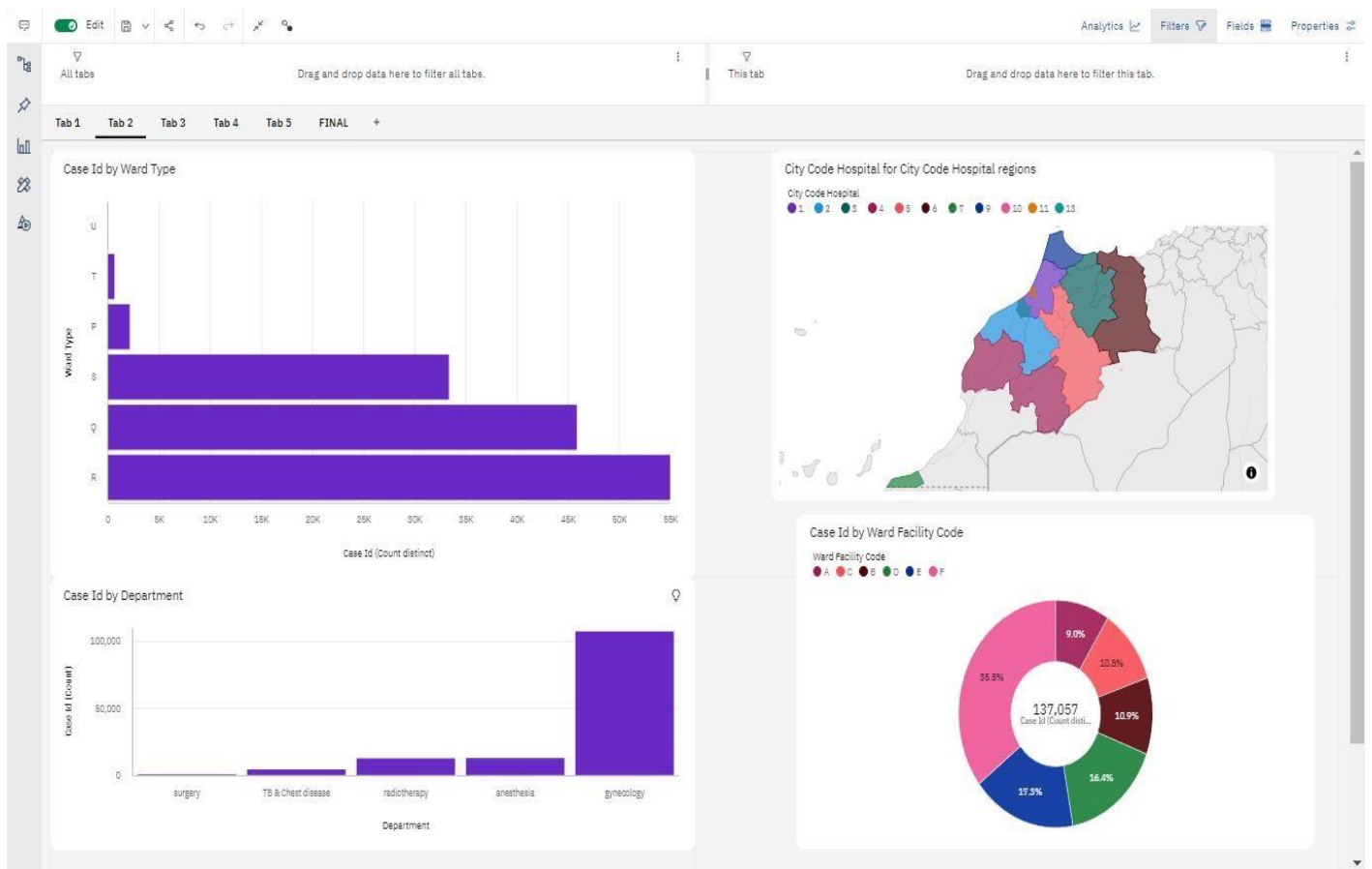
Dashboard creation:



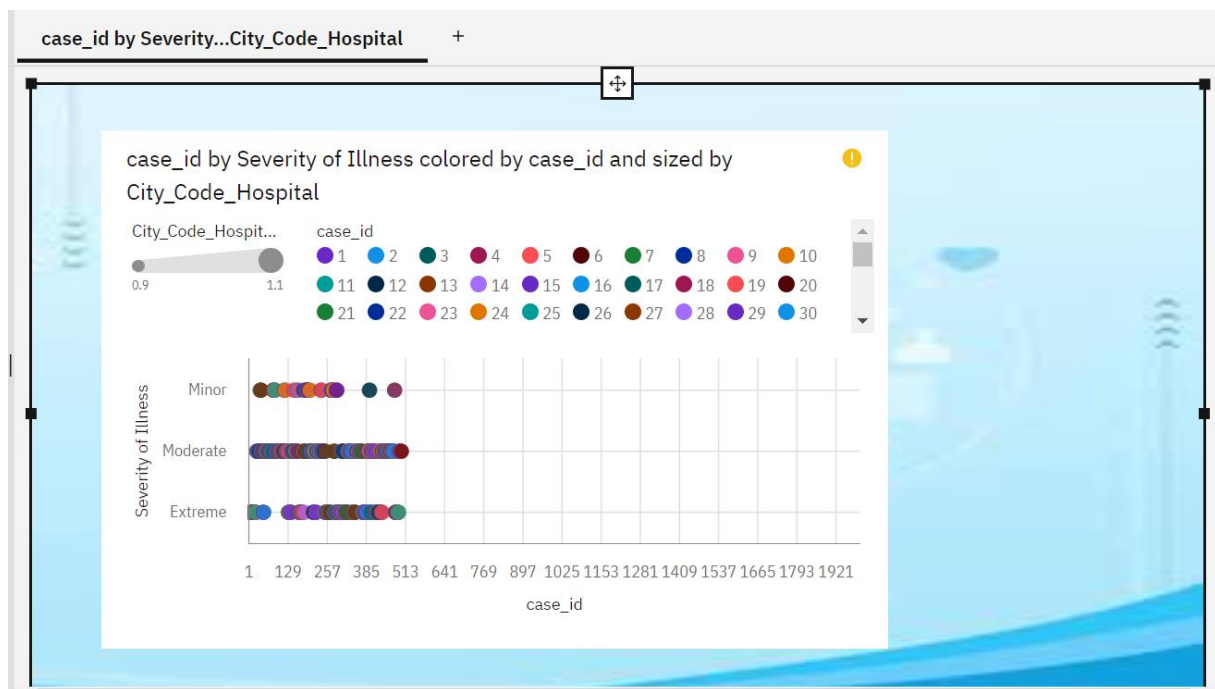


Dash board with the following visuals to present various analytics of Hospitals.

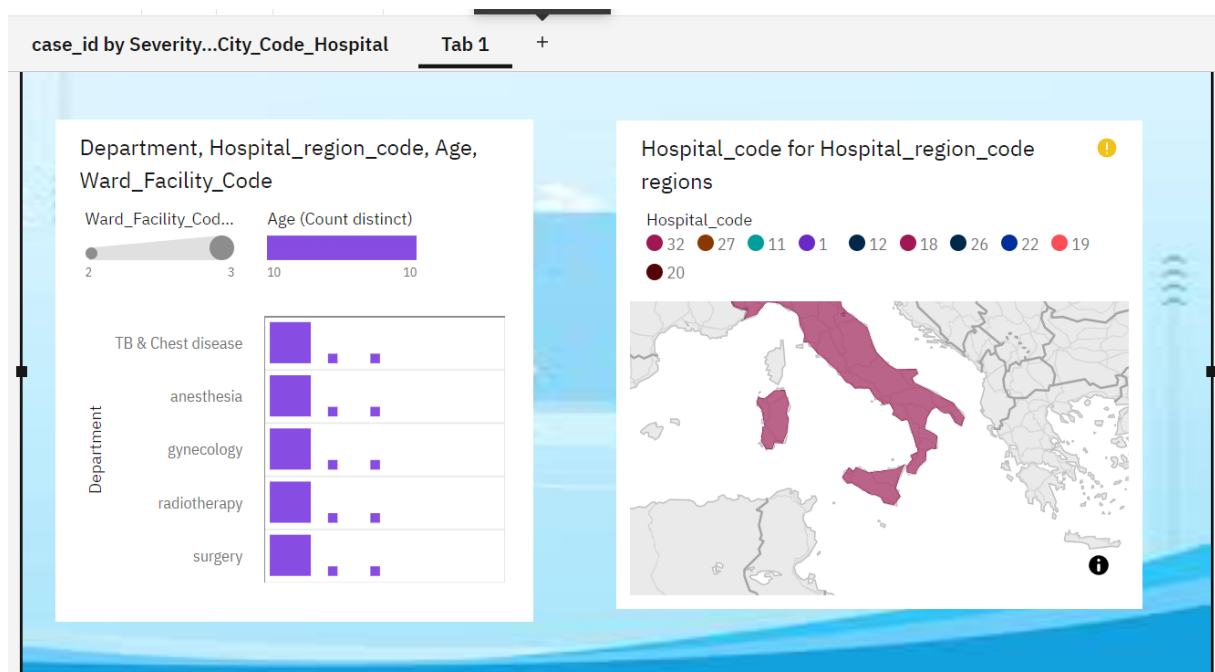
- Bar Chart to show case number of Cases based on Ward Type
- Geo Map to show case number of cases based on City, Hospital and Region
- Column Chart to show case Number of Cases by each Department
- Pie-Chart show case the Number of Cases by Ward Facility type.



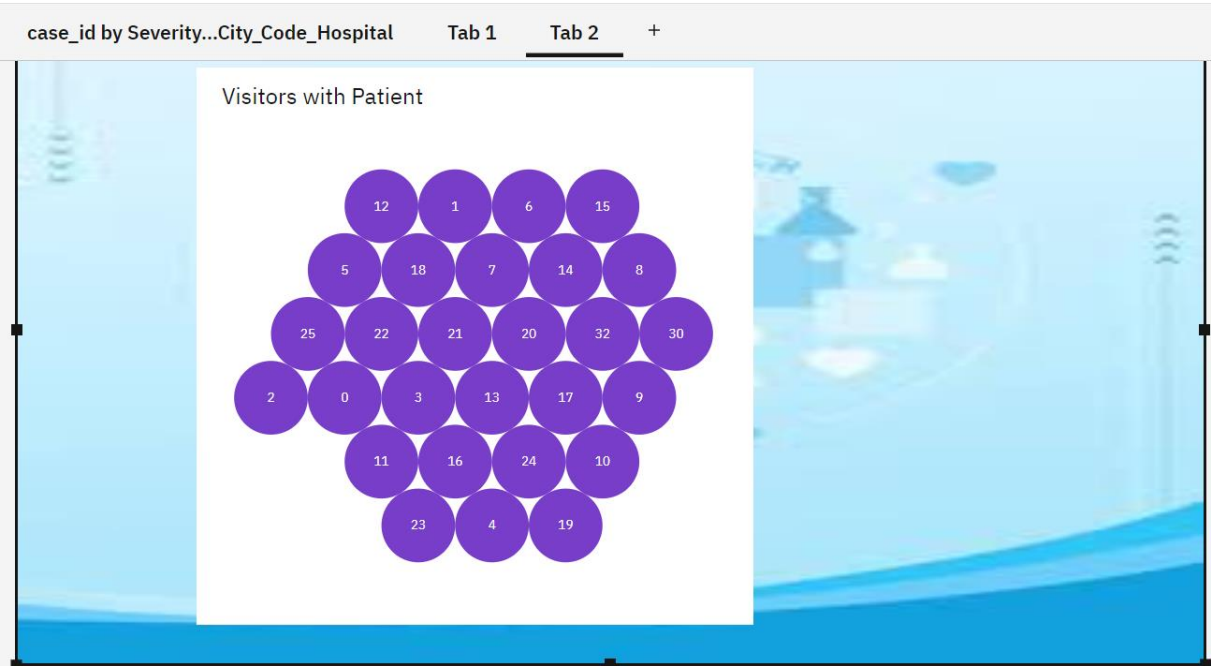
Case_id by Severity of Illness colored by case_id and sized by City_Code_Hospital



- Department, Hospital_region_code, Age, Ward_Facility_Code
- Hospital_code for Hospital_region_code regions

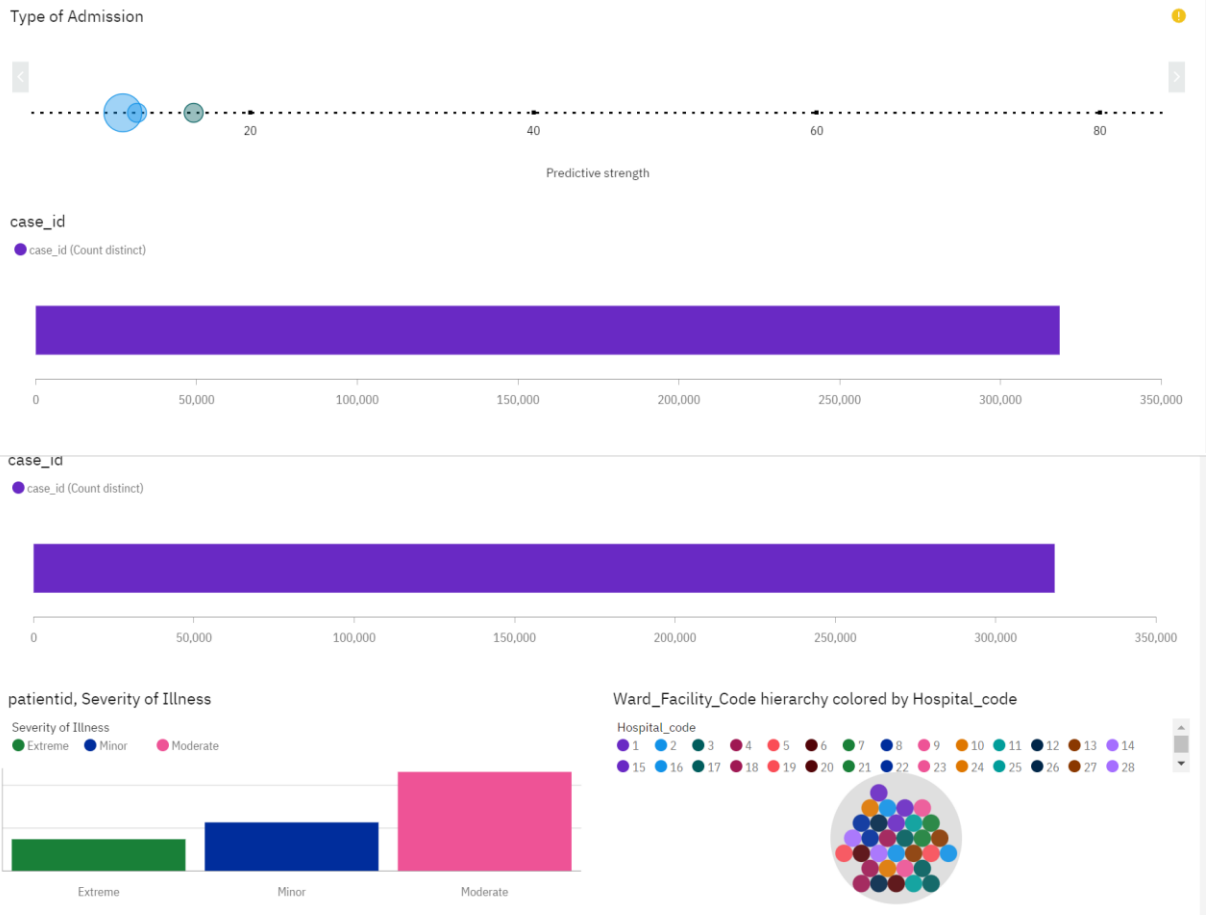


Dashboard to show Visitors with Patient



Dashboard to show

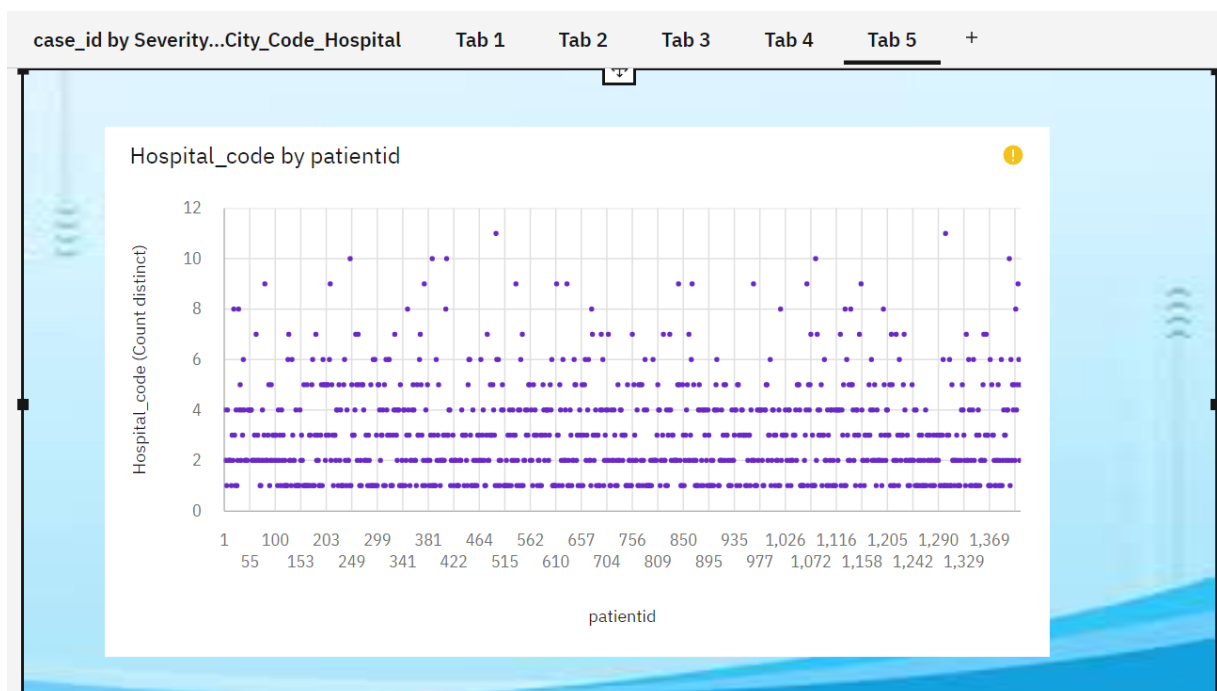
- Type of Admission
- case_id
- patientid, Severity of Illness
- Ward_Facility_Code hierarchy colored by Hospital_code



Admission_Deposit for patientid colored by Ward_Facility_Code

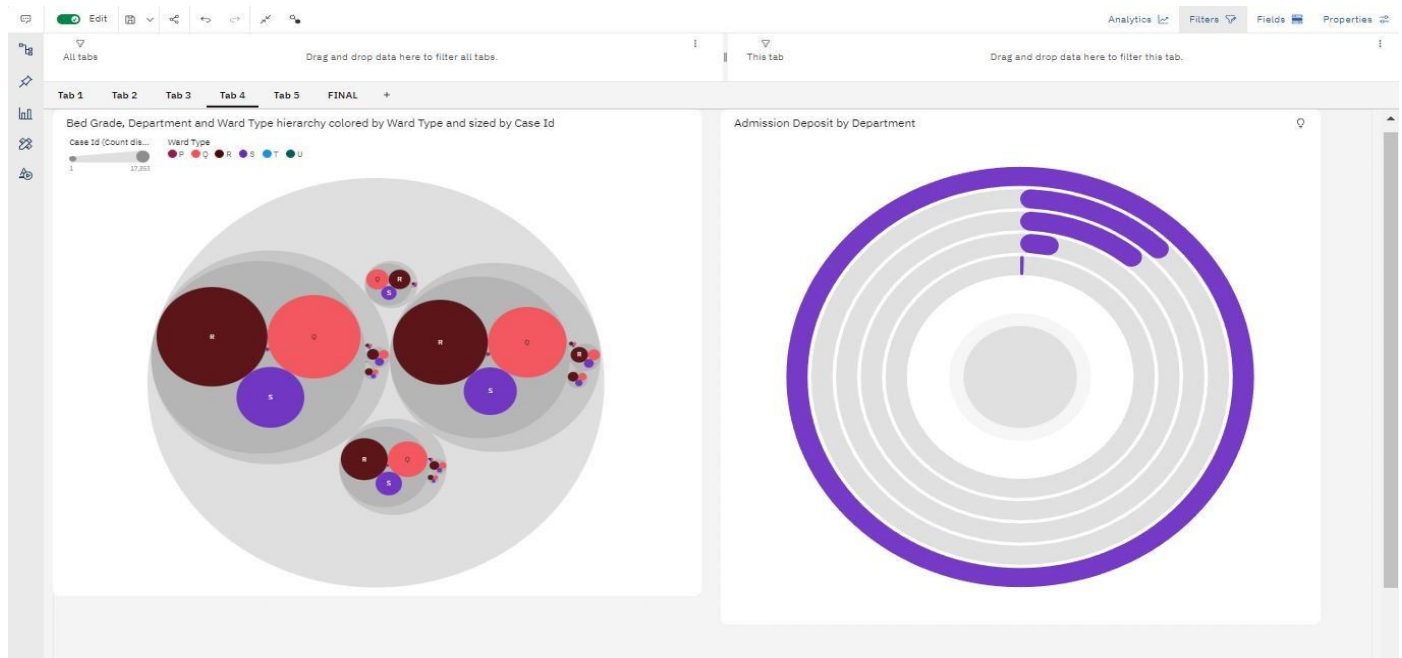


Hospital_code by patientid



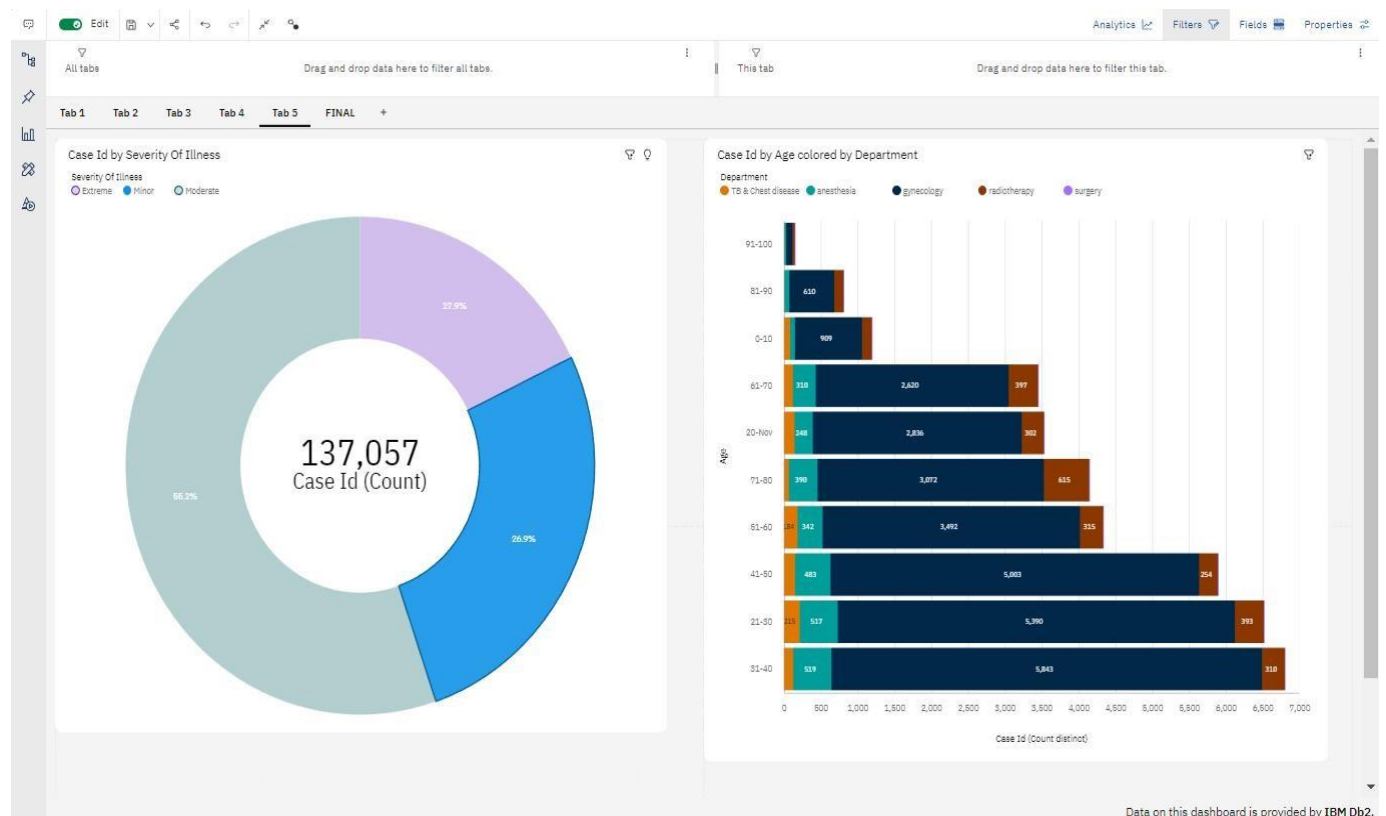
Dashboard with Hierarchy Bubble and Radial Visuals as follows:

Hierarchy Bubble to show case Bed Grade with Number of Cases by Department and Ward-wise. And Radial chart to show case Department wise Admission Deposit Amount.

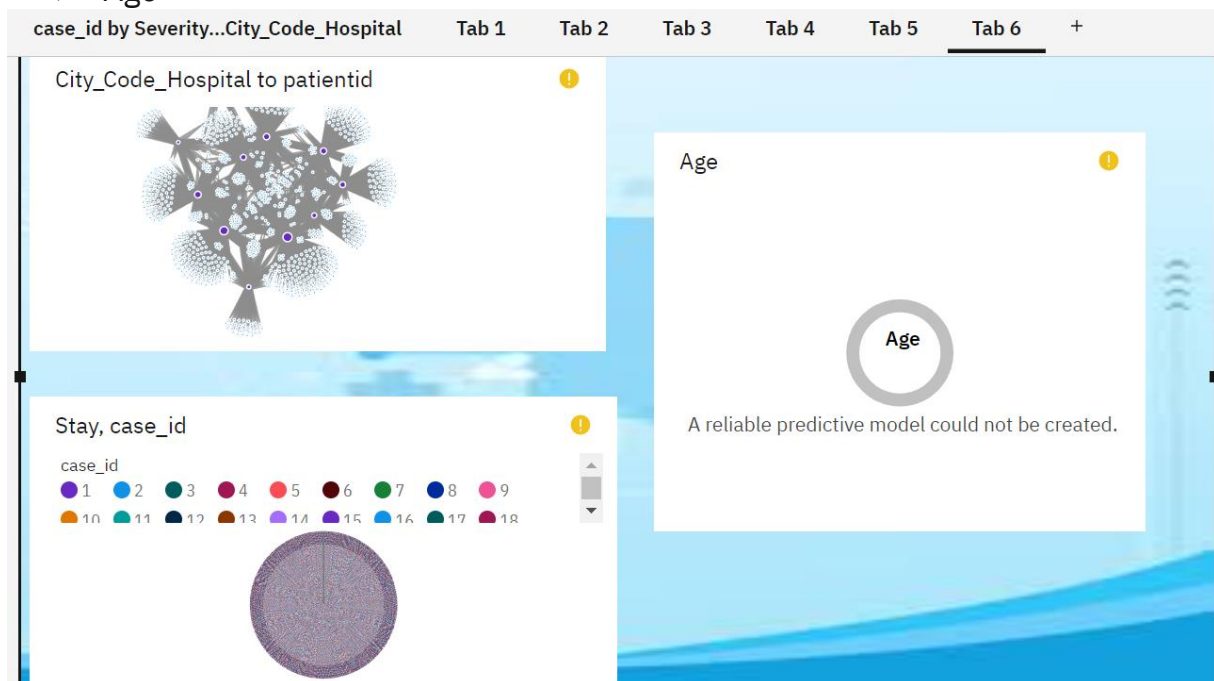


Dashboard to show case the following analytical visuals.

- Pie-Chart showing Severity of illness by number of cases.
- Stacked Bar Chart to visualize Department-wise, Age-wise number of cases.
- Waterfall chart visualizing the Department wise number of Patients.



- City_Code_Hospital to patientid
- Stay, case_id
- Age



Dashboard Link

https://eu1.ca.analytics.ibm.com/bi/?perspective=dashboard&pathRef=.my_folders%2FSprint%2B3%2B-%2BDashboard&action=view&mode=dashboard&subView=model000001846c5dab14_00000000