# Project Development Phase

## Project Development - Delivery of Sprint-2

| Date | 16 November 2022 |
|---|---|
| Team ID | PNT2022TMID41106 |
| Project Name | Project – Analytics for Hospitals' Health- Care Data |

# Task : Create Interactive Dashboard
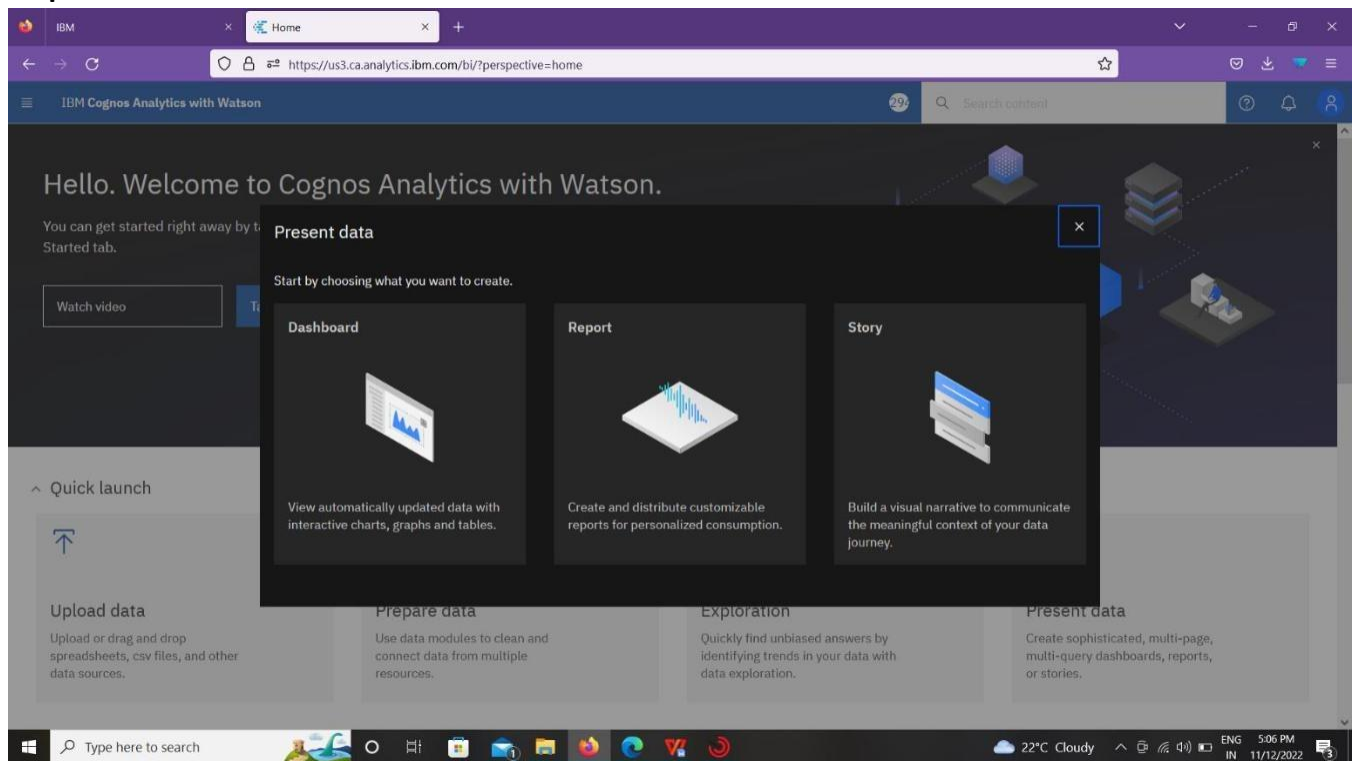
## Procedure to Create Dashboard

**Step1:** Login **IBM Cognos**

**Step2**: Click **Present Data** and Choose **Dashboard**



**Step3**: Choose your desired **Template** (Tab) and Create the **Dashboard**
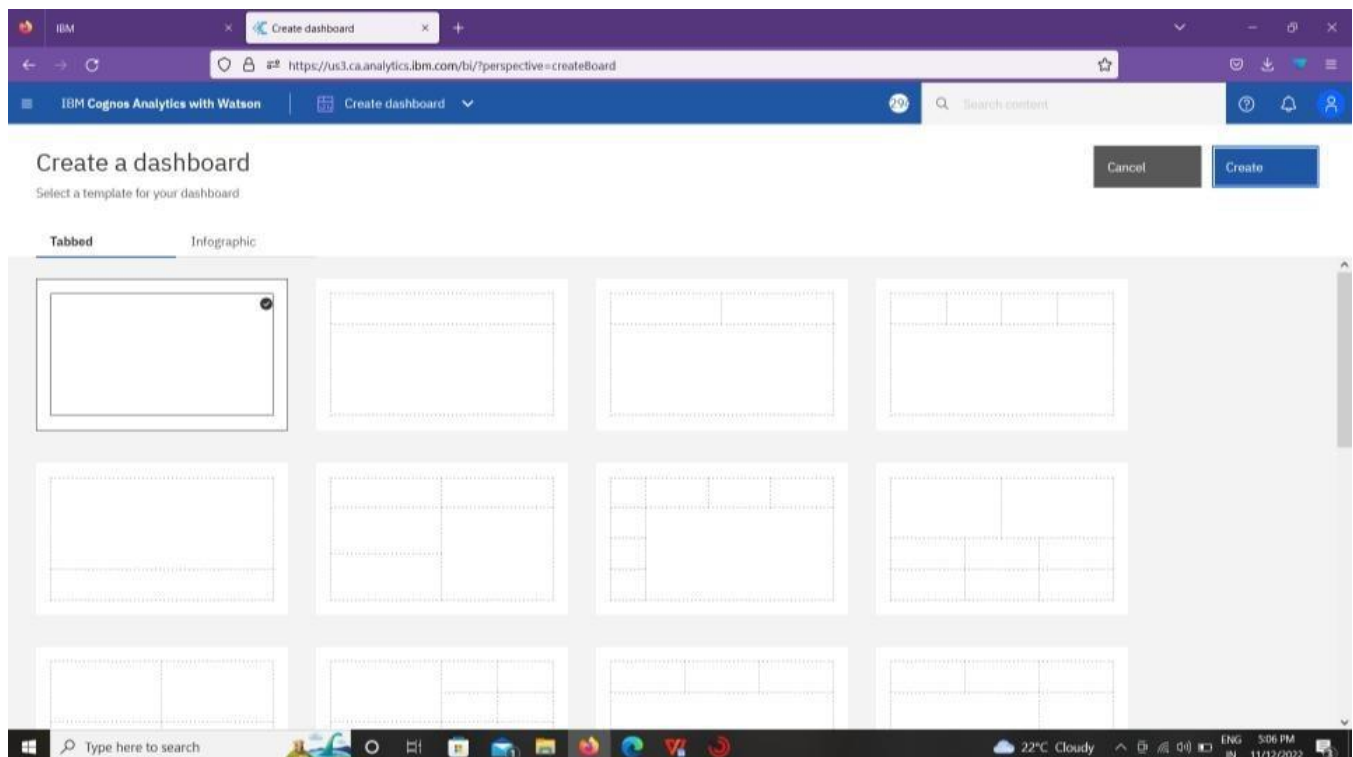
**Step4**: A New Dashboard Tab opens, then **Select a Source**



**Step5**: Select and **Add a Source** (Test_Data.csv)

**Step6**: Create a new Dashboard by adding multiple **Visualizations**
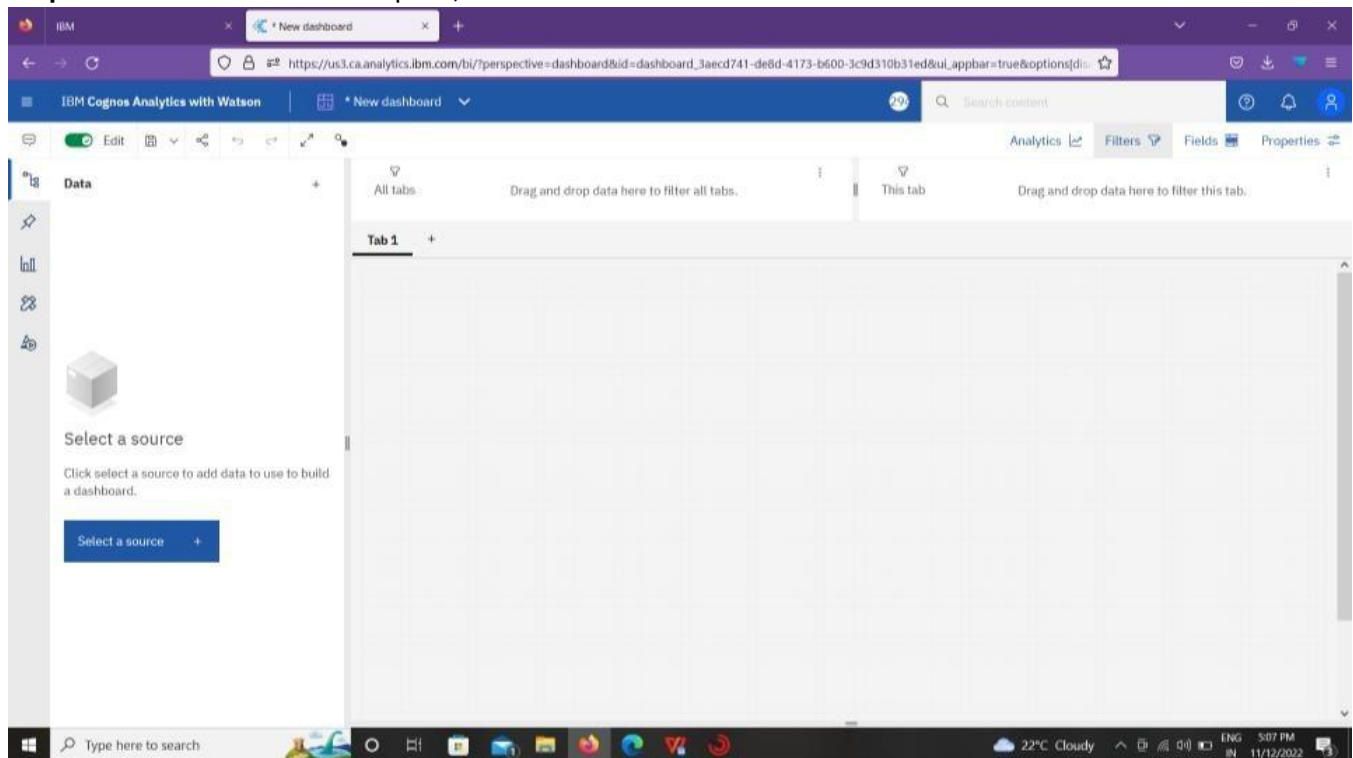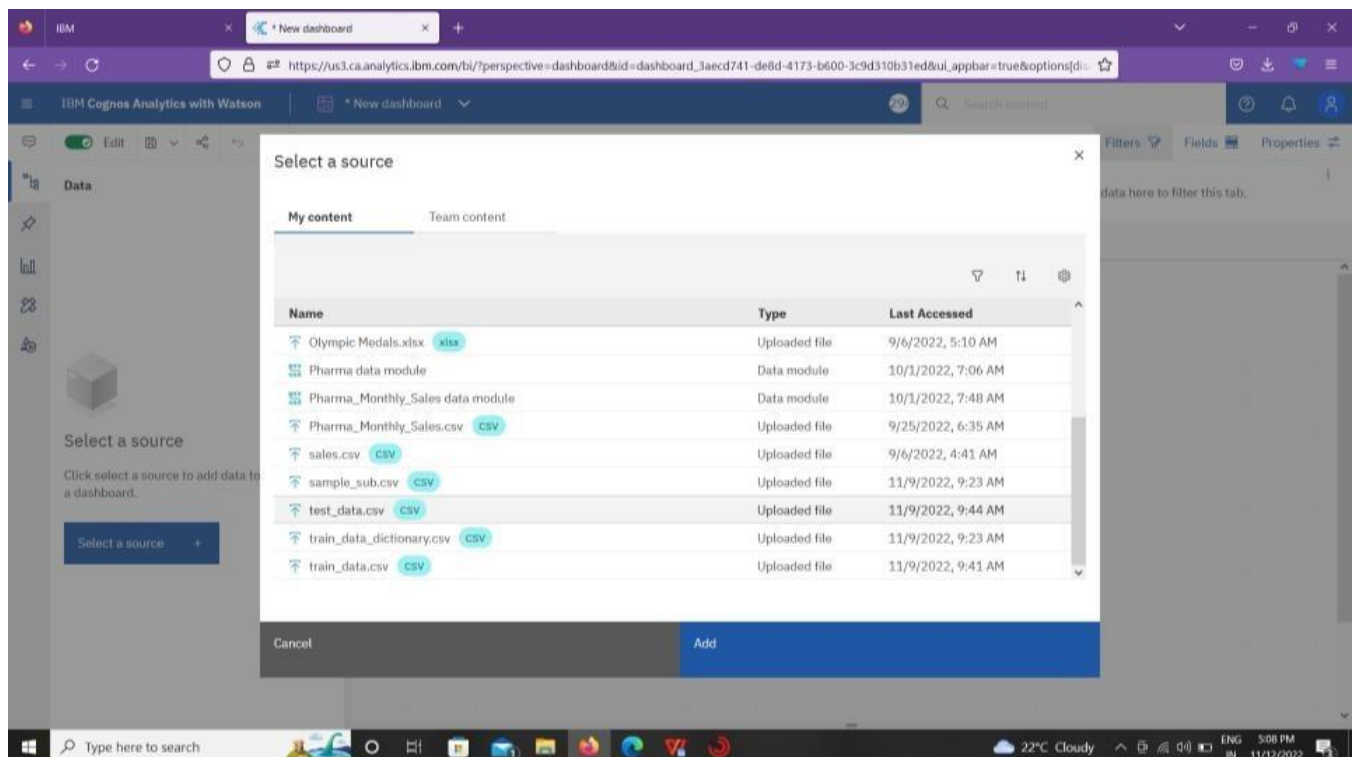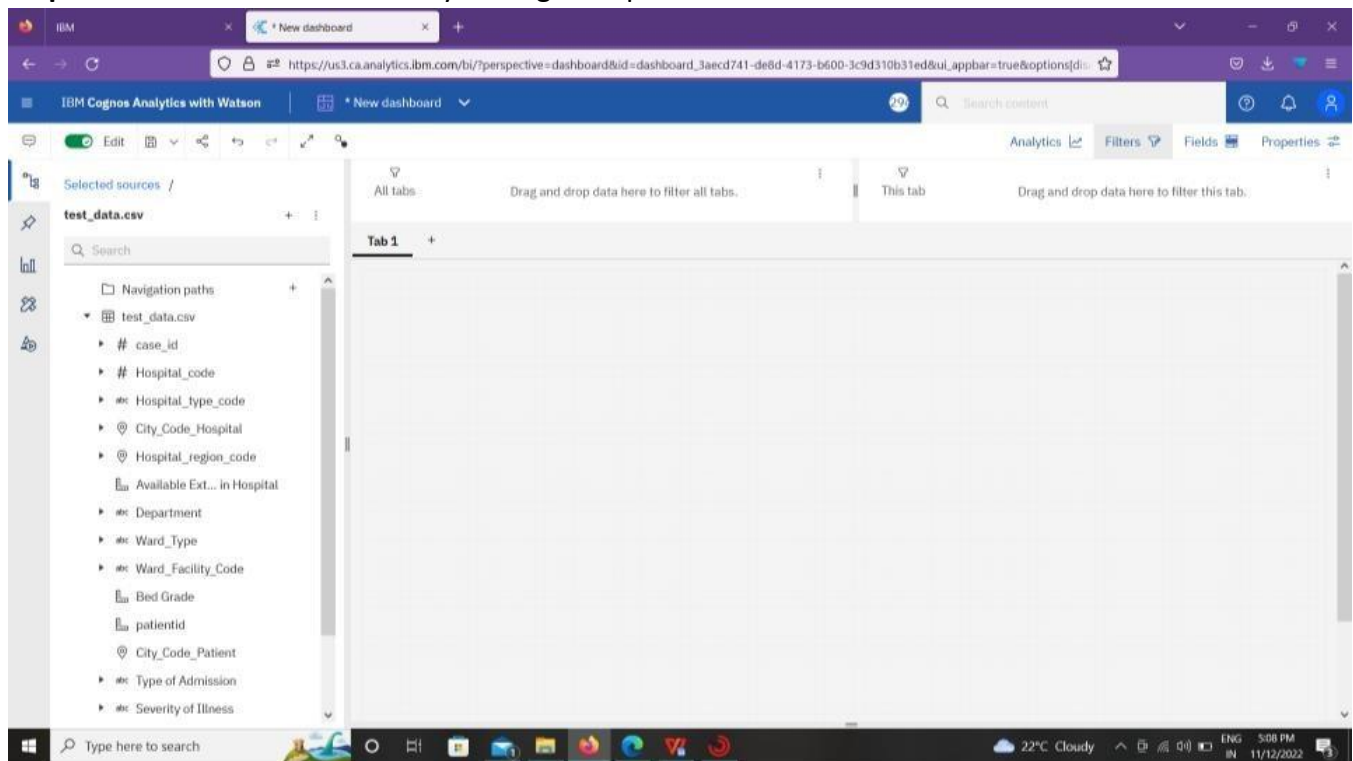
# Interactive Dashboard

## 1. Number of Patients by Ward Types

To build a dashboard with the following visual to present various analytics of Hospitals.

-Number of Patients by Ward Types



## 2. Dashboard to show number of Patients

To build a dashboard with the following visuals to present various analytics of Hospitals.

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

- a Pie-Chart show case the Number of Cases by Ward Facility type
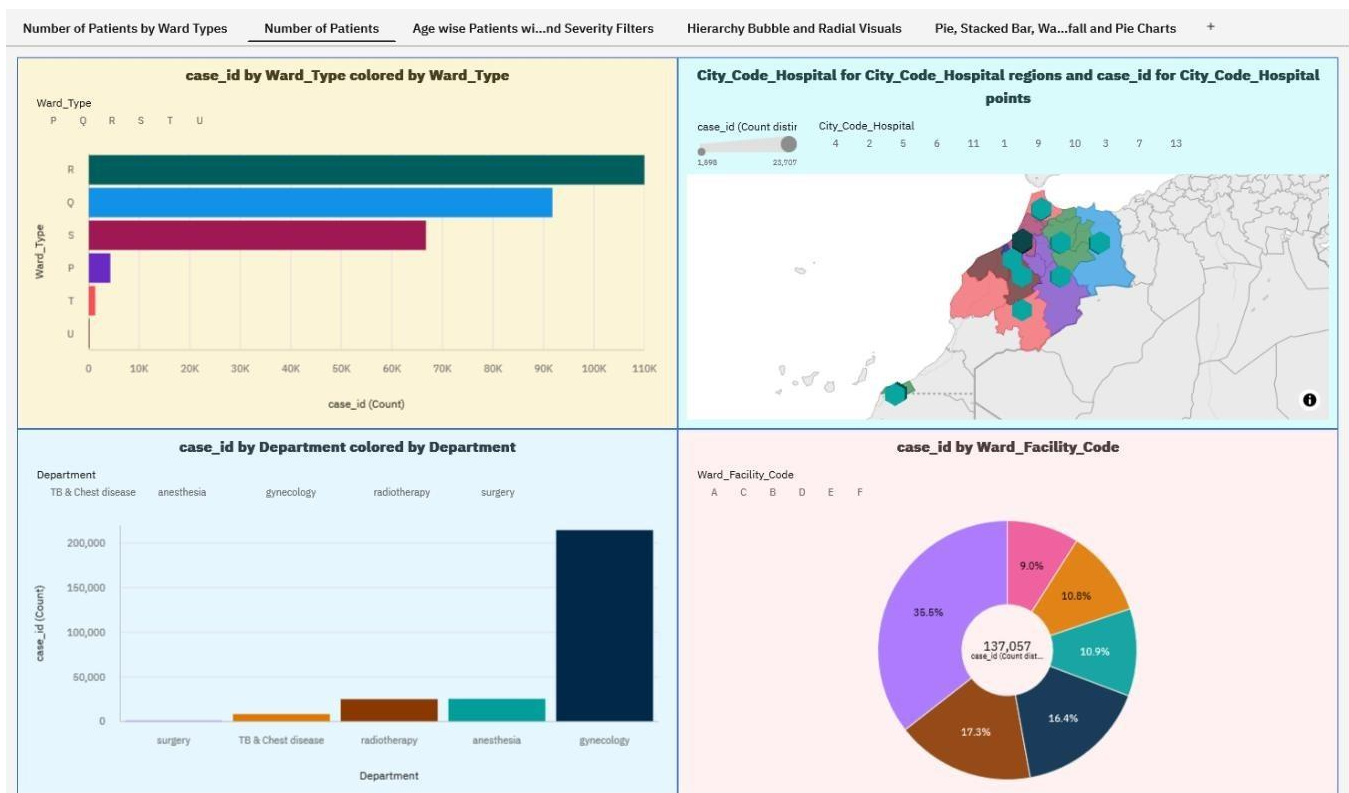


## 3. Age wise Patients with Department and Severity Filters

Build a column visual to show case Age wise Number of Patients with Department and Severity Filters.

## 4. Dashboard with Hierarchy Bubble and Radial Visuals

Create a 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.
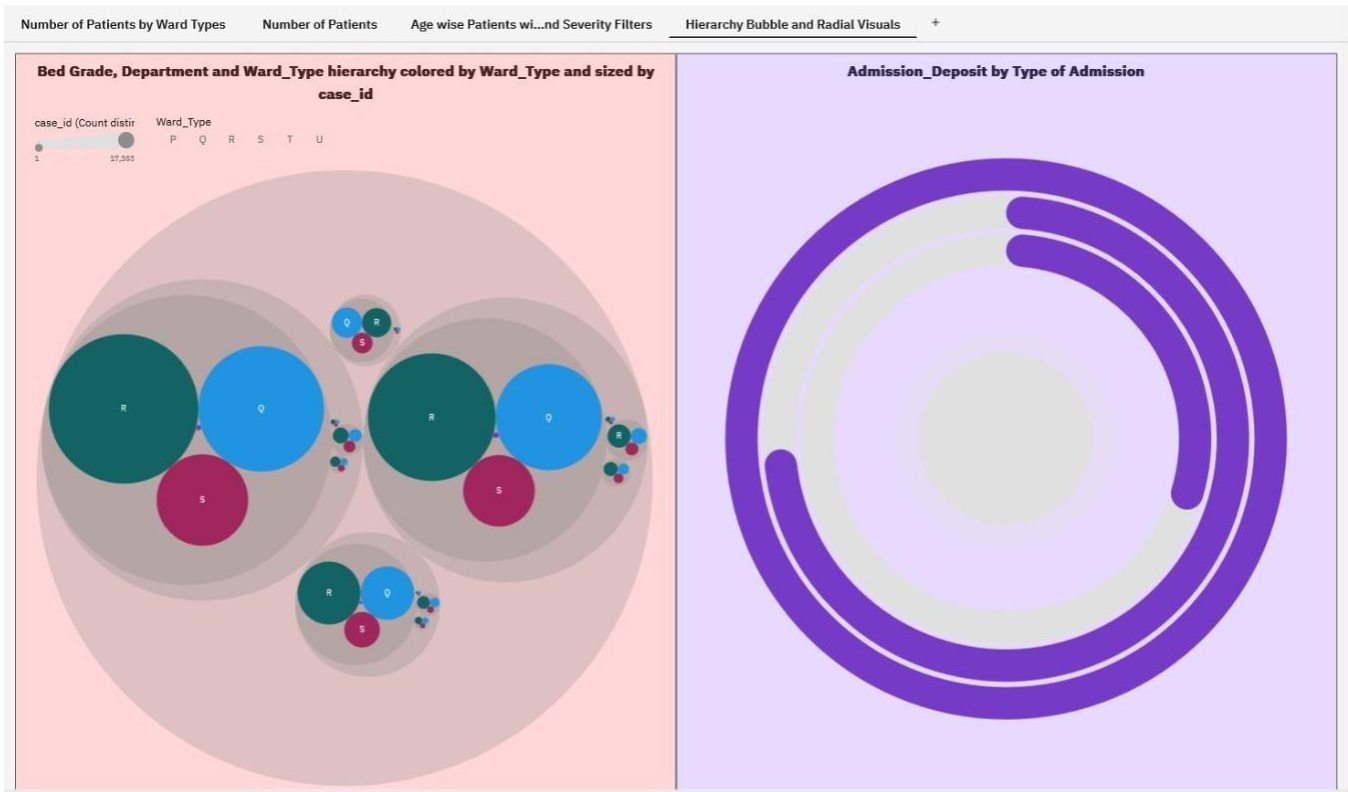-Radial chart to show case Department wise Admission Deposit Amount

### 5. Dashboard showing Pie, Stacked Bar, Waterfall and Pie Charts

Build a Dashboard to show case the following analytical visuals.

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

## case_id by Severity of Illness
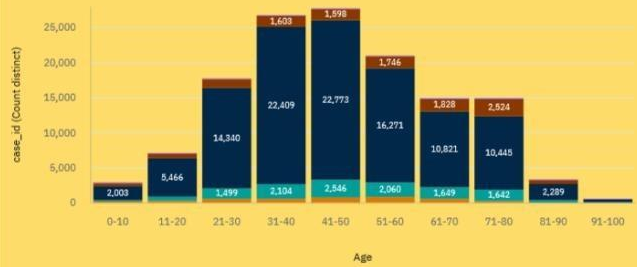
Severity of Illness
Extreme    Minor    Moderate

17.9%
55.2%
26.9%
137,057
case_id (Count disti...
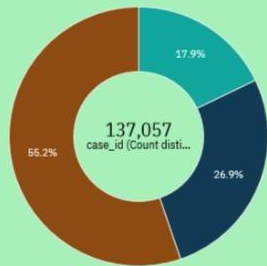
## case_id by Age colored by Department

Department
TB & Chest disease    anesthesia    gynecology    radiotherapy    surgery

case_id (Count distinct)

25,000
20,000
15,000
10,000
5,000
0

0-10  11-20  21-30  31-40  41-50  51-60  61-70  71-80  81-90  91-100
Age

2,003  5,466  1,499/14,340  1,603/2,104/22,409  1,598/2,546/22,773  1,746/2,060/16,271  1,828/1,649/10,821  2,524/1,642/10,445  2,289

## patientid for Department

Column values
Increase    Decrease    Sum

patientid (Count)

300K
250K
200K
150K
100K
50K
0

TB & Chest disease  anesthesia  gynecology  radiotherapy  surgery  Sum
Department
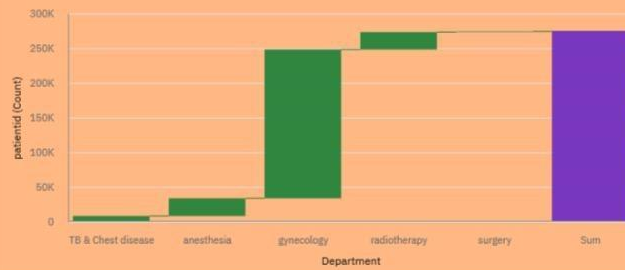
## case_id by Available Extra Rooms in Hospital

Available Extra Rooms in Hospital
21  13  12  0  11  10  9  8  7  1  6  5  3  4  2

42,584
39,482
39,235