

## 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

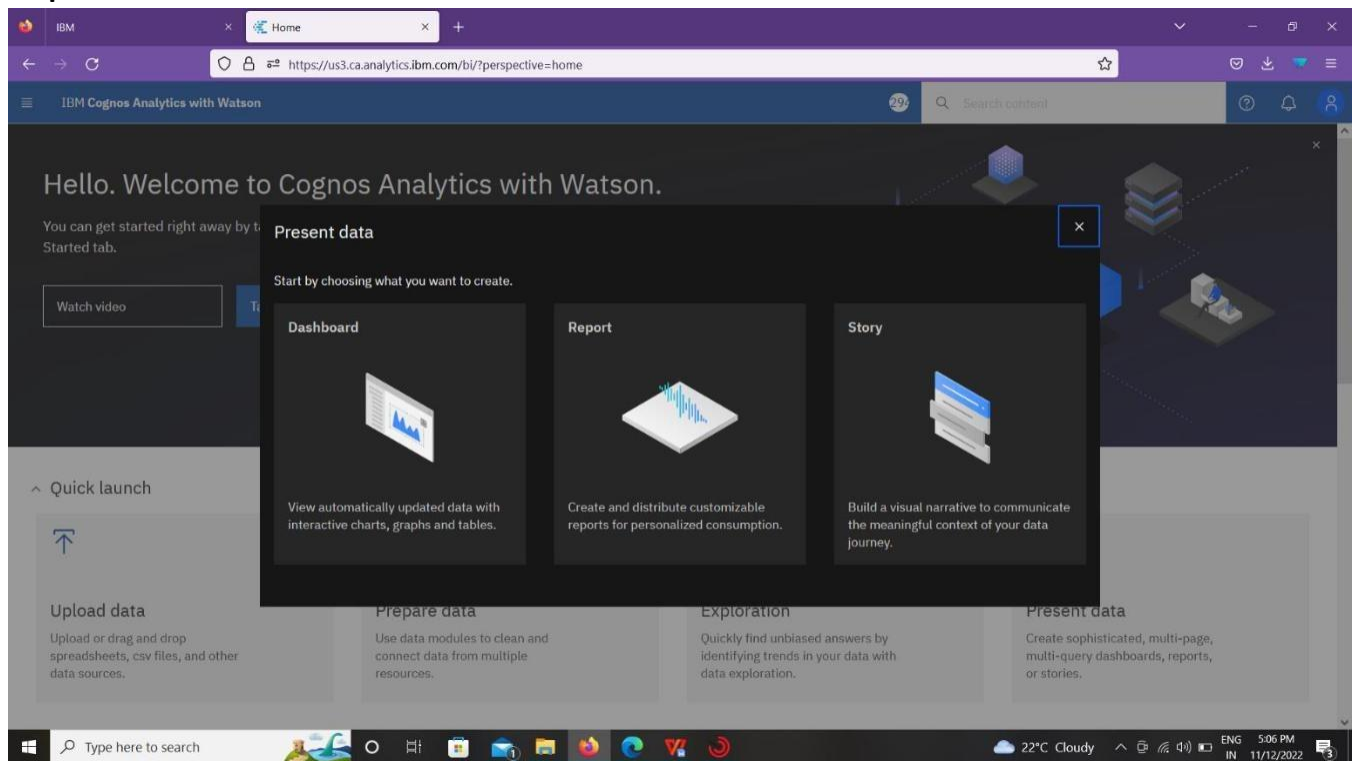
##### Step1: Login IBM Cognos

The screenshot shows the IBM Cognos Analytics with Watson home page. The browser address bar displays the URL: <https://us3.ca.analytics.ibm.com/bi/?perspective=home>. The page header includes the IBM logo, a search bar, and user profile icons. The main content area features a welcome message: "Hello. Welcome to Cognos Analytics with Watson." followed by a sub-message: "You can get started right away by taking a look at our introduction video, product tour and Getting Started tab." Below this are two buttons: "Watch video" and "Take a product tour". To the right is a large graphic of blue cubes connected by lines. Below the main content is a "Quick launch" section with four cards:

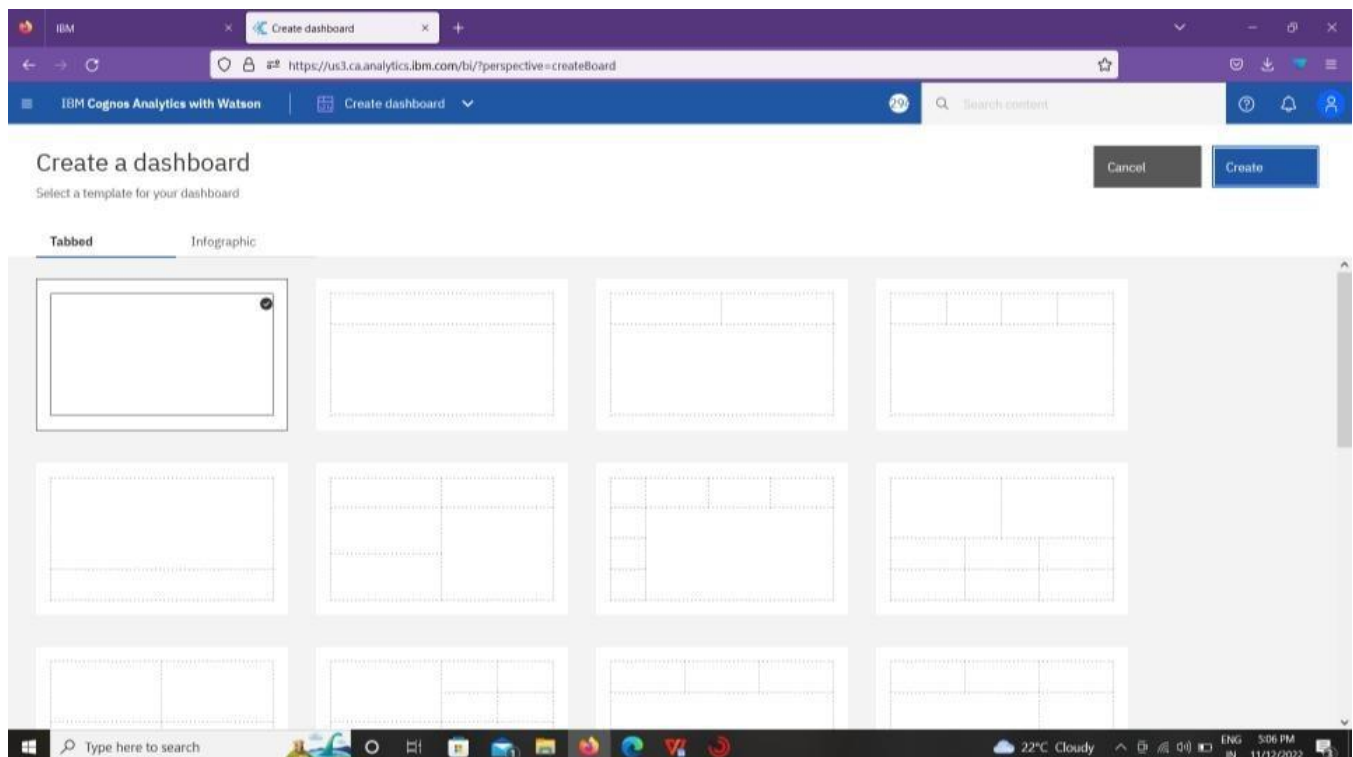
- Upload data**: Upload or drag and drop spreadsheets, csv files, and other data sources.
- Prepare data**: Use data modules to clean and connect data from multiple resources.
- Exploration**: Quickly find unbiased answers by identifying trends in your data with data exploration.
- Present data**: Create sophisticated, multi-page, multi-query dashboards, reports, or stories.

The Windows taskbar at the bottom shows the search bar, task view button, and several application icons. The system tray on the right indicates the date and time: 11/12/2022, 5:06 PM.

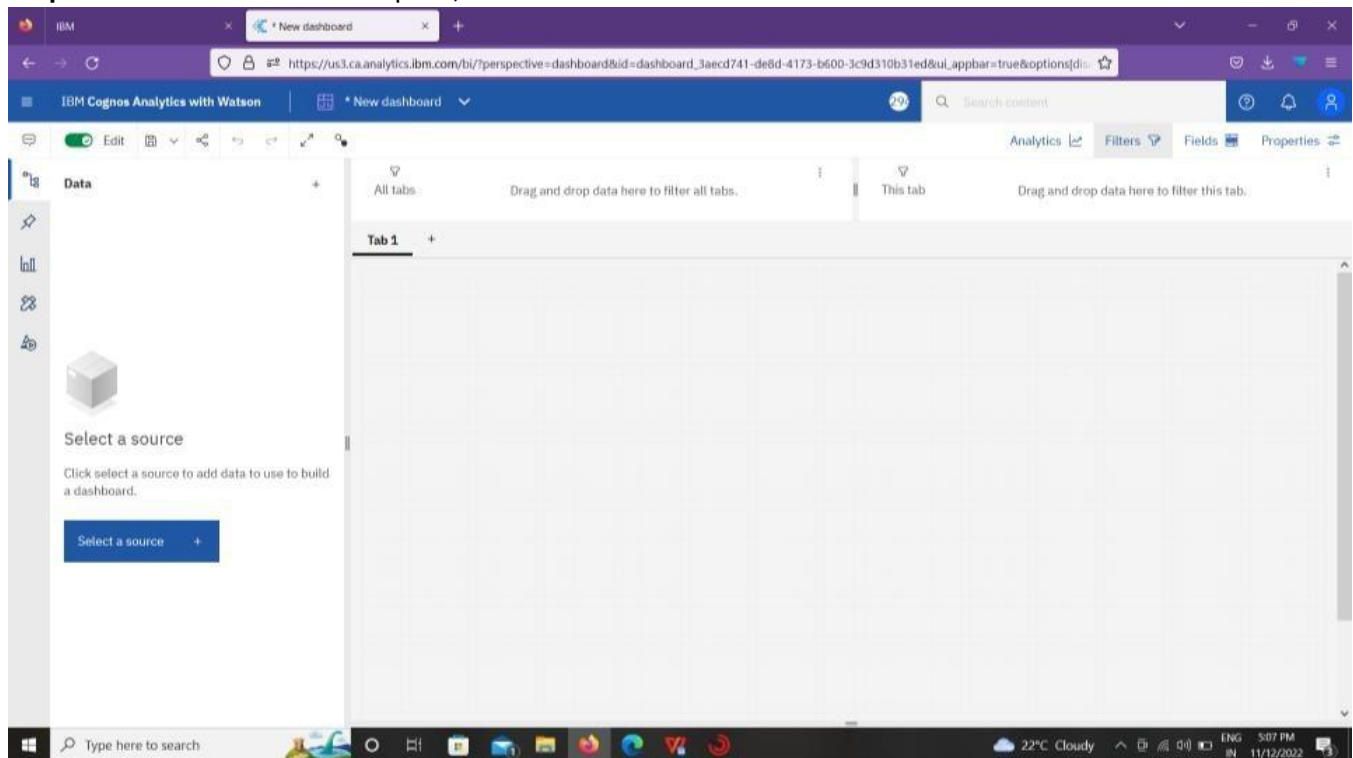
## Step2: Click **Present Data** and Choose **Dashboard**



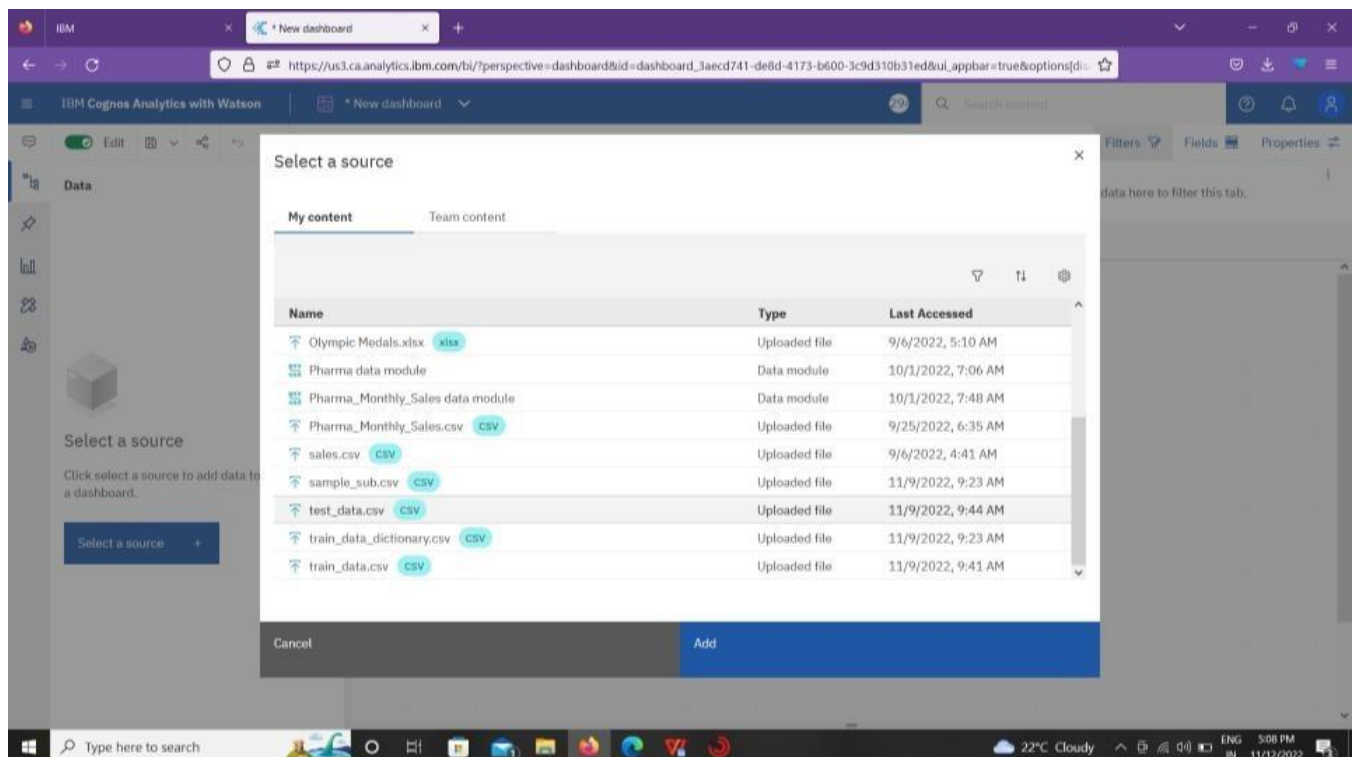
## Step3: Choose your desired **Template** (Tab) and Create the **Dashboard**



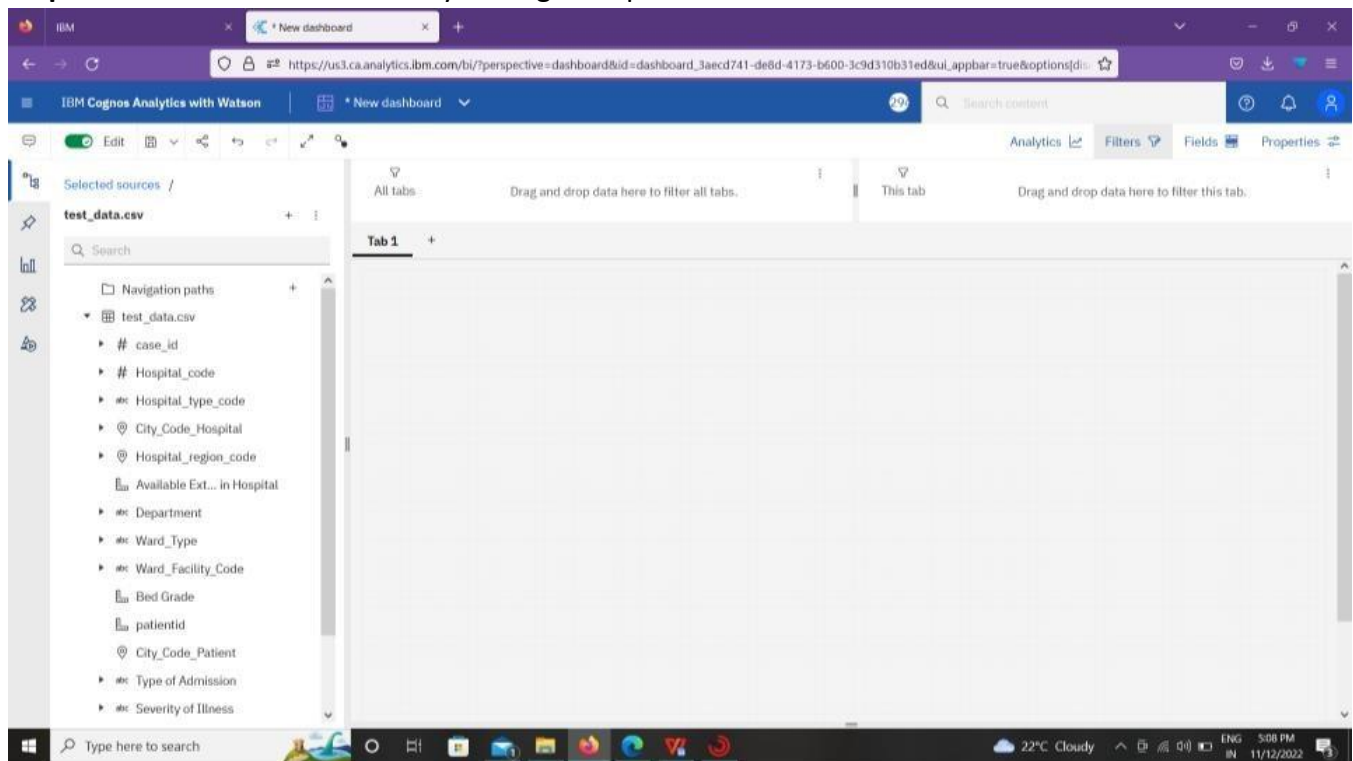
#### Step4: A New Dashboard Tab opens, then **Select a Source**



#### 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

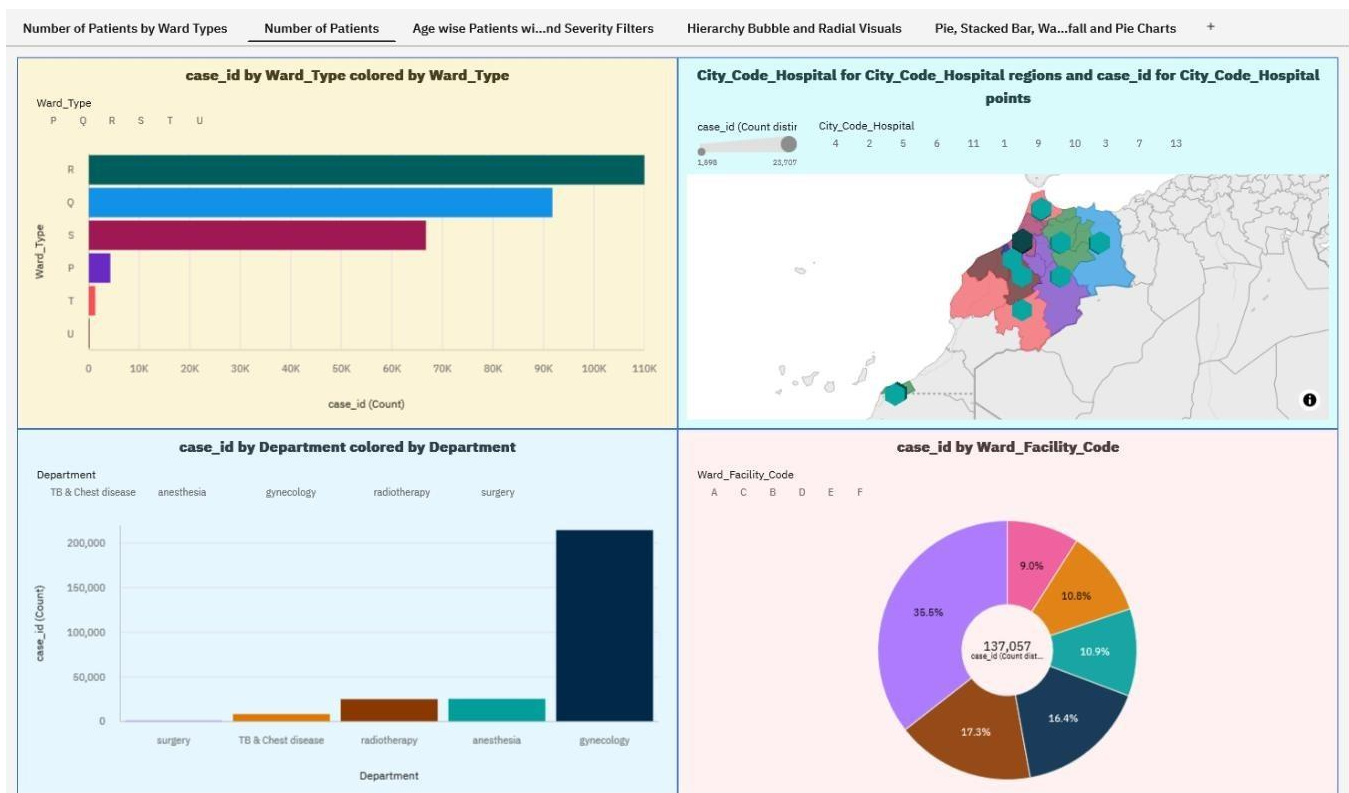


## 2. Dashboard to show number of Patients

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

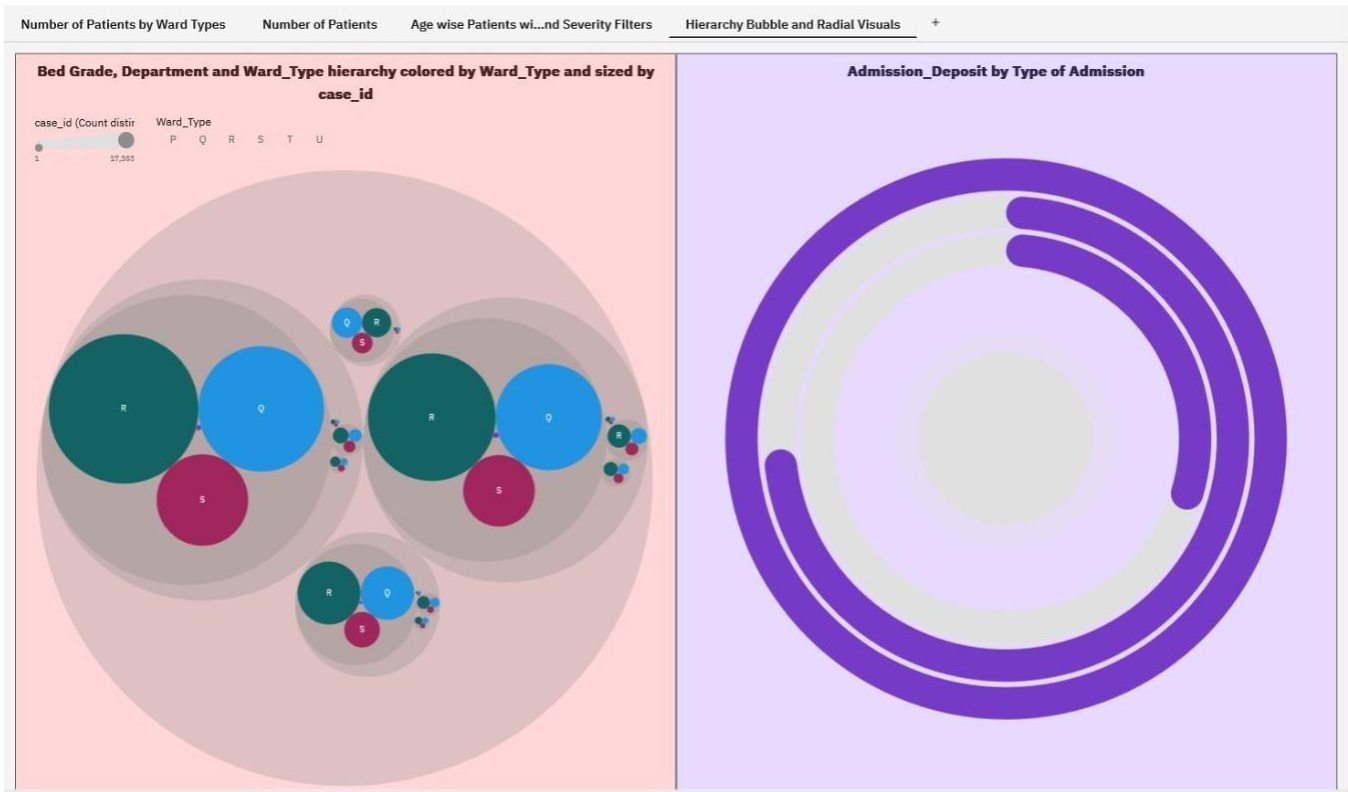
Build a column visual to show case Age wise Number of Patients with Department and Severity Filters.



#### 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.

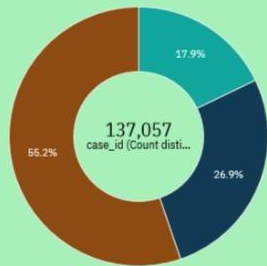
- a Pie-Chart showing Severity of illness by number of cases.
- a Stacked Bar Chart to visualize Department-wise, Age-wise number of cases.
- a Waterfall chart visualizing the Department wise number of Patients.
- a Pie-Chart showing the Availability of Extra rooms with Analytics.



case\_id by Severity of Illness

Severity of Illness

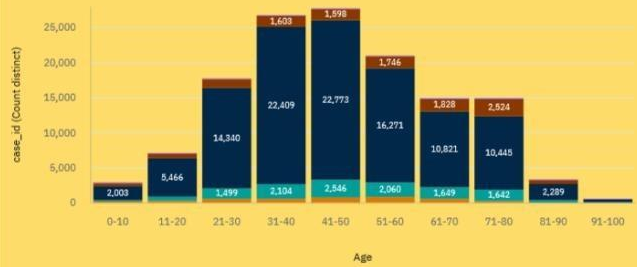
Extreme Minor Moderate



case\_id by Age colored by Department

Department

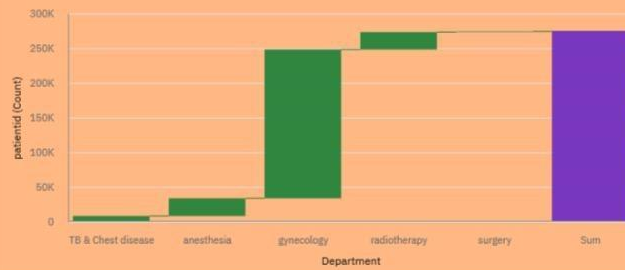
TB &amp; Chest disease anesthesia gynecology radiotherapy surgery



patientid for Department

Column values

Increase Decrease Sum



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

