PROJECT DEVELOPMENT PHASE SPRINT DELIVERY -1

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

Sprint 1	Sprint2
Collection of Data	Exploration of Dataset
Loading the data	Visualization of Dataset
Data Preparation and Visualization	
Sprint3	Sprint4
Dashboard Creation	Monitoring the Model/System
Prediction of Length of Stay	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 Delivery1:

Collection of Data:

Hospital Dataset Link:

https://drive.google.com/drive/folders/lqozDgfVw04hGS8Di_SFhUNdUKUdjkhrT?usp=sharing

UNDERSTANDING THE DATASET:

This project is based on understanding the Hospital's Health Analytics dataset.

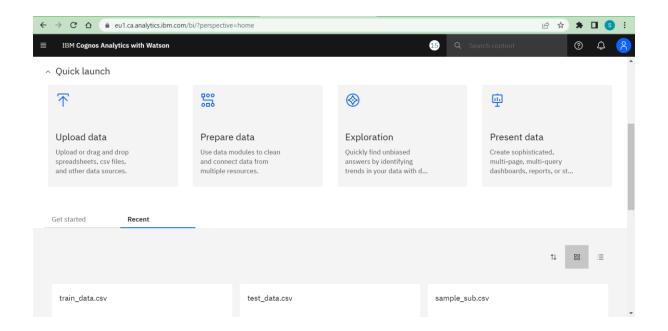
The data is spread across 3 data files (csv) and one data dictionary enclosed.

- 1.Test data.csv
- 2.Sample sub.csv
- 3.Train_data_dictionary.csv
- 4.Train data.csv

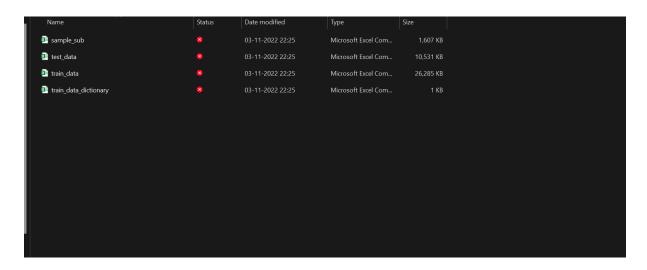
The primary data file we use is test data.csv consist of 17 Columns with 137057 Rows.

Loading the Data to IBM COGNOS ANALYTICS:

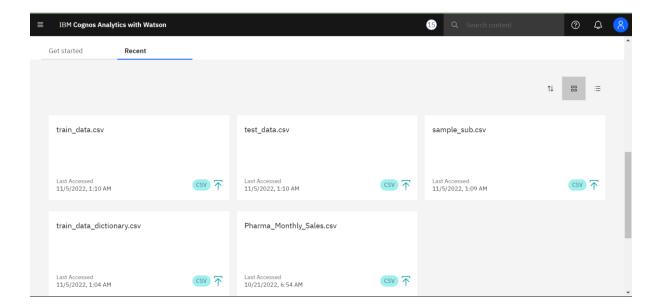
Log in to your IBM Account and click on Upload Data



Select the Data to be uploaded from the Local System

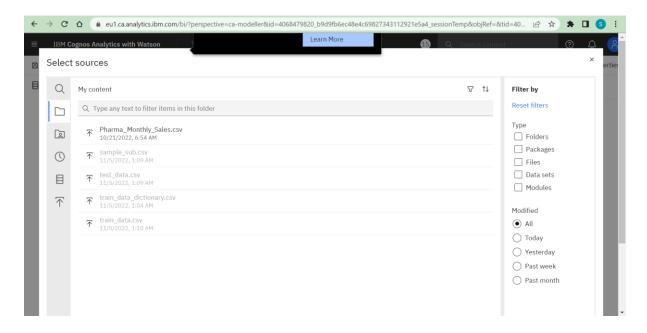


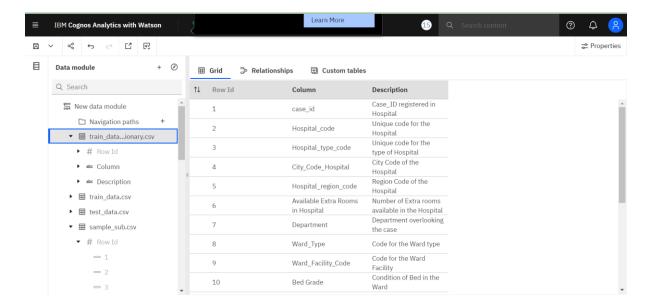
Then under Recent Tabs, The data will get uploaded



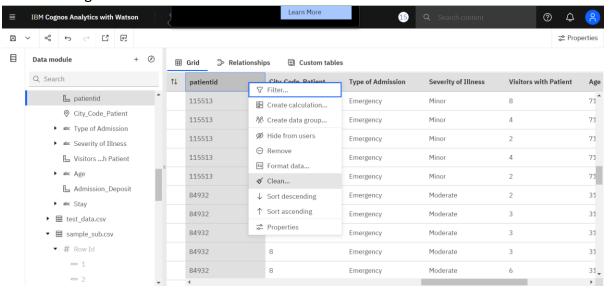
Data Preparation:

Select the sources/Files to be Prepared:

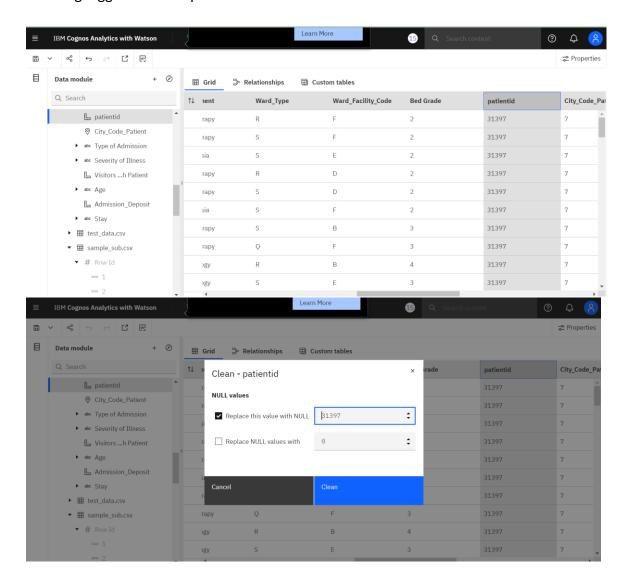




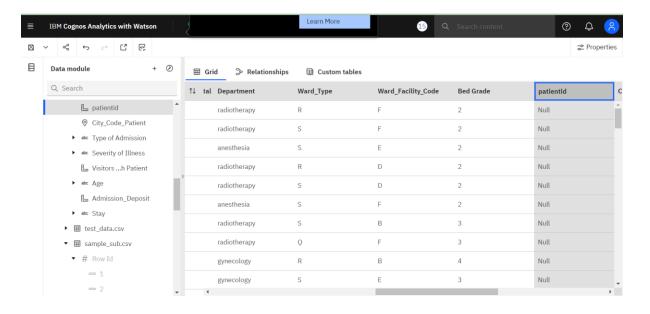
Data Cleaning:



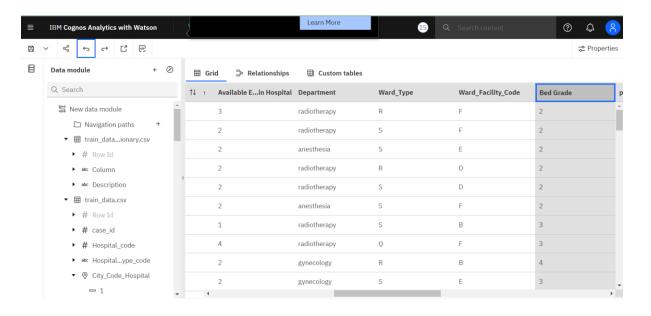
Cleaning bigger values in patient ID column:



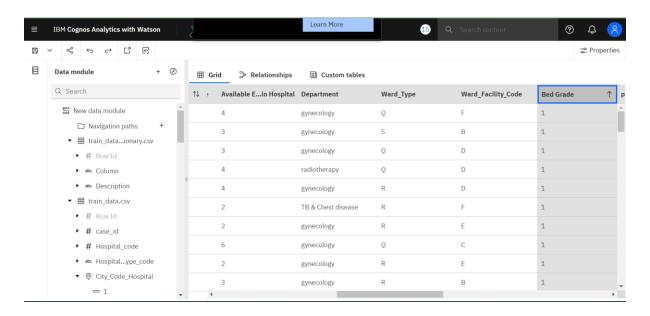
Data after cleaning:

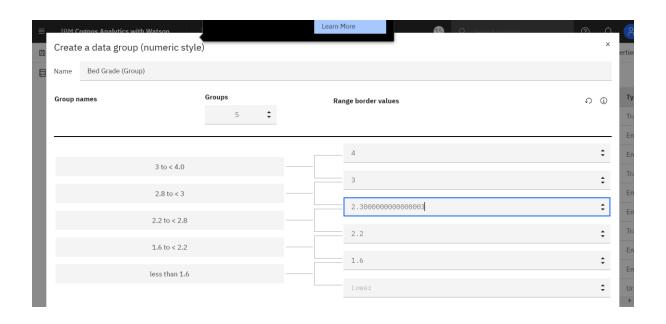


Sort the Bed grade Column:

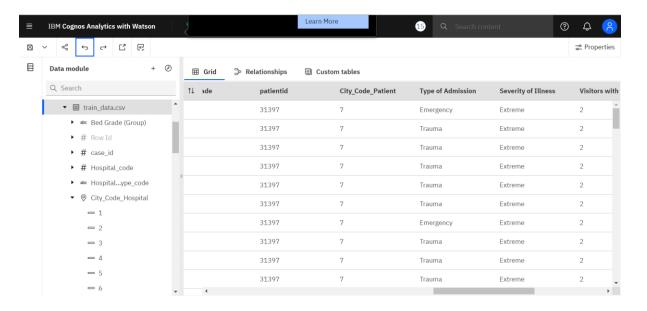


After Sorting in Ascending Order:

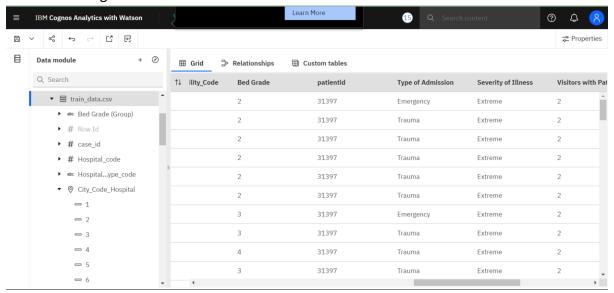




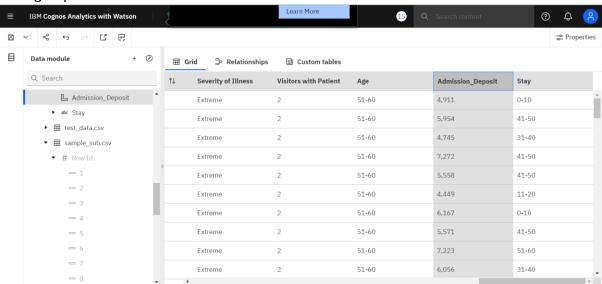
Removing City_Code_Patient column as it contains some duplicate values



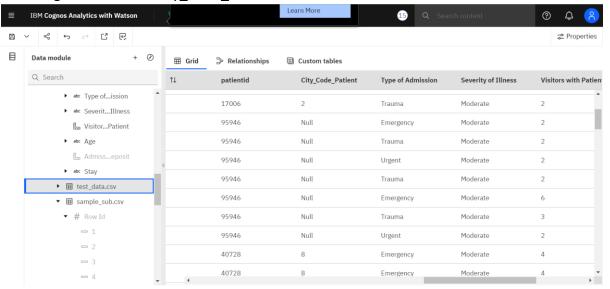
After Removing



Hiding Deposit amount from users

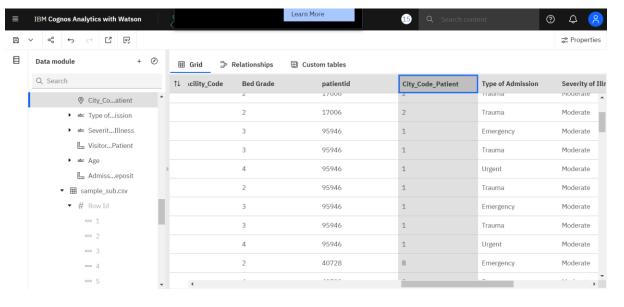


Remiving Null values in City_Code_Patient

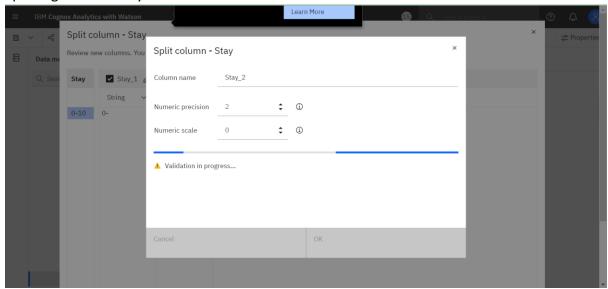


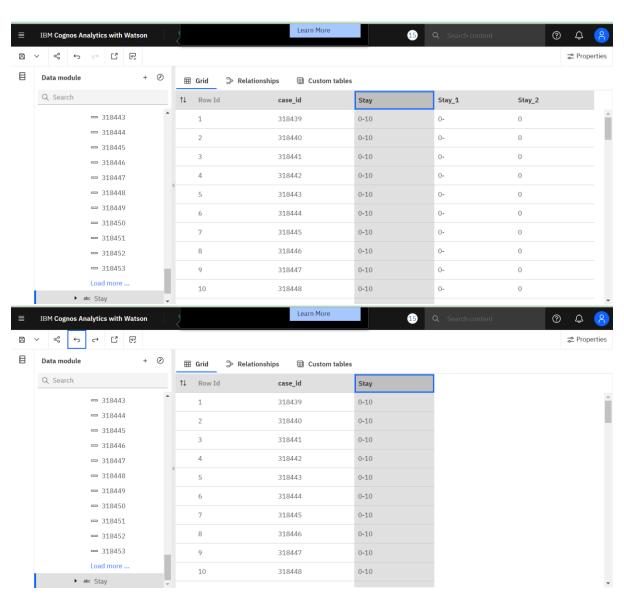
Replacing null values with constant 1



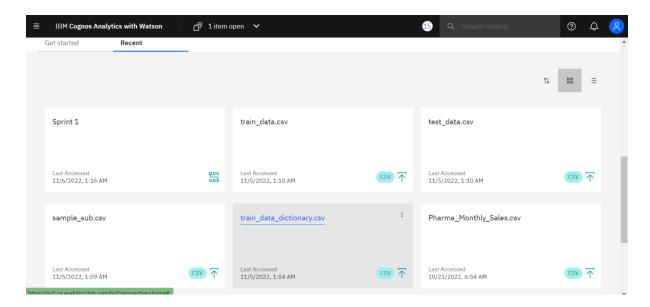


Splitting Column Stay





Prepared Data(SPRINT 1):



Prepared Dataset Link:

https://eu1.ca.analytics.ibm.com/bi/?perspective=camodeller&pathRef=.my_folders%2FSprint%2B1