### **SPRINT 2**

Date	07-11-2022	
Team ID	PNT2022TMID04305	
Project Title	Analytics for Hospitals' Health-Care Data	
Team Members	Abishankari S , Aravindh T, Dhivya A , Dhivya S	

# **Data Cleaning and Preparation**

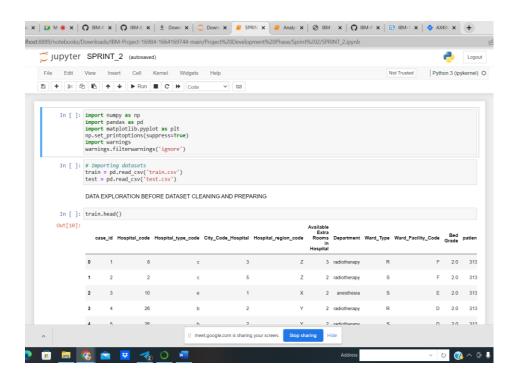
In this data set, variables "City\_code\_patient" and "Bed Grade" have missing values. These missing values must be treated before feeding to the algorithm as they distort the model performance.

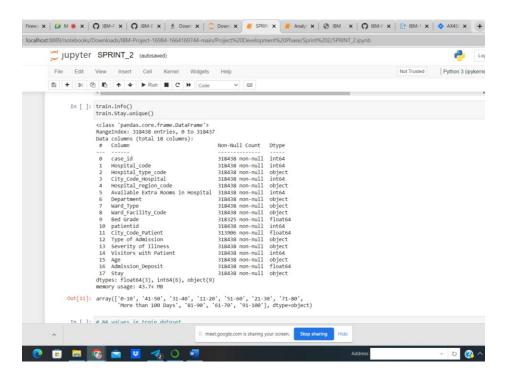
So, the missing values are replaced using the "mode" of the column. Since most of the variables in the dataset have ordinal data, we transformed them into levels by using a label encoder to perform further analysis on the data.

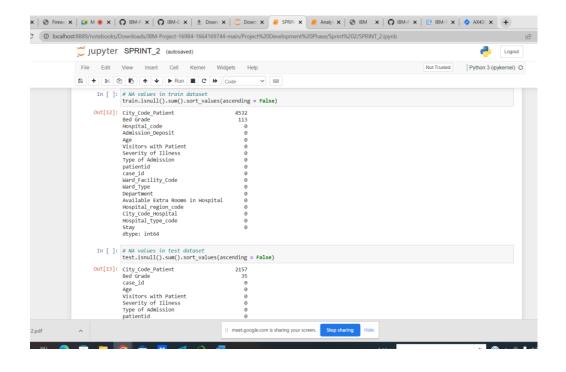
#### **Distinct Observations of Ordinal Data**

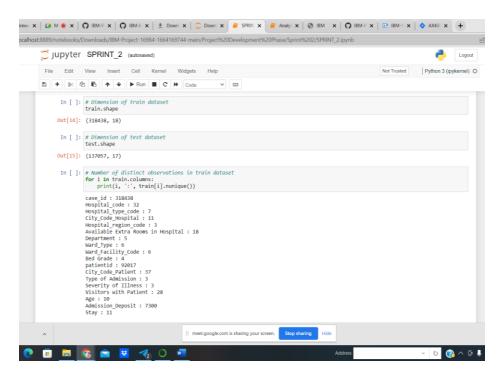
Variables	Number of distinct observations
Hospital_type_code	7
Hospital_region_code	3
Department	5
Ward_Type	6
Ward_Facility_Code	6
Type of Admission	3
Severity of Illness	3
Age	10
Stay	11

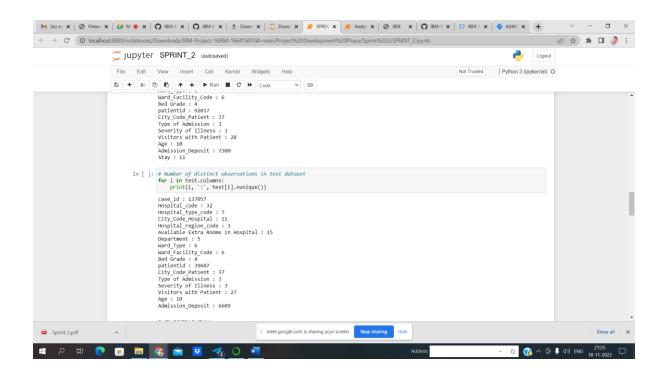
## Data Exploration in python





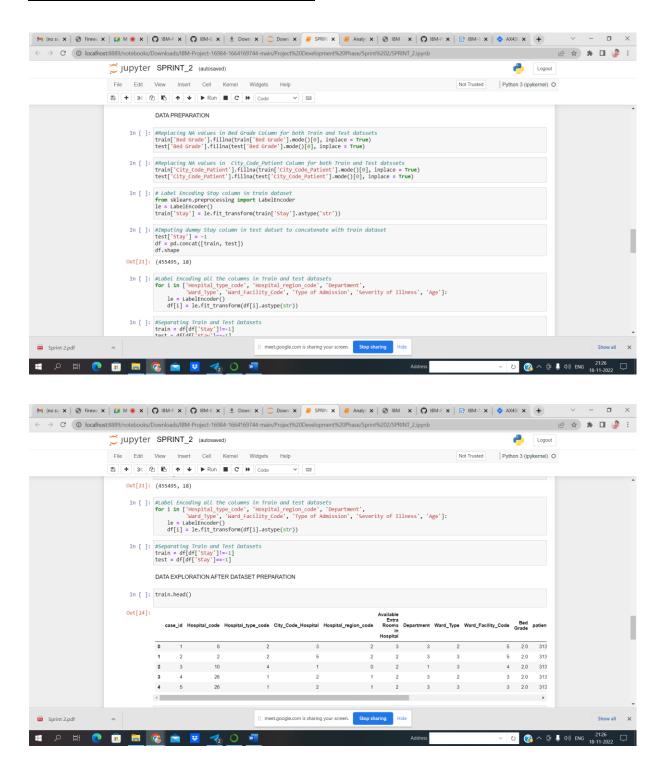


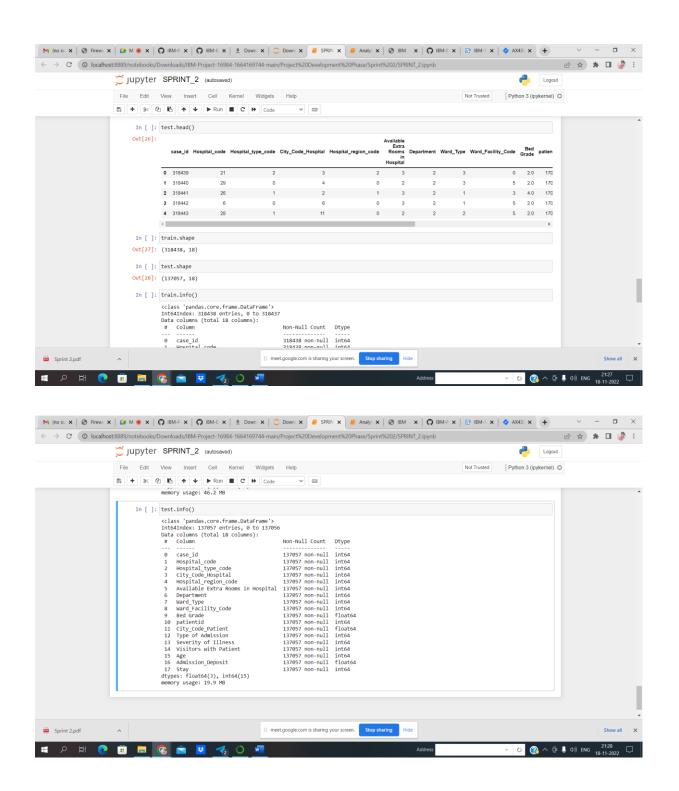




### **DATA PREPARATION**

# Data exploration after preparing:







<u>S</u> 1	print 2 completed successfully
u	Uploaded ipynb file in the sprint 2 folder in github."