Project DevelopmentPhase Delivery of Sprint-1

Date	02 NOV 2022
Team ID	PNT2022TMID23557
Project Name	Analytics for Hospitals' Health-Care Data

PROJECT DEVELOPMENT PHASE

SPRINT1

Data collection

Data preparation

SPRINT2

Data Exploration

SPRINT3

Dashboard creation

SPRINT4

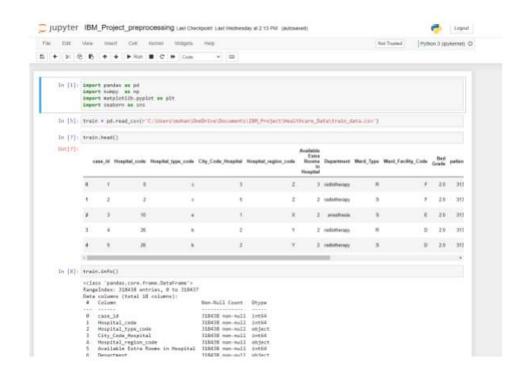
Report creation

Story creation

SPRINT 1

Data Preprocessing:

USING JUPYTER NOTEBOOK TO REMOVE THE NULL VALUES:

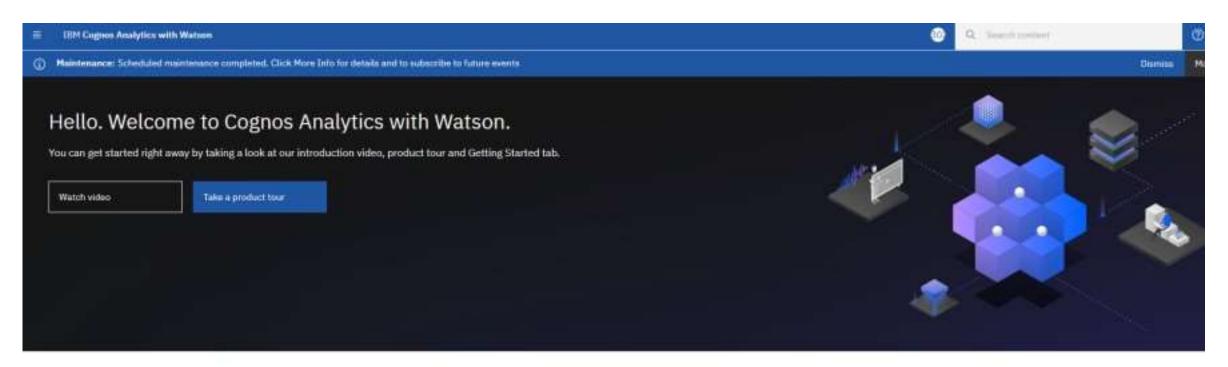




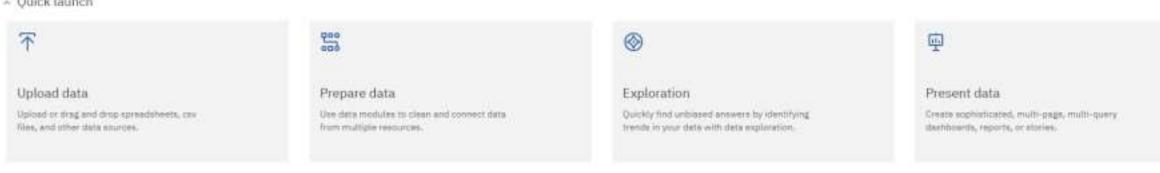
```
In [17]: train.isnull().sum()
Out[17]: case_1d
Hospital_code
          Hospital_type_code
City_Code_Hospital
Hospital_region_code
Available Extra Rooms in Hospital
           Department
           Ward_Type
           Ward_Facility_Code
           Bed Grade
           patientid
           City_Code_Patient
Type of Admission
           Severity of Illness
Visitors with Patient
           Admission_Deposit
           Stay
           dtype: int64
In [IN]: train = train.to_csv('final_train_data.csv', index=False)
In [19]: test = pd.read_csv(r'C:\Users\mohan\OneDrive\Documents\IBM_Project\Healthcare_Data\test_data.csv')
In [20]: test.head()
Out[20]:
                                                                                              Available
Extra
Rooms Department Ward_Type Ward_Facility_Code Grade patien
               case_id Hospital_code Hospital_type_code City_Code_Hospital Hospital_region_code
                                                                                                Hospital
            0 318439
                                 21
                                                                                                    3 gynecology
                                                                                                                                               A 2.0 170
            1 318440
                                 29
                                                                                                                                               F 2.0 170
                                                                                                     2 gynecology
```

```
Stay
dtype: int64
In [11]: train['Bed Grade'].value_counts()
Out[11]: 2.0 123671
3.0 110583
4.0 57566
1.0 26505
        Name: Bed Grade, dtype: int64
In [12]: train['Bed Grade'].unique()
Out[12]: array([ 2., 3., 4., 1., nan])
In [13]: train.shape
Out[13]: (318438, 18)
In [14]: train.dropna(inplace=True)
In [15]: train.shape
Out[15]: (313793, 18)
In [16]: train.head()
           Case_id Hospital_code Hospital_type_code City_Code_Hospital Hospital_region_code Rooms Department Ward_Type Ward_Facility_Code Grade patien
Out[16]:
                                                                            2 3 radiotherapy
                                                                                                                       F 2.0 312
         1 2
                                                                                    2 radiotherapy
                                                                                                                       F 2.0 313
                                                                                                                       E 2.0 313
         3 4
                           26
                                           b
                                                           2
                                                                                                                       D 2.0 313
                                                                                    2 radiotherapy
```

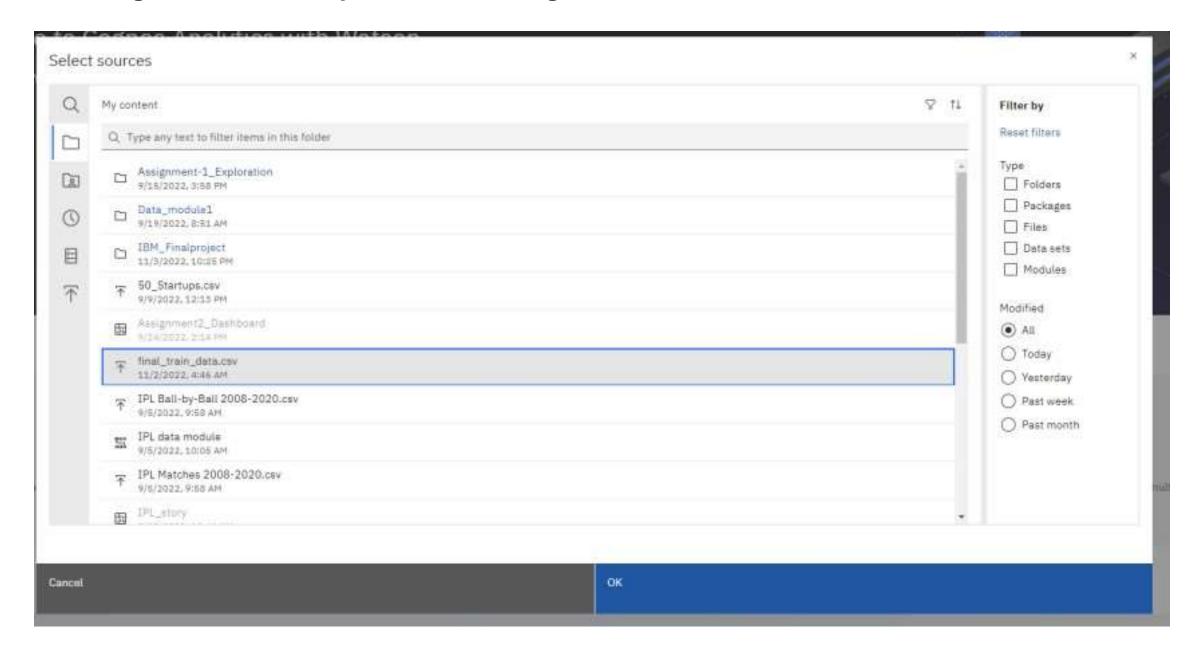
Signing in to the IBM Cognos tool:



« Quick launch



Selecting the dataset to upload into the Cognos:



Uploading the dataset to perform the preparation and visualization

