Project Development Phase Delivery of Sprint-1

Date	02 NOV 2022
Team ID	PNT2022TMID01342
Project Name	Analytics for Hospitals' Health-Care Data

Project Development Phase:

Sprint-1:

- ➤ Data Collection
- ➤ Data Preparation

Sprint-2:

➤ Data Exploration

Sprint-3:

> Dashboard Creation

Sprint-4:

- ➤ Report Creation
- ➤ Story Creation

Contributors:

R.Adithya

K.Charan

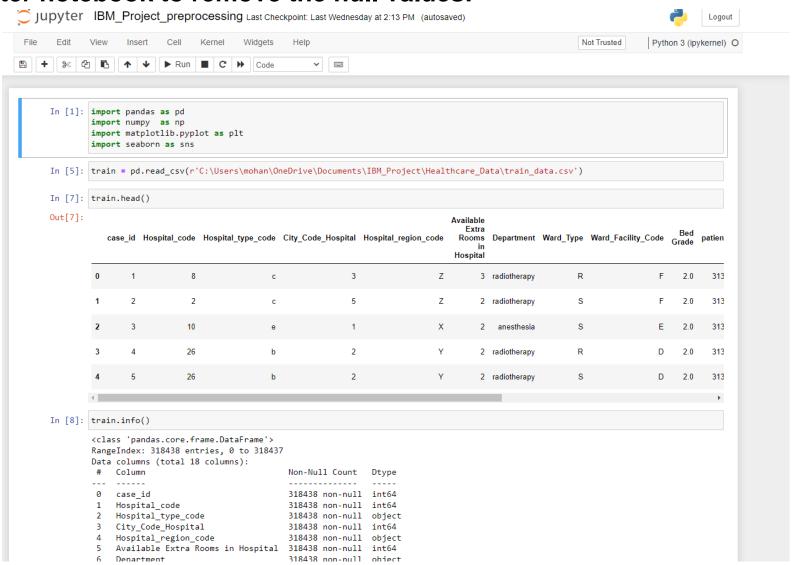
C.Lingeshwaran

V.Mohanraj

SPRINT-1

Data Preprocessing:

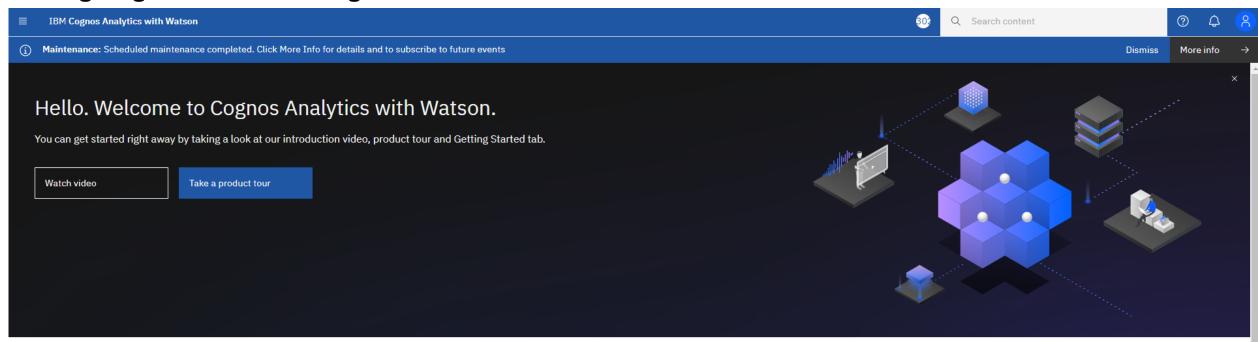
Using Jupyter notebook to remove the null values:



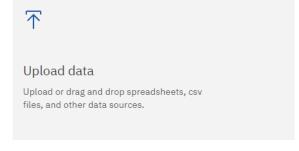
```
In [17]: train.isnull().sum()
Out[17]: case id
         Hospital_code
         Hospital_type_code
         City_Code_Hospital
         Hospital_region_code
         Available Extra Rooms in Hospital
         Department
         Ward Type
         Ward_Facility_Code
         Bed Grade
          patientid
         City_Code_Patient
         Type of Admission
         Severity of Illness
         Visitors with Patient
          Age
         Admission_Deposit
         Stay
         dtype: int64
In [18]: 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
            case_id Hospital_code Hospital_type_code City_Code_Hospital Hospital_region_code
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```

```
Stay
                                               0
         dtype: int64
In [11]: train['Bed Grade'].value_counts()
Out[11]: 2.0
               123671
         3.0
               110583
                57566
         4.0
         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()
Out[16]:
                                                                               Available
                                                                                 Extra
                                                                                Rooms Department Ward_Type Ward_Facility_Code Grade patien
            case_id Hospital_code Hospital_type_code City_Code_Hospital Hospital_region_code
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```

Signing in to the IBM Cognos tool:



Quick launch



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Prepare data

Use data modules to clean and connect data from multiple resources.



Exploration

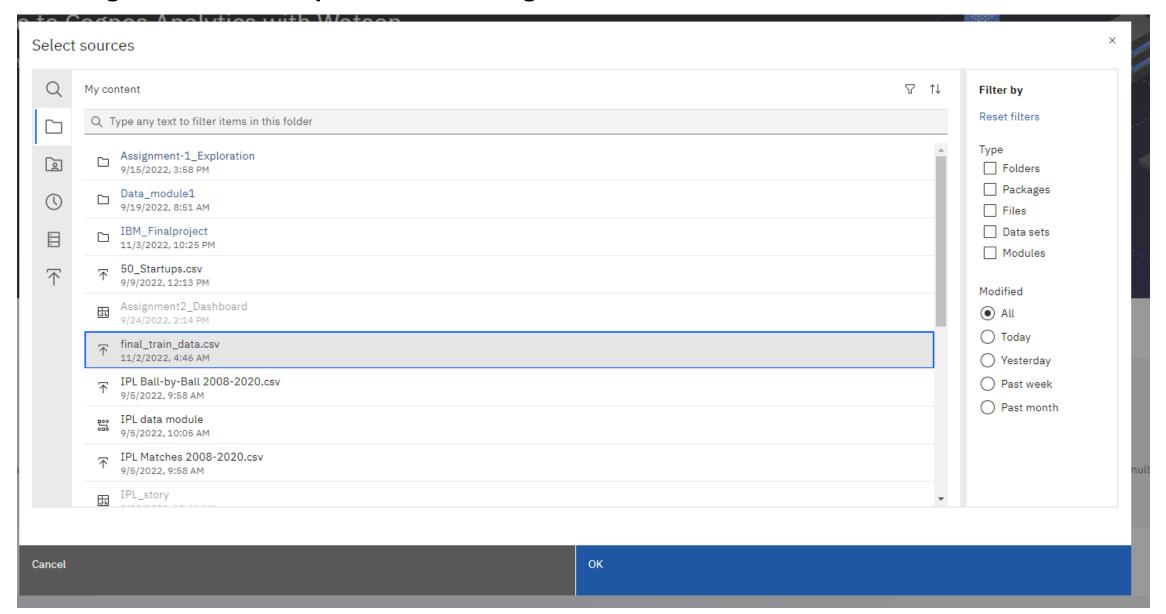
Quickly find unbiased answers by identifying trends in your data with data exploration.



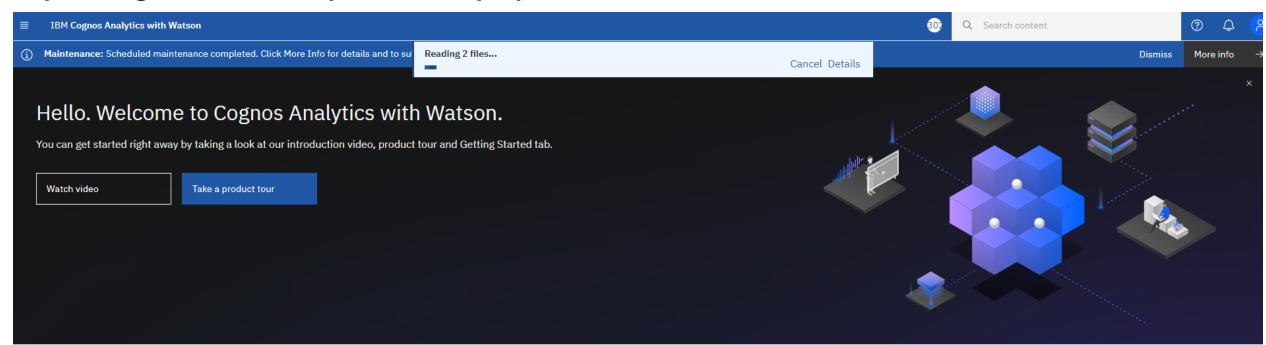
Present data

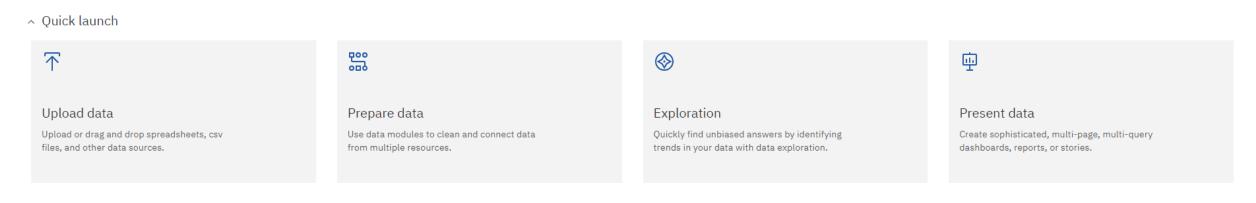
Create sophisticated, multi-page, multi-query dashboards, reports, or stories.

Selecting the dataset to upload into the Cognos:



Uploading the dataset to perform the preparation and visualization:





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