Project Development Phase Delivery of Sprint-1

Date	02 NOV 2022
Team ID	PNT2022TMID04514
Project Name	Analytics for Hospitals' Health-Care Data

Project Development Phase:

Sprint-1:

> Data Collection

Data Preparation

Sprint-2:

Data Exploration

SPRINT-1

Data Preprocessing:

Using Jupyter notebook to remove the null values:

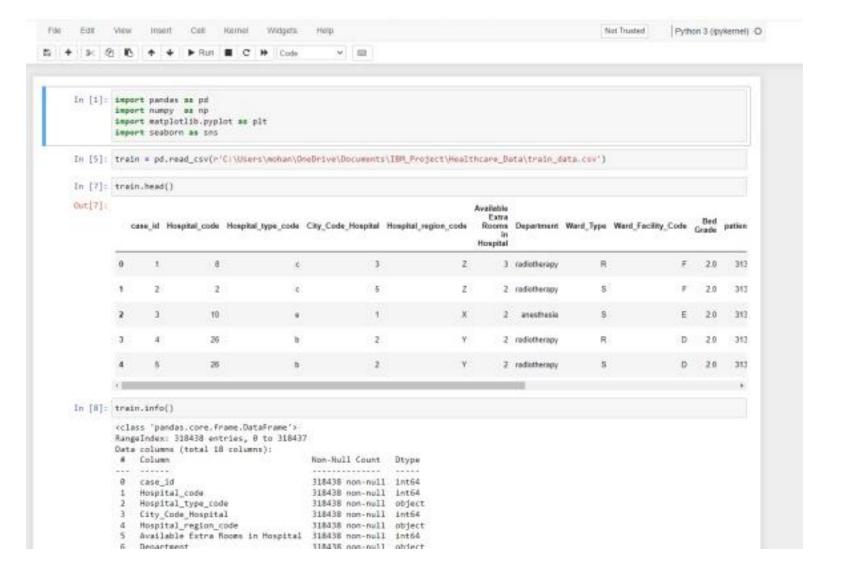
Sprint-3:

> Dashboard

Creation **Sprint-4**:

➤ Report Creation

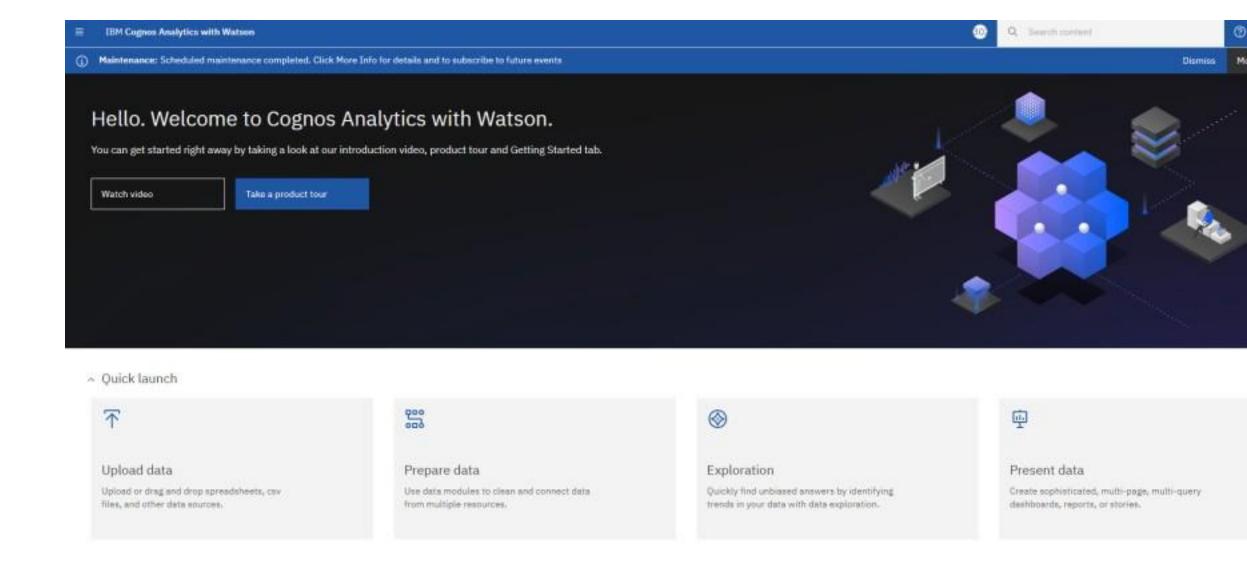
> Story Creation



```
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
            case id Hospital code Hospital type code City Code Hospital Hospital region code
                                                                                    Rooms Department Ward Type Ward Facility Code
                                                                                                                                      patien
                                                                                    Hospital
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                                                                                                                                  20
                                                                                                                                        170
```

```
Stay
         dtype: int64
In [11]: train['Bed Grade'].value_counts()
Out[11]: 2.0
                123671
         3.0
                110583
         4.0 57566
                 26505
         1.0
         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
                                                                                    Rooms Department Ward_Type Ward_Facility_Code Grade patien
            case id Hospital code Hospital type code City Code Hospital Hospital region code
                                                                                   Hospital
                                                                                        3 radiotherapy
                             2
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                                                                                        2 radiotherapy
                                                                                                                            F 2.0 313
                                                                                        2 anesthesia
                                                                                                                            E 2.0 313
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                                             b
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                                                                                        2 radiotherapy
                                                                                                                            D 2.0 313
```

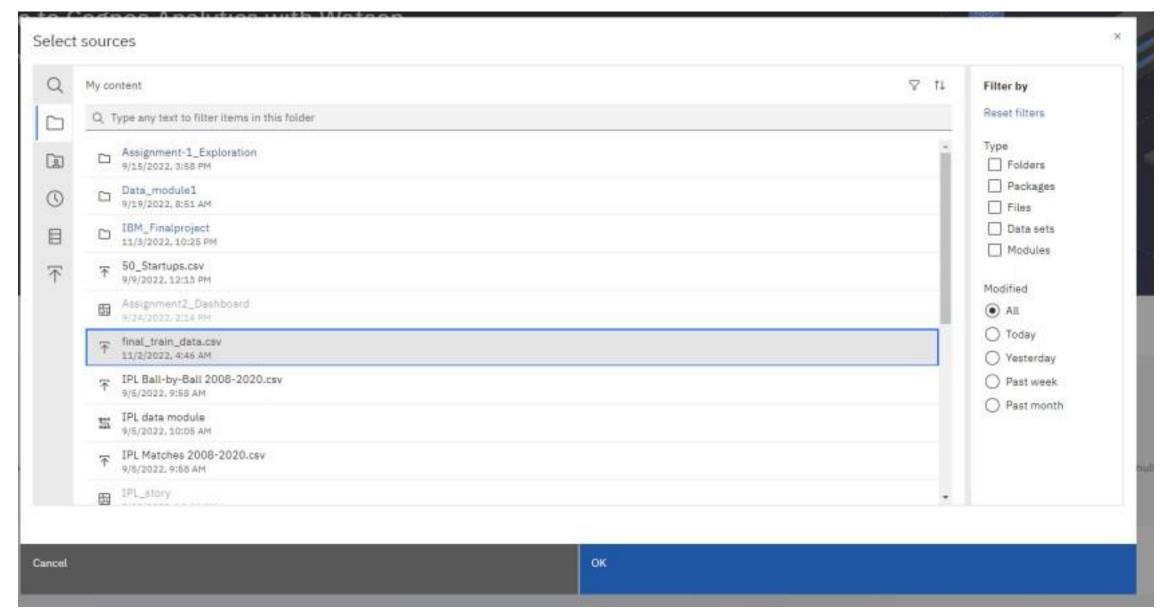
Signing in to the IBM Cognos tool:



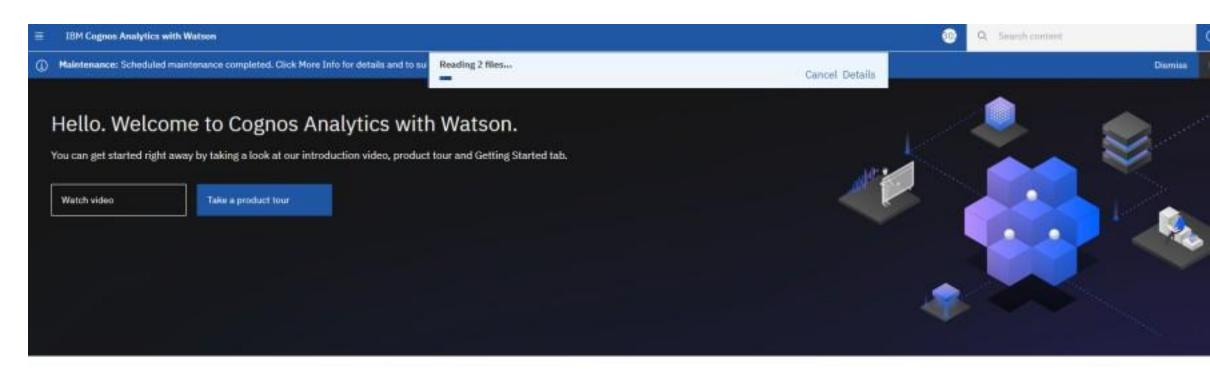
Selecting the dataset to upload into the Cognos:

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Get started



Uploading the dataset to perform the preparation and visualization:



~ Quick launch



Upload data

Upload or drag and drop spreadsheets, cav 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.

Get started

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