

PROJECT DEVELOPMENT PHASE

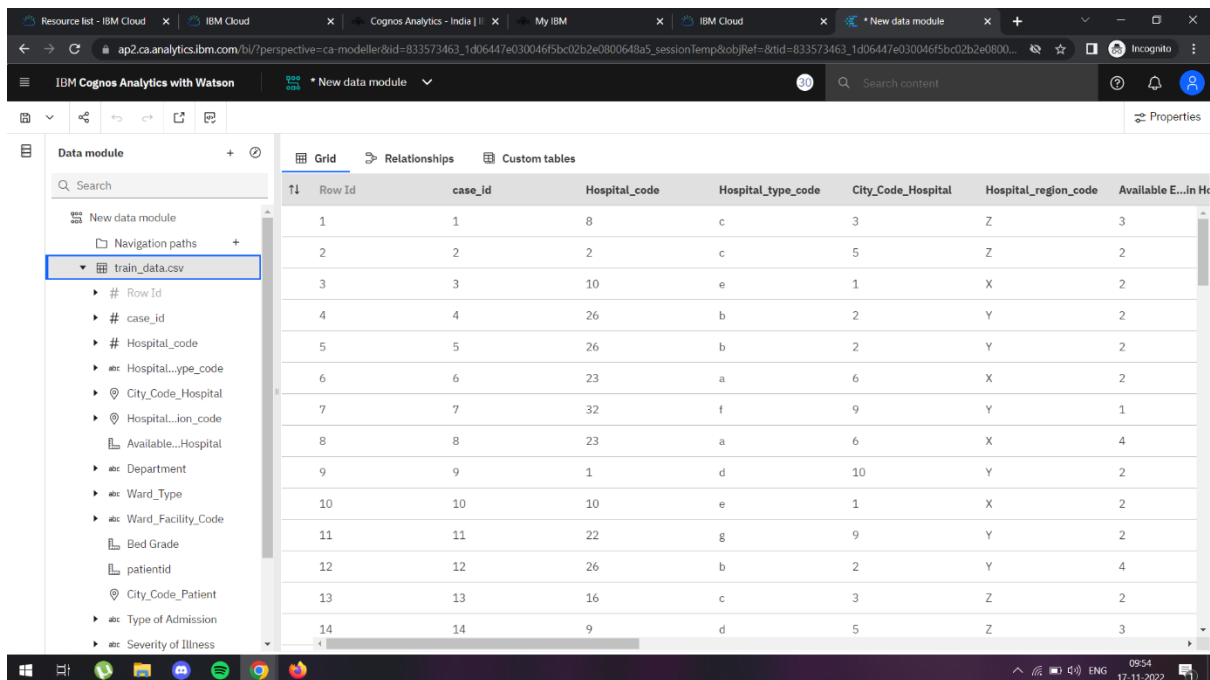
SPRINT II

| | |
|--------------|--|
| Date | 16/11/2022 |
| Team ID | PNT2022TMID44298 |
| Project Name | Analytics for Hospital's Healthcare Data |

Data Cleaning and Data Processing using Cognos Analytics:

USN-2:

- As an Analyst, I will check the data set and clean the dataset to create an efficient model.
- To Data cleaning the null values in test_data.csv dataset first.



The screenshot displays the IBM Cognos Analytics interface. On the left, a 'Data module' sidebar shows a tree view with 'train_data.csv' selected. The main area shows a 'Grid' view of the data. The table has 8 columns: Row Id, case_id, Hospital_code, Hospital_type_code, City_Code_Hospital, Hospital_region_code, and Available E... in Hc. The data is organized into 14 rows, each representing a case.

| Row Id | case_id | Hospital_code | Hospital_type_code | City_Code_Hospital | Hospital_region_code | Available E... in Hc |
|--------|---------|---------------|--------------------|--------------------|----------------------|----------------------|
| 1 | 1 | 8 | c | 3 | Z | 3 |
| 2 | 2 | 2 | c | 5 | Z | 2 |
| 3 | 3 | 10 | e | 1 | X | 2 |
| 4 | 4 | 26 | b | 2 | Y | 2 |
| 5 | 5 | 26 | b | 2 | Y | 2 |
| 6 | 6 | 23 | a | 6 | X | 2 |
| 7 | 7 | 32 | f | 9 | Y | 1 |
| 8 | 8 | 23 | a | 6 | X | 4 |
| 9 | 9 | 1 | d | 10 | Y | 2 |
| 10 | 10 | 10 | e | 1 | X | 2 |
| 11 | 11 | 22 | g | 9 | Y | 2 |
| 12 | 12 | 26 | b | 2 | Y | 4 |
| 13 | 13 | 16 | c | 3 | Z | 2 |
| 14 | 14 | 9 | d | 5 | Z | 3 |

IBM Cognos Analytics with Watson

Search content

Data module

Grid Relationships Custom tables

train_data.csv

- # Row Id
- # case_id
- # Hospital_code
- Hospital...ype_code
- City_Code_Hospital
- Hospital...ion_code
- Available...Hospital
- Department
- Ward_Type
- Ward_Facility_Code
- Bed Grade
- patientid
- City_Code_Patient
- Type of Admission
- Severity of Illness
- Visitors ...h Patient
- Age

Clean - City_Code_Patient

NULL values

☐ Replace this value with NULL 0

☒ Replace NULL values with 4

Cancel Clean

| Row Id | case_id | Hospital_code | Hospital_type_code | City_Code_Hospital | Hospital_region_code | Available E...in Hc |
|--------|---------|---------------|--------------------|--------------------|----------------------|---------------------|
| 1 | 1 | 8 | c | 3 | Z | 3 |
| 2 | 2 | 2 | c | 5 | Z | 2 |
| 3 | 3 | 10 | e | 1 | X | 2 |
| 4 | 4 | 26 | b | 2 | Y | 2 |
| 5 | 5 | 26 | b | 2 | Y | 2 |
| 6 | 6 | 23 | a | 6 | X | 2 |
| 7 | 7 | 32 | f | 9 | Y | 1 |
| 8 | 8 | 23 | a | 6 | X | 4 |
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| 12 | 12 | 26 | b | 2 | Y | 4 |
| 13 | 13 | 16 | c | 3 | Z | 2 |
| 14 | 14 | 9 | d | 5 | Z | 3 |

IBM Cognos Analytics with Watson

Search content

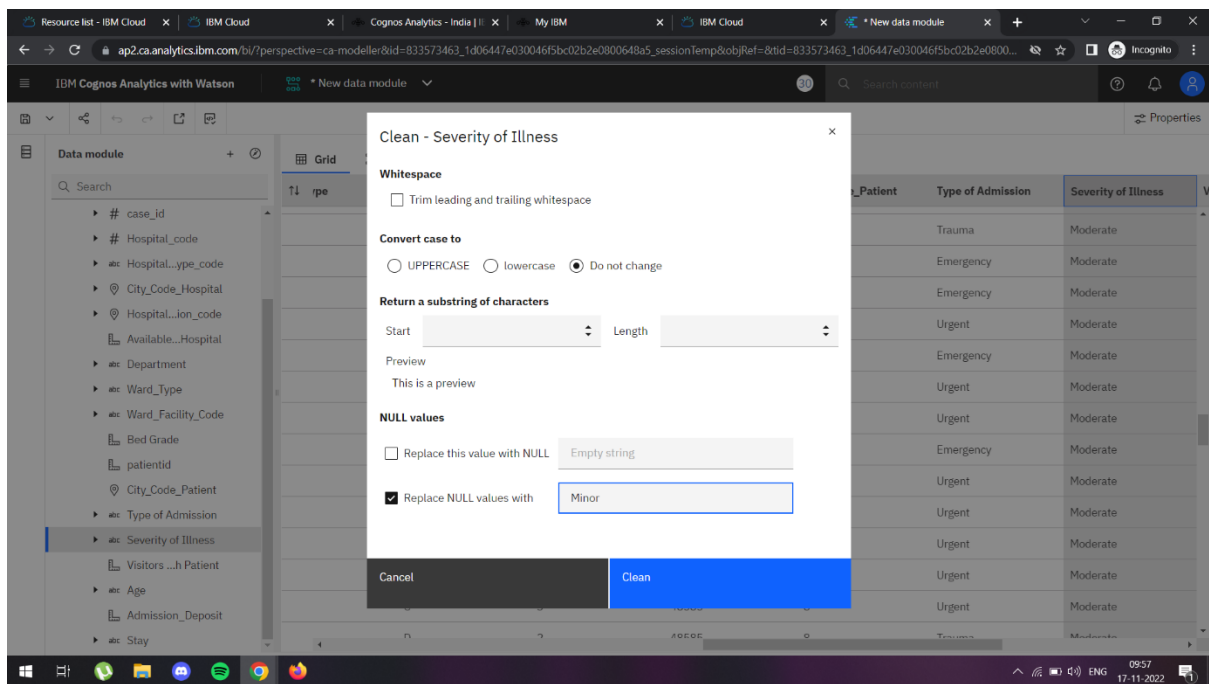
Data module

Grid Relationships Custom tables

train_data.csv

- # Row Id
- # case_id
- # Hospital_code
- Hospital...ype_code
- City_Code_Hospital
- Hospital...ion_code
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| Row Id | case_id | Hospital_code | Hospital_type_code | City_Code_Hospital | Hospital_region_code | Available E...in Hc |
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| 1 | 1 | 8 | c | 3 | Z | 3 |
| 2 | 2 | 2 | c | 5 | Z | 2 |
| 3 | 3 | 10 | e | 1 | X | 2 |
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| 10 | 10 | 10 | e | 1 | X | 2 |
| 11 | 11 | 22 | g | 9 | Y | 2 |
| 12 | 12 | 26 | b | 2 | Y | 4 |
| 13 | 13 | 16 | c | 3 | Z | 2 |
| 14 | 14 | 9 | d | 5 | Z | 3 |



The screenshot shows the IBM Cognos Analytics interface with a data table displayed. The table has 14 rows and 8 columns. The columns are: Row Id, case_id, Hospital_code, Hospital_type_code, City_Code_Hospital, Hospital_region_code, and Available E...in Hc. The data is as follows:

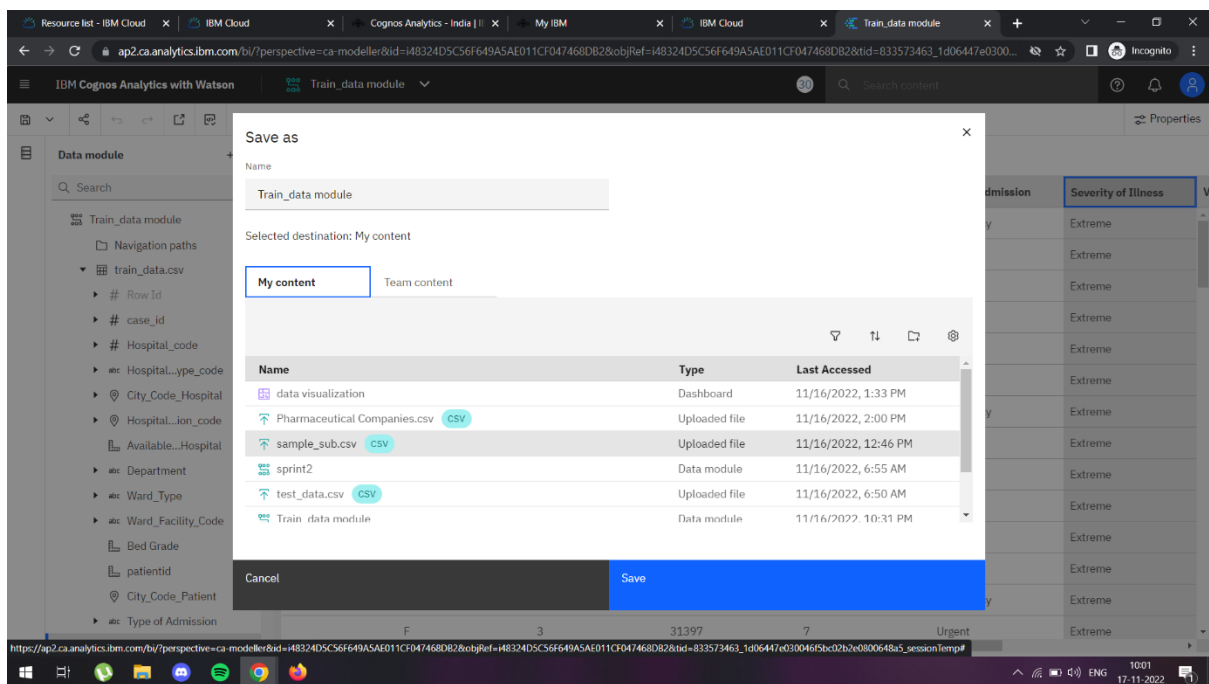
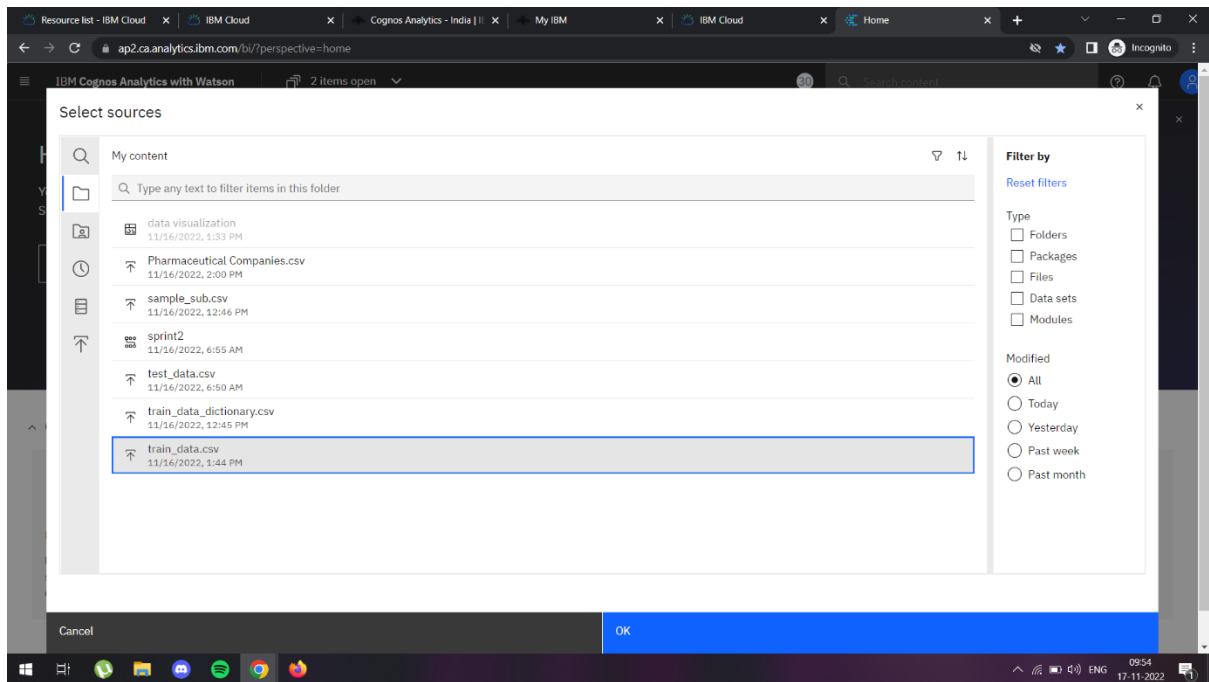
| Row Id | case_id | Hospital_code | Hospital_type_code | City_Code_Hospital | Hospital_region_code | Available E...in Hc |
|--------|---------|---------------|--------------------|--------------------|----------------------|---------------------|
| 1 | 1 | 8 | c | 3 | Z | 3 |
| 2 | 2 | 2 | c | 5 | Z | 2 |
| 3 | 3 | 10 | e | 1 | X | 2 |
| 4 | 4 | 26 | b | 2 | Y | 2 |
| 5 | 5 | 26 | b | 2 | Y | 2 |
| 6 | 6 | 23 | a | 6 | X | 2 |
| 7 | 7 | 32 | f | 9 | Y | 1 |
| 8 | 8 | 23 | a | 6 | X | 4 |
| 9 | 9 | 1 | d | 10 | Y | 2 |
| 10 | 10 | 10 | e | 1 | X | 2 |
| 11 | 11 | 22 | g | 9 | Y | 2 |
| 12 | 12 | 26 | b | 2 | Y | 4 |
| 13 | 13 | 16 | c | 3 | Z | 2 |
| 14 | 14 | 9 | d | 5 | Z | 3 |

Creating The Data Module using Cognos Analytics:

USN-3:

- As an Analyst I will also correct the raw data and create a data module.

- I will Create the data module using test_data.csv dataset first



Resource list - IBM Cloud | IBM Cloud | Cognos Analytics - India | IBM Products | Train_data module | IBM-Project-27906-1 | IBM SkillsBuild Software | +

ap2.ca.analytics.ibm.com/bl/?perspective=ca-modeller&id=48324D5C56F649A5AE011CF047468DB2&objRef=48324D5C56F649A5AE011CF047468DB2&tid=833573463_1d06447e0300...

IBM Cognos Analytics with Watson | Train_data module | Search content | Properties

Data module | Grid | Relationships | Custom tables

Search

Train_data module

- Navigation paths
- train_data.csv
 - # Row Id
 - # case_id
 - # Hospital_code
 - Hospital...ype_code
 - City_Code_Hospital
 - Hospital...ion_code
 - Available...Hospital
 - Department
 - Ward_Type
 - Ward_Facility_Code
 - Bed Grade
 - patientid
 - City_Code_Patient
 - Type of Admission
 - Severity of Illness

Preview data

To preview data, select a table, a column in a table, or a folder that contains columns.

Resource list - IBM Cloud | IBM Cloud | Cognos Analytics - India | My IBM | IBM Cloud | Train_data module | +

ap2.ca.analytics.ibm.com/bl/?perspective=ca-modeller&id=48324D5C56F649A5AE011CF047468DB2&objRef=48324D5C56F649A5AE011CF047468DB2&tid=833573463_1d06447e0300...

IBM Cognos Analytics with Watson | Train_data module | Search content | Properties

Data module | Grid | Relationships | Custom tables

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Train_data module

- Navigation paths
- train_data.csv
 - # Row Id
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 - Department
 - Ward_Type
 - Ward_Facility_Code
 - Bed Grade
 - patientid
 - City_Code_Patient
 - Type of Admission
 - Severity of Illness

train_data.csv

Diagram settings

- Cardinality
- Focus mode
- Degrees of separation: 1