

Sprint Delivery Plan I

Project Development Phase

SPRINT-I

Data Collection
Data Preparation

SPRINT-III

Dashboard Creation

SPRINT-II

Data Exploration
Story Creation

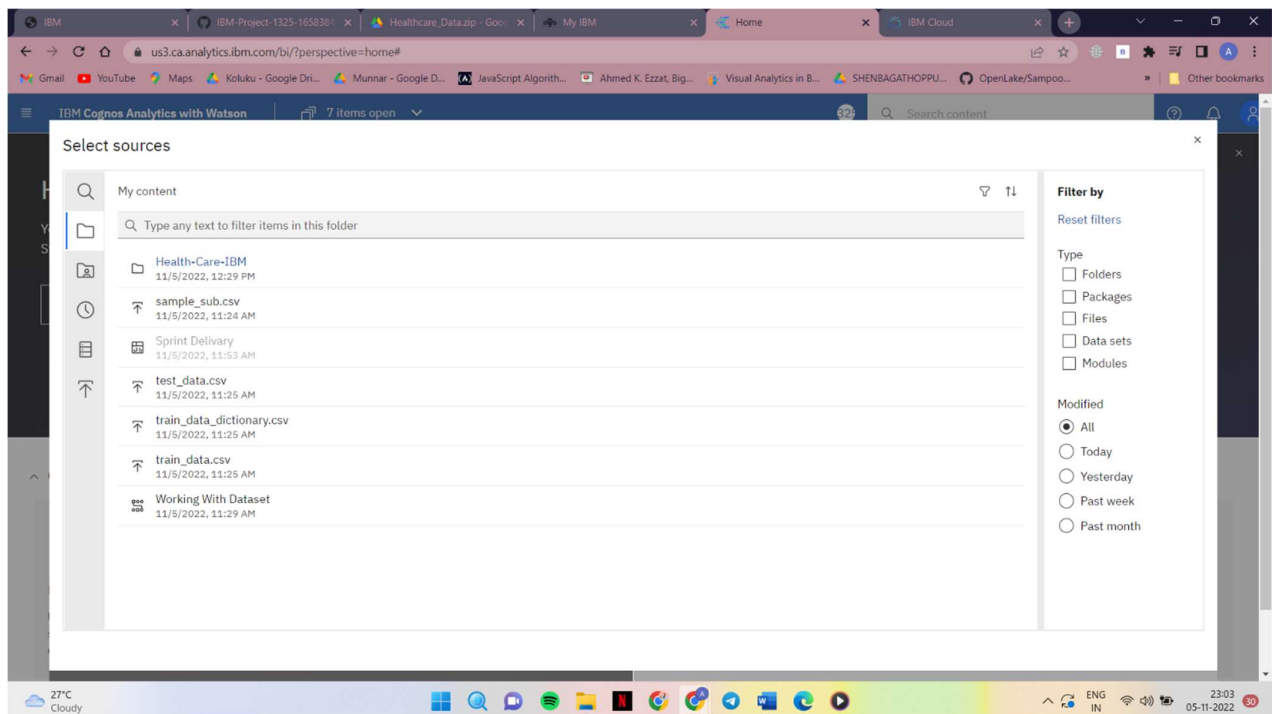
SPRINT-IV

Report Creation
Story Creation

Importing Data Sets of Analytics for Hospitals Health Care Data Using Cognos Analytics:

USN-1:

- As a User I can enter the details of the patients working in our organization of the details.
- Uploading the dataset of test_data.csv and train_data.csv file to IBM Cognos Analytics.



IBM Cognos Analytics with Watson

Hello. Welcome to IBM Cognos Analytics.

You can get started right away by clicking on the Started tab.

Watch video

Quick launch

Upload data

Upload or drag and drop spreadsheets, csv files, and other data sources.

Add a data source to explore

My content | Team content

Name	Type	Last Accessed
Health-Care-IBM	Folder	11/5/2022, 12:29 PM
sample_sub.csv	Uploaded file	11/5/2022, 11:24 AM
test_data.csv	Uploaded file	11/5/2022, 11:25 AM
train_data_dictionary.csv	Uploaded file	11/5/2022, 11:25 AM
train_data.csv	Uploaded file	11/5/2022, 11:25 AM
Working With Dataset	Data module	11/5/2022, 11:29 AM

Cancel Add

27°C Cloudy

23:07 05-11-2022

IBM Cognos Analytics with Watson

* New data module

Data module

Search

- New data module
 - Navigation paths
 - train_data.csv
 - # Row Id
 - # case_id
 - # Hospital_code
 - Hospital_type_code
 - City_Code_Hospital
 - Hospital_region_code
 - Available...Hospital
 - Department
 - Ward_Type
 - Ward_Facility_Code
 - Bed Grade
 - patientid
 - City_Code_Patient
 - Time of Admission

Grid

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

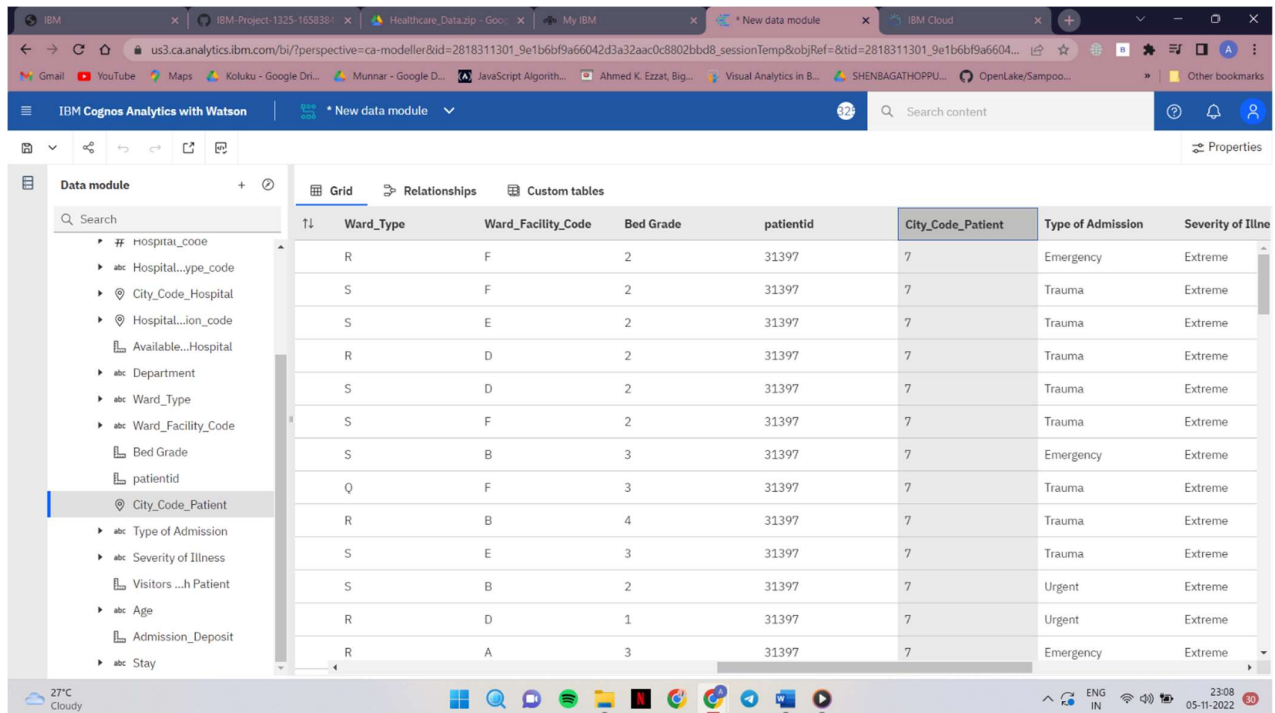
27°C Cloudy

23:08 05-11-2022

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.

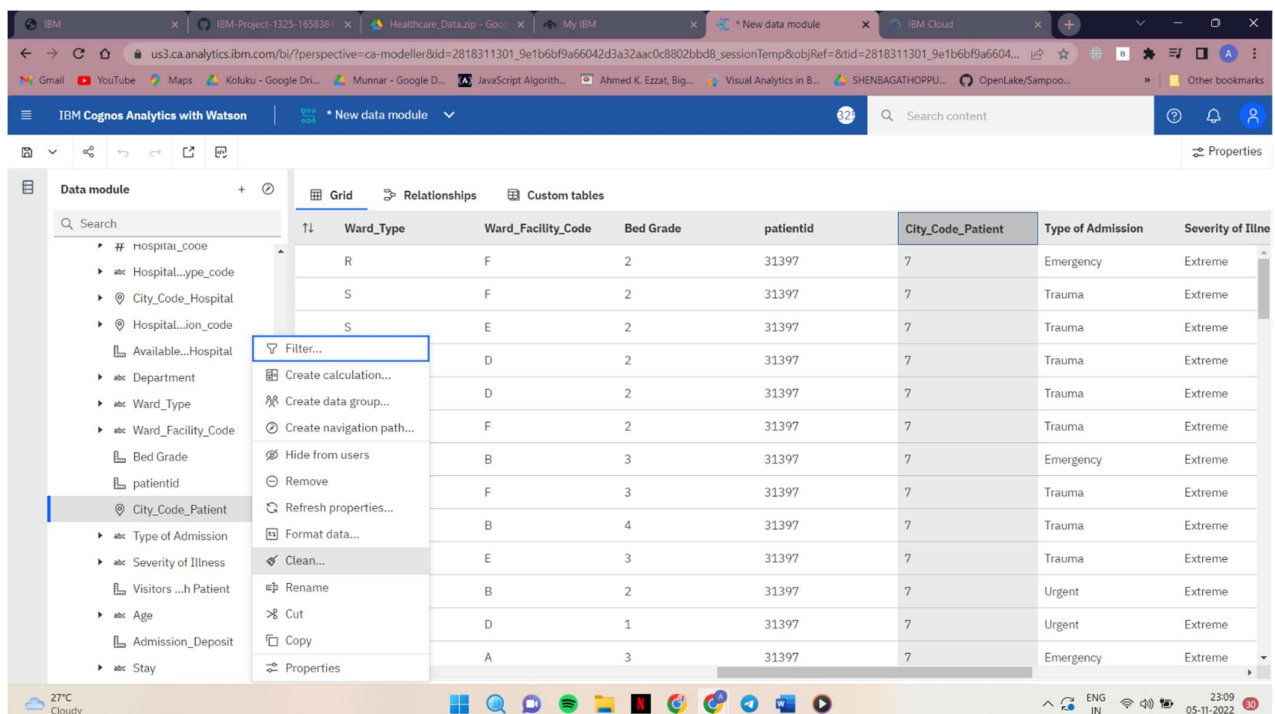


IBM Cognos Analytics with Watson

Data module

Grid Relationships Custom tables

Ward_Type	Ward_Facility_Code	Bed Grade	patientid	City_Code_Patient	Type of Admission	Severity of Illness
R	F	2	31397	7	Emergency	Extreme
S	F	2	31397	7	Trauma	Extreme
S	E	2	31397	7	Trauma	Extreme
R	D	2	31397	7	Trauma	Extreme
S	D	2	31397	7	Trauma	Extreme
S	F	2	31397	7	Trauma	Extreme
S	B	3	31397	7	Emergency	Extreme
Q	F	3	31397	7	Trauma	Extreme
R	B	4	31397	7	Trauma	Extreme
S	E	3	31397	7	Trauma	Extreme
S	B	2	31397	7	Urgent	Extreme
R	D	1	31397	7	Urgent	Extreme
R	A	3	31397	7	Emergency	Extreme



IBM Cognos Analytics with Watson

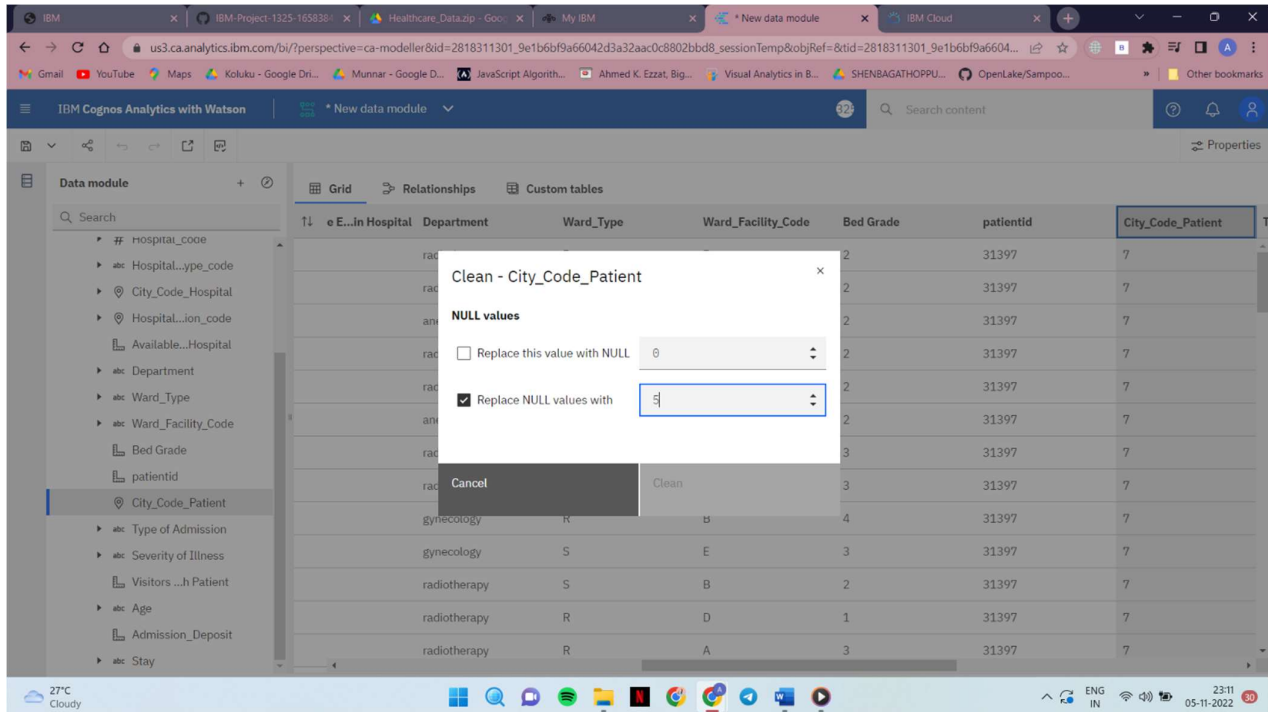
Data module

Grid Relationships Custom tables

Ward_Type	Ward_Facility_Code	Bed Grade	patientid	City_Code_Patient	Type of Admission	Severity of Illness
R	F	2	31397	7	Emergency	Extreme
S	F	2	31397	7	Trauma	Extreme
S	E	2	31397	7	Trauma	Extreme
	D	2	31397	7	Trauma	Extreme
	D	2	31397	7	Trauma	Extreme
	F	2	31397	7	Trauma	Extreme
	B	3	31397	7	Emergency	Extreme
	F	3	31397	7	Trauma	Extreme
	B	4	31397	7	Trauma	Extreme
	E	3	31397	7	Trauma	Extreme
	B	2	31397	7	Urgent	Extreme
	D	1	31397	7	Urgent	Extreme
	A	3	31397	7	Emergency	Extreme

Filter...
Create calculation...
Create data group...
Create navigation path...
Hide from users
Remove
Refresh properties...
Format data...
Clean...
Rename
Cut
Copy
Properties

- To Data cleaning the null values in train_data.csv dataset.



IBM Cognos Analytics with Watson

us3.ca.analytics.ibm.com/bi/?perspective=ca-modeller&id=2818311301_9e1b6bf9a66042d3a32aac0c802bbd8_sessionTemp&objRef=&tid=2818311301_9e1b6bf9a66042d3a...

IBM Cognos Analytics with Watson

New data module

Search content

Data module

Grid

Search

- # hospital_coe
- abc Hospital...ype_code
- @ City_Code_Hospital
- @ Hospital...ion_code
- Available...Hospital
- abc Department
- abc Ward_Type
- abc Ward_Facility_Code
- Bed Grade
- patientid
- City_Code_Patient
- abc Type of Admission
- abc Severity of Illness
- Visitors ...h Patient
- abc Age
- Admission_Deposit
- abc Stay

Clean - Severity of Illness

Whitespace

☐ Trim leading and trailing whitespace

Convert case to

☐ UPPERCASE ☐ lowercase ☒ Do not change

Return a substring of characters

Start Length

Preview

This is a preview

NULL values

☐ Replace this value with NULL

☒ Replace NULL values with

Cancel Clean

Patient	Type of Admission	Severity of Illness
	Emergency	Extreme
	Trauma	Extreme
	Trauma	Extreme
	Trauma	Extreme
	Trauma	Extreme
	Trauma	Extreme
	Emergency	Extreme
	Trauma	Extreme
	Trauma	Extreme
	Trauma	Extreme
	Urgent	Extreme
	Urgent	Extreme
	Emergency	Extreme

25°C Cloudy

00:21 06-11-2022

IBM Cognos Analytics with Watson

us3.ca.analytics.ibm.com/bi/?perspective=ca-modeller&id=ib098093CFA5E46EFA034F96802C45ADD&objRef=ib098093CFA5E46EFA034F96802C45ADD&tid=3019265856_f53f...

IBM Cognos Analytics with Watson

Test_Data_Module

Search content

Data module

Grid Relationships Custom tables

Search

- # hospital_coe
- abc Hospital...ype_code
- @ City_Code_Hospital
- @ Hospital...ion_code
- Available...Hospital
- abc Department
- abc Ward_Type
- abc Ward_Facility_Code
- Bed Grade
- patientid
- City_Code_Patient
- abc Type of Admission
- abc Severity of Illness
- Visitors ...h Patient
- abc Age
- Admission_Deposit
- abc Stay

acility_Code	Bed Grade	patientid	City_Code_Patient	Type of Admission	Severity of Illness	Visitors with Patient
4	4	82551	8	Trauma	Minor	2
4	4	82551	8	Emergency	Minor	2
3	3	88451	8	Trauma	Moderate	4
2	2	88451	8	Emergency	Moderate	4
2	2	88451	8	Emergency	Moderate	4
3	3	88451	8	Urgent	Moderate	13
1	1	88451	8	Emergency	Moderate	4
2	2	21257	7	Urgent	Moderate	3
2	2	21257	7	Urgent	Moderate	8
2	2	21257	7	Emergency	Moderate	2
1	1	21257	7	Urgent	Moderate	2
2	2	21257	7	Urgent	Moderate	2

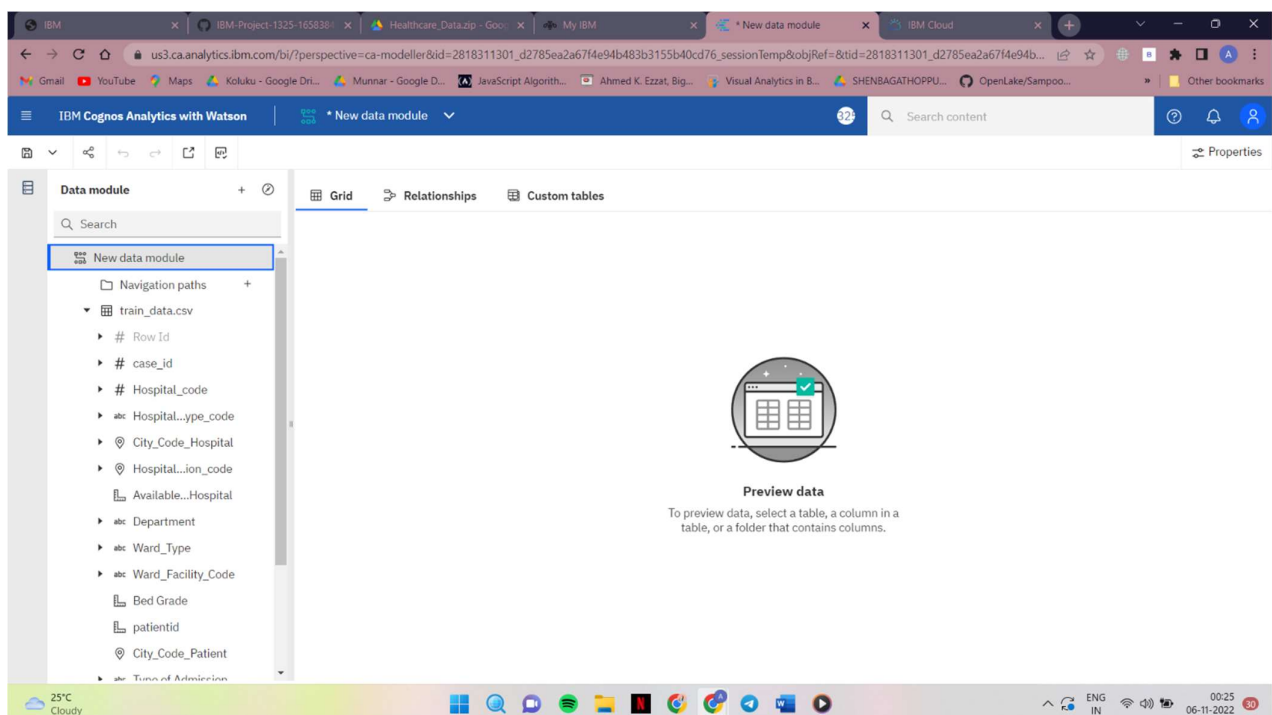
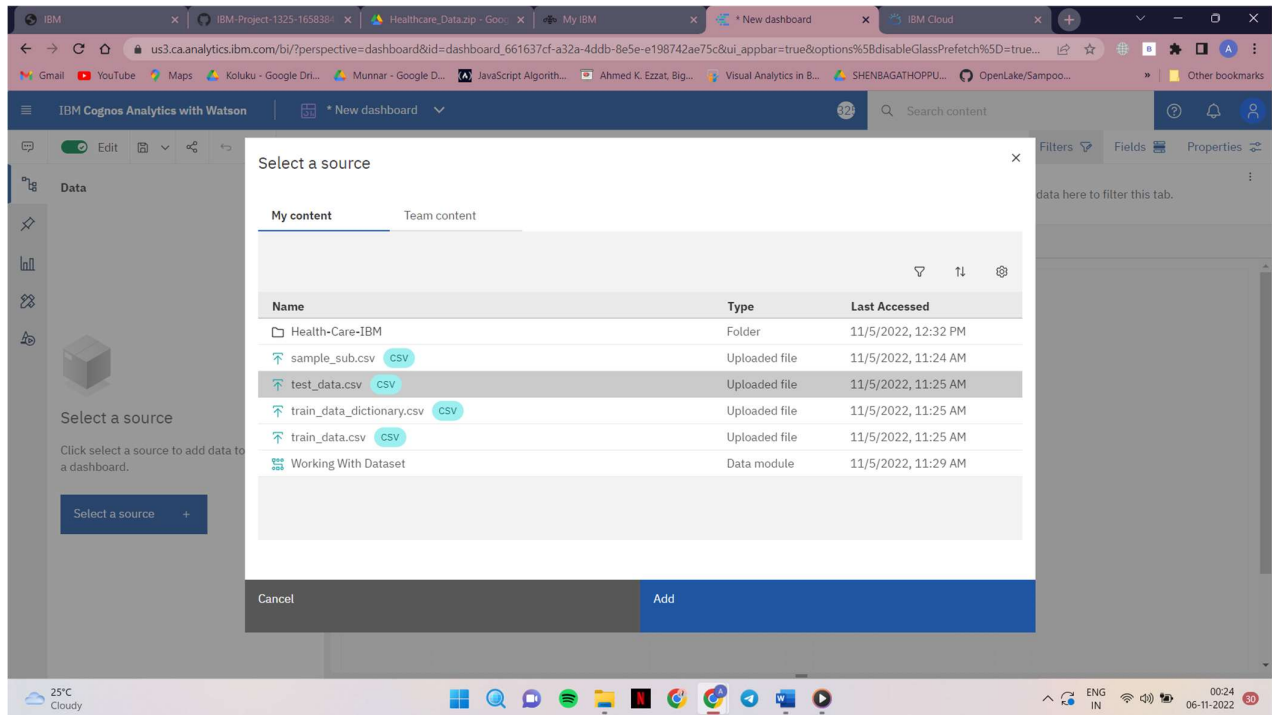
26°C Mostly cloudy

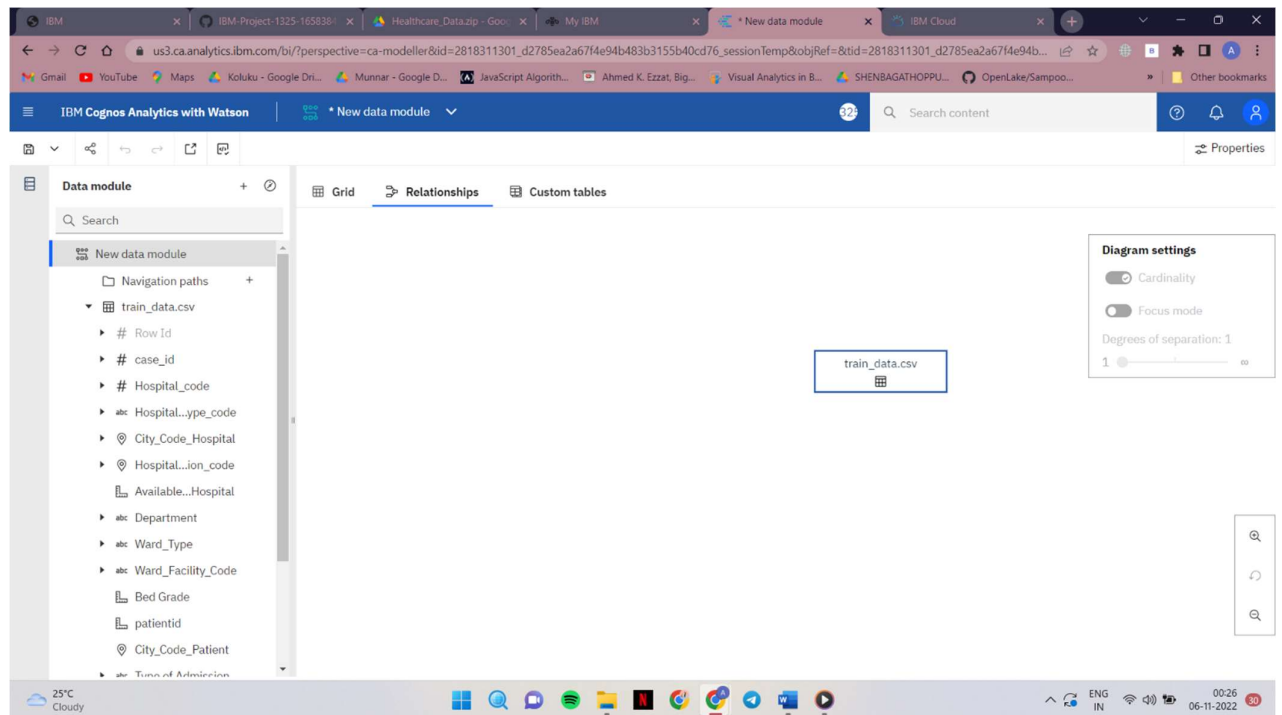
00:53 06-11-2022

Creating The Data Module using Cognos

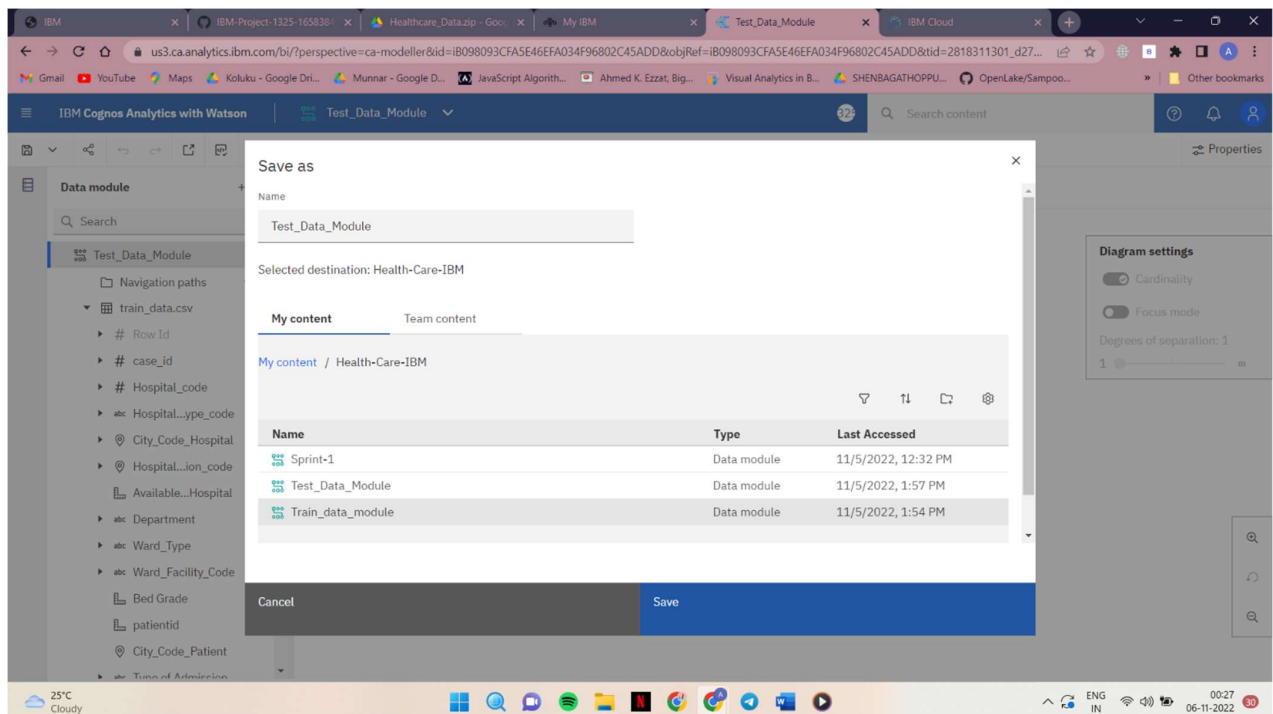
Analytics:USN-3:

- 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.





- Then I will Create the data module using train_data.csv dataset.



IBM Cognos Analytics with Watson | Test_Data_Module

Search content

Properties

Data module

Search

Test_Data_Module

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

Grid Relationships Custom tables

Preview data

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

25°C Cloudy

ENG IN 00:28 06-11-2022

IBM Cognos Analytics with Watson | Test_Data_Module

Search content

Properties

Data module

Search

Test_Data_Module

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

Grid Relationships Custom tables

train_data.csv

Diagram settings

- Cardinality
- Focus mode
- Degrees of separation: 1

25°C Cloudy

ENG IN 00:27 06-11-2022