

## Sprint Delivery Plan I

Date	28 October 2022
Team ID	PNT2022TMID40524
Project Name	Project – Analytics for Hospitals Health Care Data

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

#### 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.

The screenshot displays the IBM Cognos Analytics web interface. The browser address bar shows the URL: `us1.ca.analytics.ibm.com/bi/?perspective=content&tab=myContent&folder=iFC24D3F5F94644C0924C7A711ED71C33`. The page header includes the IBM Cognos Analytics with Watson logo, a 'Content' dropdown menu, a search bar, and user profile icons. The main content area is titled 'Hospitals health care' and features tabs for 'My content', 'Team content', and 'Samples'. Below the tabs, a breadcrumb trail reads 'My content / Hospitals health care'. A table lists the contents of the folder:

Name	Type	Last Accessed
Test_data module	Data module	30/10/2022, 8:59 AM
test_data.csv	Uploaded file	30/10/2022, 3:39 AM
train_data.csv	Uploaded file	30/10/2022, 3:12 AM

us1.ca.analytics.ibm.com/bi/?perspective=content&tab=myContent&folder=iFC24D3F5F94644C0924C7A711ED71C33

IBM Cognos Analytics with Watson

Content

Hospitals health care

My content Team content Samples

My content / Hospitals health care

Name	Type	Last Accessed
train_data.csv CSV	Uploaded file	30/10/2022, 3:12 AM

us1.ca.analytics.ibm.com/bi/?perspective=ca-modeler&id=957208312\_2fcadee017a1436c8180c1d480b8ce25\_sessionTemp&objRef=&tid=957208312\_2fcade...

IBM Cognos Analytics with Watson

New data module

Data module

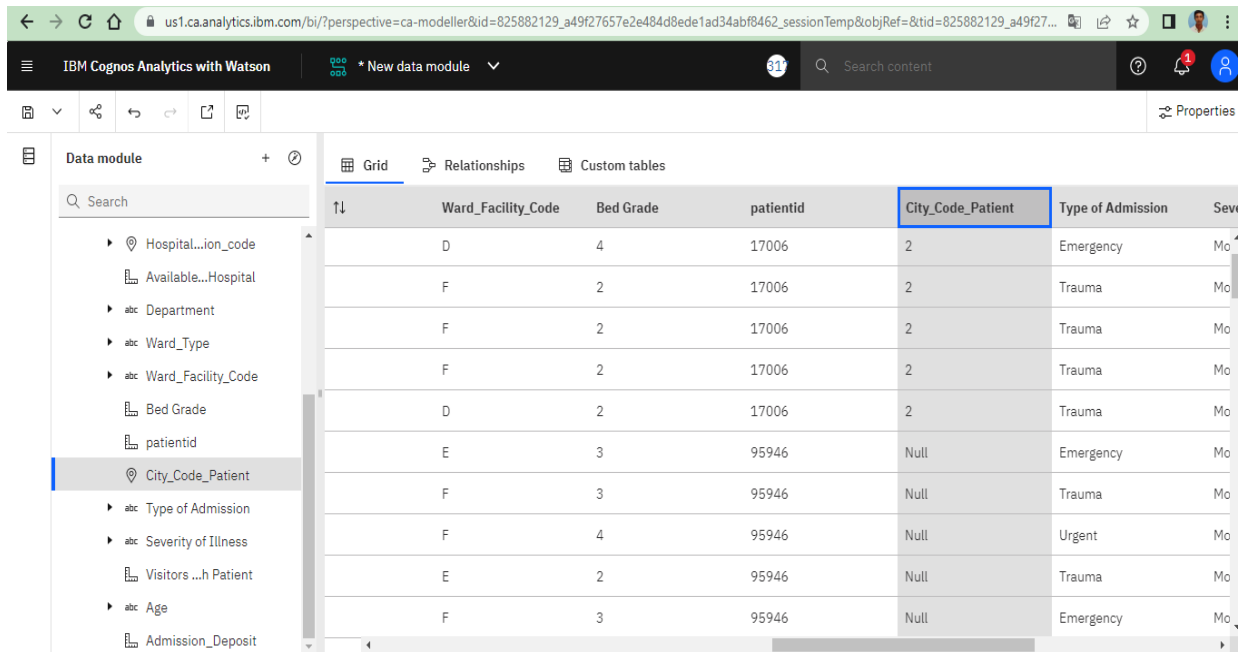
Grid Relationships Custom tables

case_id	Hospital_code	Hospital_type_code	City_Code_Hospital	Hospital_region_code	Av
1	8	c	3	Z	3
2	2	c	5	Z	2
3	10	e	1	X	2
4	26	b	2	Y	2
5	26	b	2	Y	2
6	23	a	6	X	2
7	32	f	9	Y	1
8	23	a	6	X	4
9	1	d	10	Y	2
10	10	e	1	X	2

## Data Cleaning and Data Processing using Cognos Analytics:

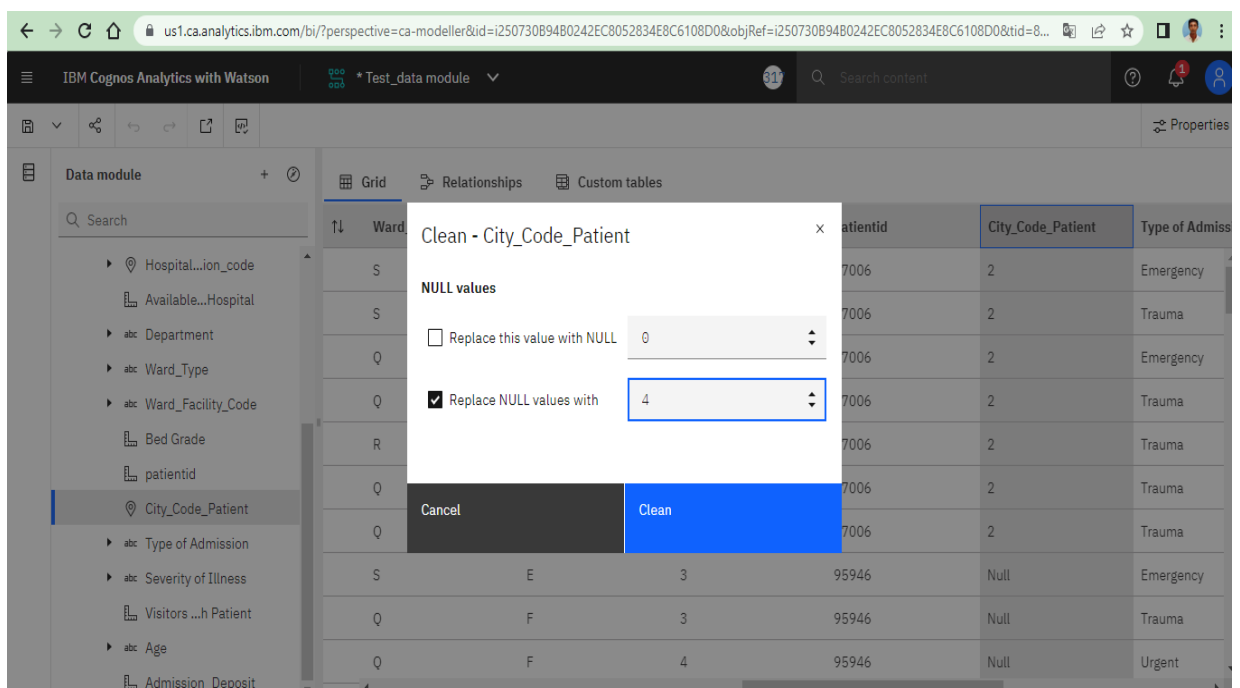
### USN-2:

- 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 shows the IBM Cognos Analytics interface. On the left, a 'Data module' sidebar lists various fields. The main area displays a table with columns: Ward\_Facility\_Code, Bed Grade, patientid, City\_Code\_Patient, Type of Admission, and Severity of Illness. The 'City\_Code\_Patient' column has several null values.

Ward_Facility_Code	Bed Grade	patientid	City_Code_Patient	Type of Admission	Severity of Illness
D	4	17006	2	Emergency	Minor
F	2	17006	2	Trauma	Minor
F	2	17006	2	Trauma	Minor
F	2	17006	2	Trauma	Minor
D	2	17006	2	Trauma	Minor
E	3	95946	Null	Emergency	Minor
F	3	95946	Null	Trauma	Minor
F	4	95946	Null	Urgent	Minor
E	2	95946	Null	Trauma	Minor
F	3	95946	Null	Emergency	Minor



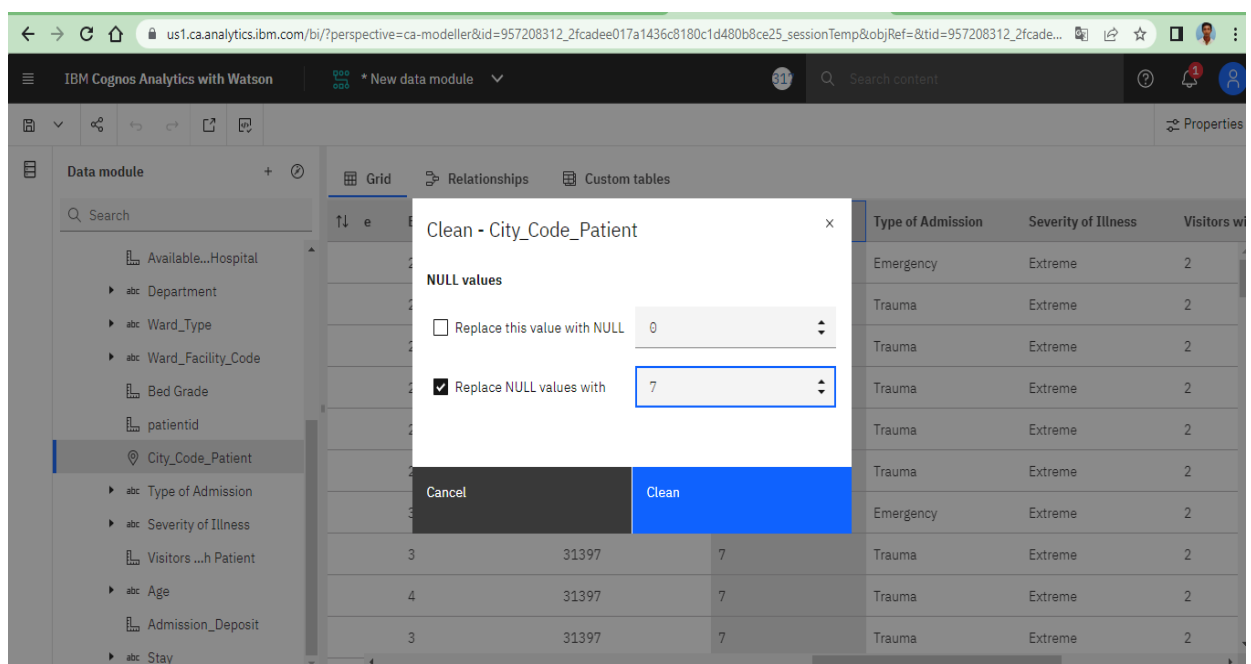
The screenshot shows the same IBM Cognos Analytics interface, but with a 'Clean - City\_Code\_Patient' dialog box open. The dialog has a 'NULL values' section with two options: 'Replace this value with NULL' (unchecked) and 'Replace NULL values with' (checked). The value '4' is entered in the input field next to the checked option. The 'Clean' button is highlighted in blue.

Ward	patientid	City_Code_Patient	Type of Admission
S	7006	2	Emergency
S	7006	2	Trauma
Q	7006	2	Emergency
Q	7006	2	Trauma
R	7006	2	Trauma
Q	7006	2	Trauma
Q	7006	2	Trauma
S	E	3	Emergency
Q	F	3	Trauma
Q	F	4	Urgent

The screenshot shows the IBM Cognos Analytics interface. On the left, the 'Data module' pane lists various fields: 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, and Admission\_Deposit. The 'City\_Code\_Patient' field is selected. The main area displays a table with the following columns: Patient, Ward\_Type, Ward\_Facility\_Code, Bed Grade, patientid, and City\_Code\_Patient. The table contains 12 rows of data.

Patient	Ward_Type	Ward_Facility_Code	Bed Grade	patientid	City_Code_Patient
17006	Q	F	2	17006	2
17006	R	F	2	17006	2
17006	Q	F	2	17006	2
17006	Q	D	2	17006	2
95946	S	E	3	95946	4
95946	Q	F	3	95946	4
95946	Q	F	4	95946	4
95946	Q	E	2	95946	4
95946	R	F	3	95946	4
95946	R	A	3	95946	4

- To Data cleaning the null values in train\_data.csv dataset.



us1.ca.analytics.ibm.com/bi/?perspective=ca-modeller&id=957208312\_2fcadee017a1436c8180c1d480b8ce25\_sessionTemp&objRef=&tid=957208312\_2fcade...

IBM Cognos Analytics with Watson

Data module

Search

- 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

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

Age	Admission_Deposit
51-60	4911
51-60	5954
51-60	4745
51-60	7272
51-60	5558
51-60	4449
51-60	6167
51-60	5571
51-60	7223
51-60	6056

us1.ca.analytics.ibm.com/bi/?perspective=ca-modeller&id=957208312\_2fcadee017a1436c8180c1d480b8ce25\_sessionTemp&objRef=&tid=957208312\_2fcade...

IBM Cognos Analytics with Watson

New data module

Search content

Properties

Data module

Search

- New 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
  - abc Ward\_Type
  - abc Ward\_Facility\_Code

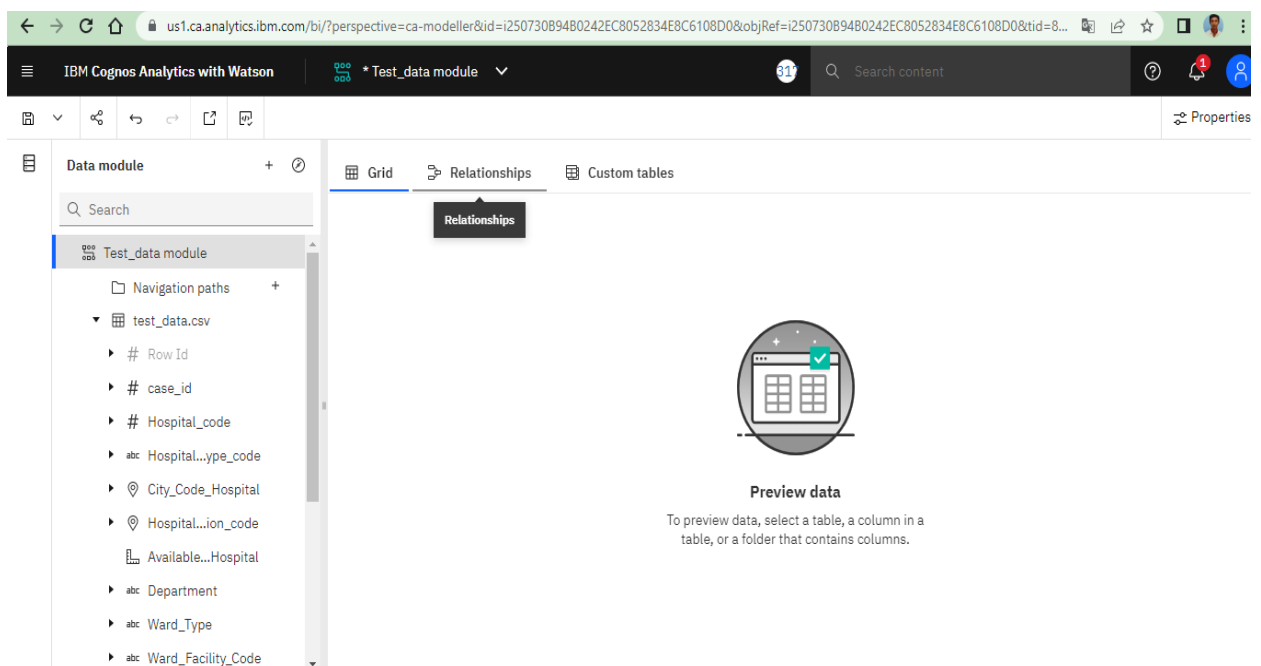
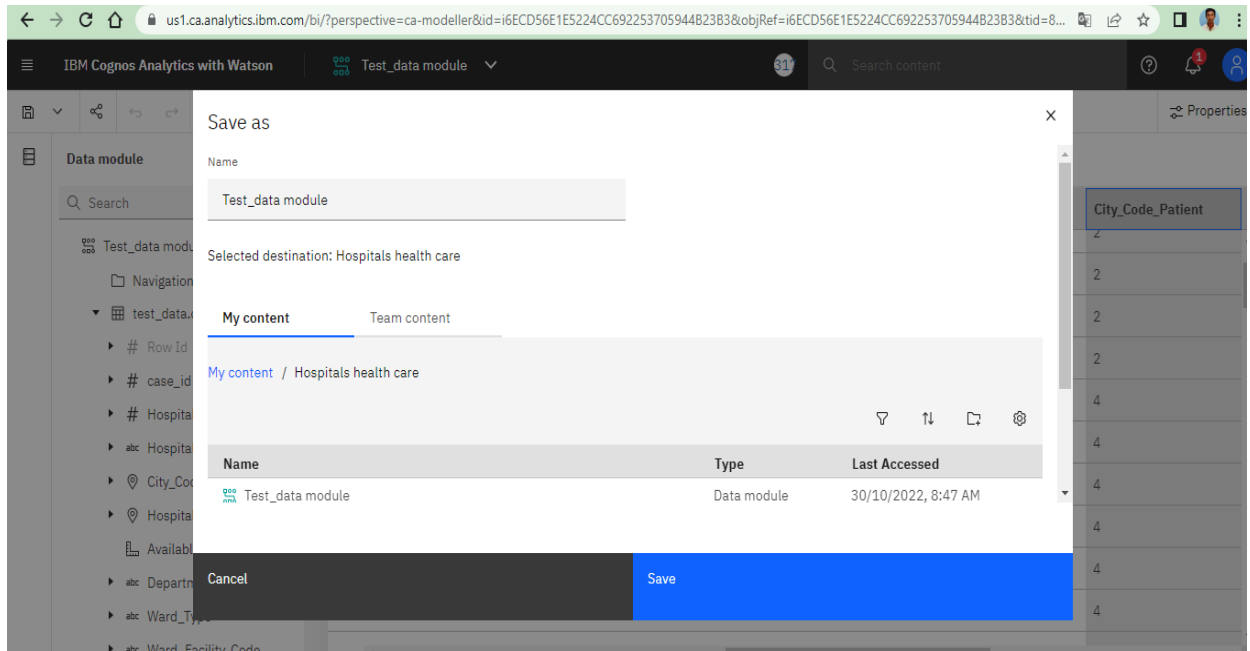
Grid

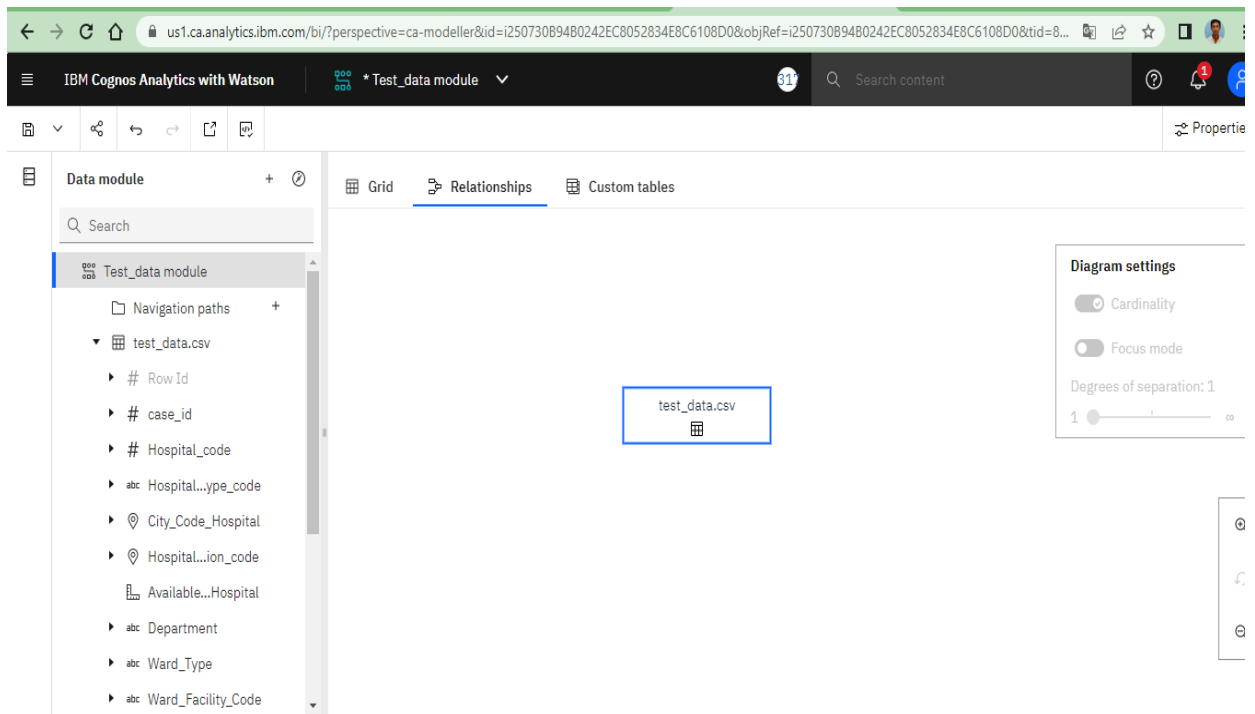
case_id	Hospital_code	Hospital_type_code	City_Code_Hospital	Hospital_region_code	Av
1	8	c	3	Z	3
2	2	c	5	Z	2
3	10	e	1	X	2
4	26	b	2	Y	2
5	26	b	2	Y	2
6	23	a	6	X	2
7	32	f	9	Y	1
8	23	a	6	X	4
9	1	d	10	Y	2
10	10	e	1	X	2

## Creating The Data Module using Cognos Analytics:

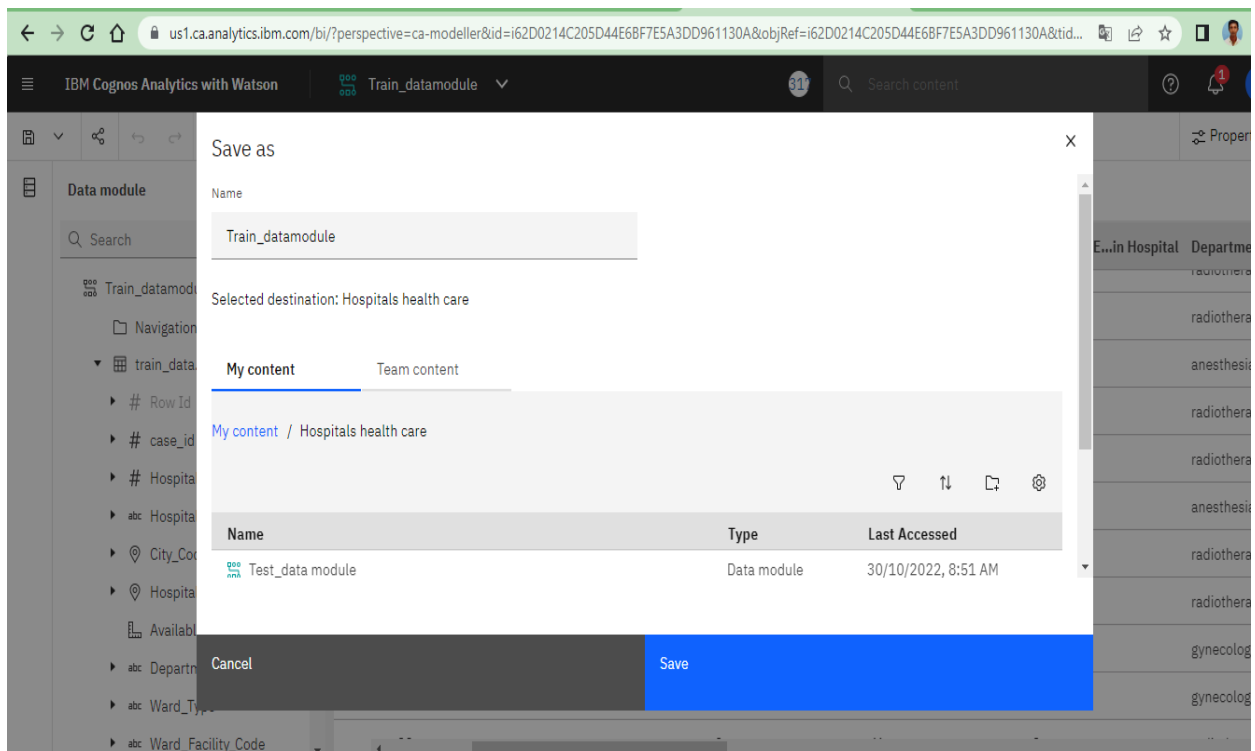
### USN-3:

- 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.



us1.ca.analytics.ibm.com/bi/?perspective=ca-modeller&id=i62D0214C205D44E68F7E5A3DD961130A&objRef=i62D0214C205D44E68F7E5A3DD961130A&tid...

IBM Cognos Analytics with Watson Train\_datamodule 317 Search content


Data module +

Search

Train\_datamodule

- 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
  - abc Ward\_Type
  - abc Ward\_Facility\_Code

Grid Relationships Custom tables



**Preview data**

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

us1.ca.analytics.ibm.com/bi/?perspective=ca-modeller&id=i62D0214C205D44E68F7E5A3DD961130A&objRef=i62D0214C205D44E68F7E5A3DD961130A&tid...

IBM Cognos Analytics with Watson Train\_datamodule 317 Search content


Data module +

Search

Train\_datamodule

- 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
  - abc Ward\_Type
  - abc Ward\_Facility\_Code


Grid Relationships Custom tables



**Diagram settings**

- ☒ Cardinality
- ☐ Focus mode

Degrees of separation: 1

1  ∞

