

Sprint Delivery Plan I

Date	11 November 2022
Team ID	PNT2022TMID30840
Project Name	Analytics for Hospital's Health CareData

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 user interface. At the top, a dark navigation bar includes the text 'IBM Cognos Analytics with Watson', a 'Content' dropdown menu, a search bar with the placeholder 'Search content', and user profile icons. Below this, the main area shows a folder named 'Hospitals health care'. Underneath the folder name are tabs for 'My content', 'Team content', and 'Samples'. The 'My content' tab is active, showing a list of items under the breadcrumb 'My content / Hospitals health care'. The list has columns for 'Name', 'Type', and 'Last Accessed'. It contains three entries: 'Test_data module' (Data module, accessed 30/10/2022, 8:59 AM), 'test_data.csv' (Uploaded file, accessed 30/10/2022, 3:39 AM, with a CSV icon), and 'train_data.csv' (Uploaded file, accessed 30/10/2022, 3:12 AM, with a CSV icon). A toolbar with various icons is visible above the list.

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

IBM Cognos Analytics with Watson

Content

31

Search content

?

1

Hospitals health care

My contentTeam contentSamples

My content / Hospitals health care

Name

Type

Last Accessed

train_data.csv CSV

Uploaded file

30/10/2022, 3:12 AM

IBM Cognos Analytics with Watson

* New data module

31

Search content

?

1

Properties

Data module

Search

New data module

Navigation paths

train_data.csv

Row Id

case_id

Hospital_code

Hospital...ype_code

City_Code_Hospital

Hospital...ion_code

Available...Hospital

abc Department

abc Ward_Type

abc Ward_Facility_Code

Grid

Relationships

Custom tables

case_id

Hospital_code

Hospital_type_code

City_Code_Hospital

Hospital_region_code

Av

1

2

3

4

5

6

7

8

9

10

8

2

10

26

26

23

32

23

1

10

c

c

e

b

b

a

f

a

d

e

3

5

1

2

2

6

9

6

10

1

Z

Z

X

Y

Y

X

Y

X

Y

X

3

2

2

2

2

2

1

4

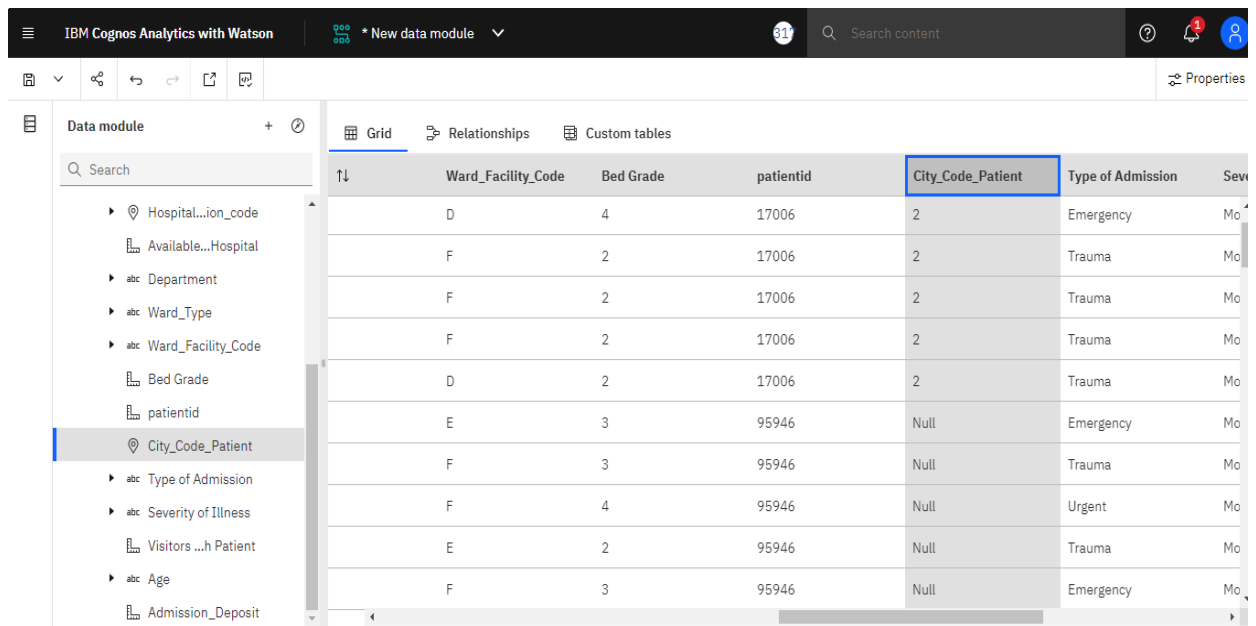
2

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.



IBM Cognos Analytics with Watson

New data module

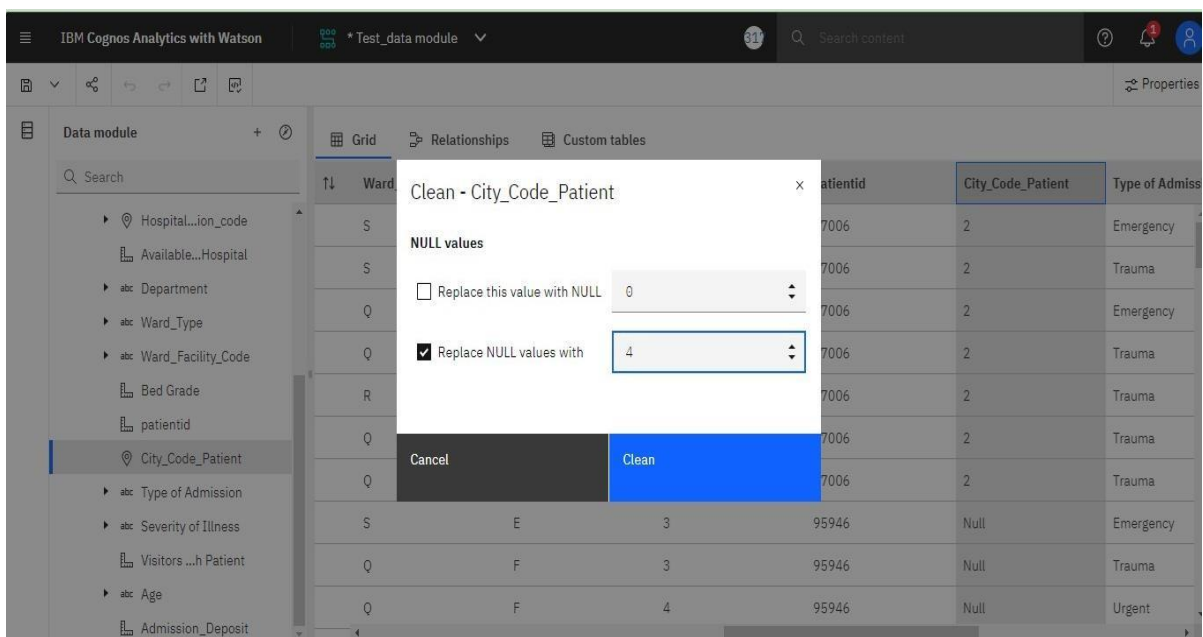
Search content

Properties

Data module

Grid Relationships Custom tables

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



IBM Cognos Analytics with Watson

Test_data module

Search content

Properties

Data module

Grid Relationships Custom tables

Clean - City_Code_Patient

NULL values

☐ Replace this value with NULL

☒ Replace NULL values with 4

Cancel Clean

Ward	patientid	City_Code_Patient	Type of Admiss
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
Q	7006	2	Trauma
S	95946	Null	Emergency
Q	95946	Null	Trauma
Q	95946	Null	Urgent

The screenshot shows the IBM Cognos Analytics interface. On the left, the 'Data module' pane lists various fields: 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, and Admission_Deposit. The 'City_Code_Patient' field is selected. The main grid view displays a table with the following columns: Patient, Ward_Type, Ward_Facility_Code, Bed Grade, patientid, and City_Code_Patient. The table contains 10 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.

The screenshot shows the IBM Cognos Analytics interface with a dialog box titled 'Clean - City_Code_Patient' open. The dialog box has a section for 'NULL values' with two options: 'Replace this value with NULL' (unchecked) and 'Replace NULL values with' (checked). The value '7' is entered in the input field next to the checked option. The background shows a table with columns: Type of Admission, Severity of Illness, and Visitors w. The table contains 10 rows of data.

Type of Admission	Severity of Illness	Visitors w
Emergency	Extreme	2
Trauma	Extreme	2
Trauma	Extreme	2
Trauma	Extreme	2
Trauma	Extreme	2
Trauma	Extreme	2
Emergency	Extreme	2
Trauma	Extreme	2
Trauma	Extreme	2
Trauma	Extreme	2

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

nt	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

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

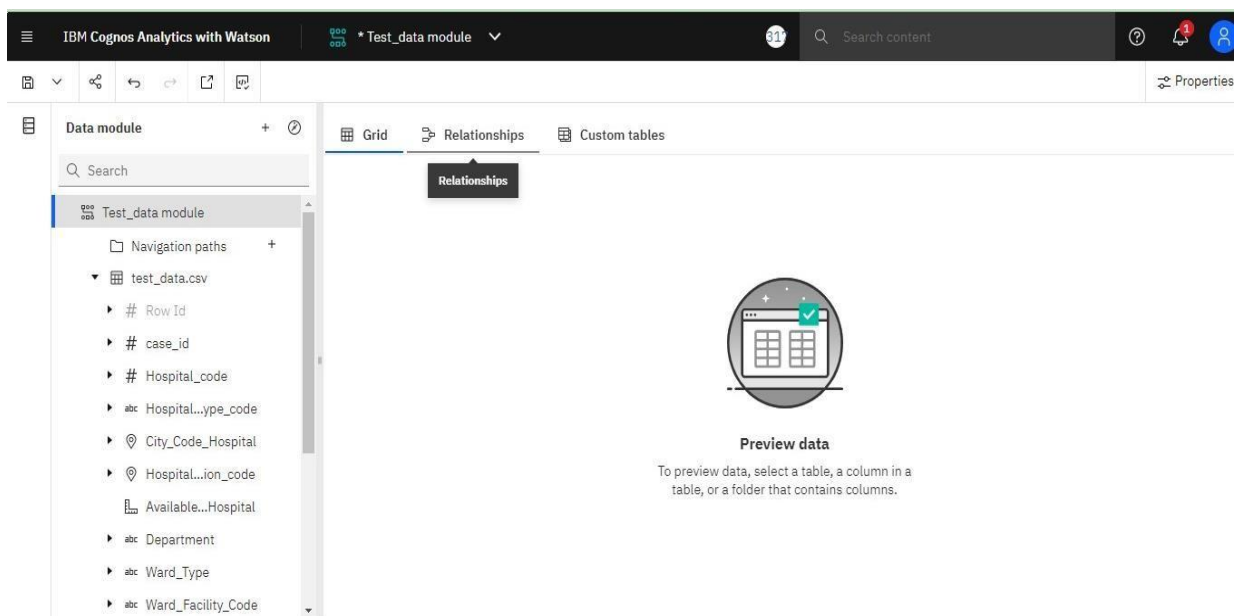
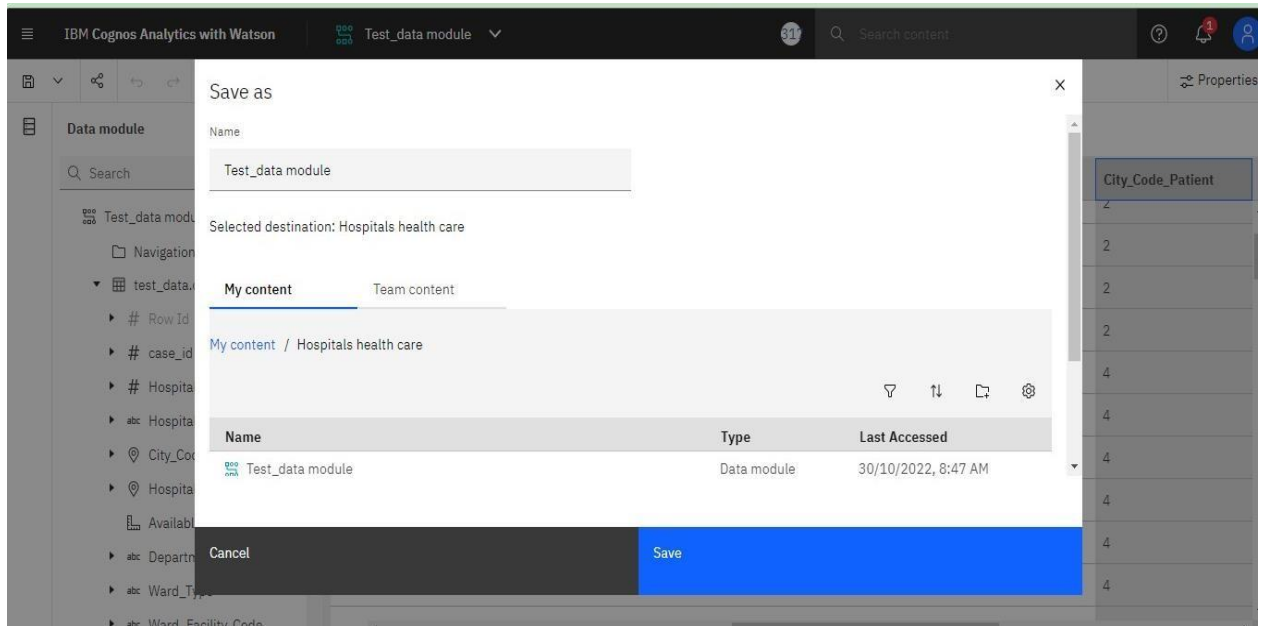
Grid Relationships Custom tables

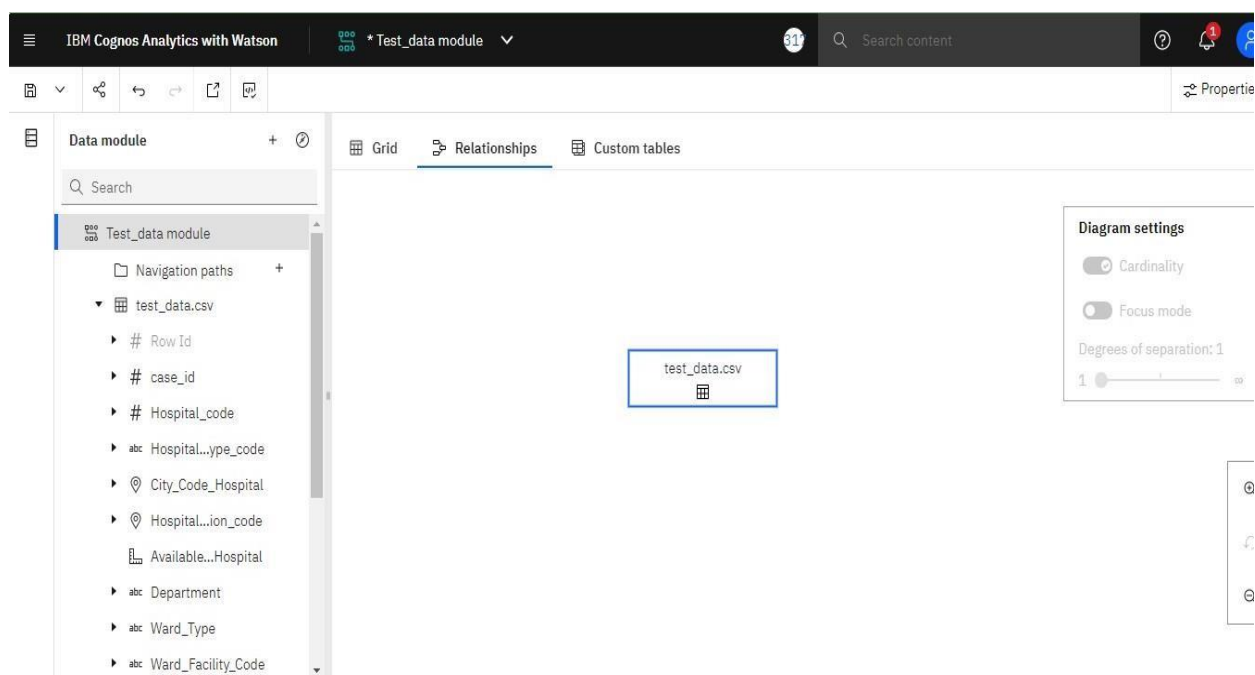
case_id	Hospital_code	Hospital_type_code	City_Code_Hospital	Hospital_region_code	Av
1	8	c	3	Z	3
2	2	c	5	Z	2
3	10	e	1	X	2
4	26	b	2	Y	2
5	26	b	2	Y	2
6	23	a	6	X	2
7	32	f	9	Y	1
8	23	a	6	X	4
9	1	d	10	Y	2
10	10	e	1	X	2

Creating The Data Module using Cognos Analytics:

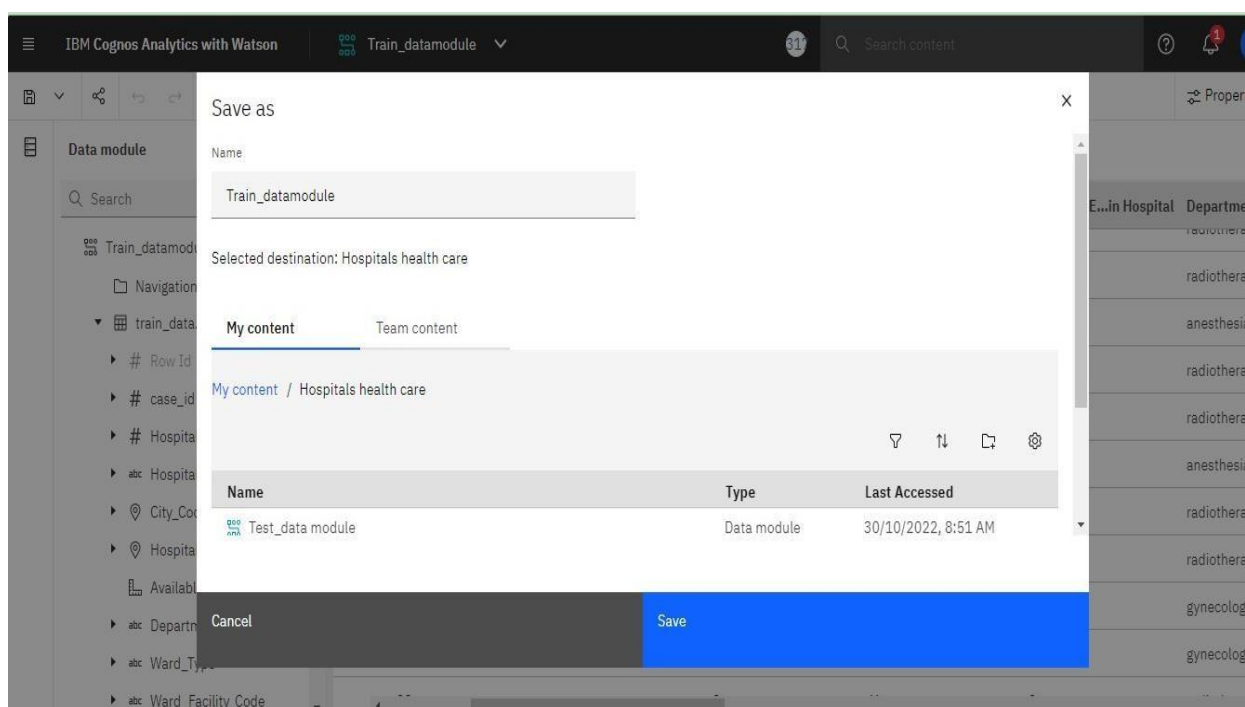
USN-3:

- 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=i62D0214C205D44E6BF7E5A3DD961130A&objRef=i62D0214C205D44E6BF7E5A3DD961130A&tid...

IBM Cognos Analytics with Watson Train_datamodule 31 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.

IBM Cognos Analytics with Watson Train_datamodule 31 Search content

Properties

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 10

