

Sprint Delivery Plan I

Date	11 November 2022
Team ID	PNT2022TMID41523
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, the header 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 the header, the main content area is titled 'Hospitals health care' and features a 'New +' button. A tabbed interface shows 'My content', 'Team content', and 'Samples', with 'My content' being the active tab. The breadcrumb path 'My content / Hospitals health care' is visible. 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 CSV	Uploaded file	30/10/2022, 3:39 AM
train_data.csv CSV	Uploaded file	30/10/2022, 3:12 AM

IBM Cognos Analytics with Watson

Content

61

Search content

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Hospitals health care

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New

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My content

Team content

Samples

My content / Hospitals health care

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<input type="checkbox"/>	Name	Type	Last Accessed
<input type="checkbox"/>	train_data.csv CSV	Uploaded file	30/10/2022, 3:12 AM

IBM Cognos Analytics with Watson

New data module

61

Search content

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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	

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, 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 columns: Ward_Facility_Code, Bed Grade, patientid, City_Code_Patient, Type of Admission, and Severity of Illness. The table contains 10 rows of data. The 'City_Code_Patient' column has values 2, 2, 2, 2, 2, Null, Null, Null, Null, and Null.

Ward_Facility_Code	Bed Grade	patientid	City_Code_Patient	Type of Admission	Severity of Illness
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

The screenshot shows the same IBM Cognos Analytics interface, but with a 'Clean - City_Code_Patient' dialog box open. The dialog box has a title bar 'Clean - City_Code_Patient' and a close button. It contains a section 'NULL values' with two options: 'Replace this value with NULL' (unchecked) and 'Replace NULL values with' (checked). The 'Replace NULL values with' option has a dropdown menu showing the value '4'. There are 'Cancel' and 'Clean' buttons at the bottom of the dialog box. The background grid view is dimmed.

Ward_Facility_Code	Bed Grade	patientid	City_Code_Patient	Type of Admission	Severity of Illness
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

The screenshot shows the IBM Cognos Analytics with Watson 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 with Watson interface. A 'Clean - City_Code_Patient' dialog box is open, allowing the user to specify how to handle NULL values. The dialog has 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 grid view of data with columns: Type of Admission, Severity of Illness, and Visitors w. The data rows show various admission types and severity levels.

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

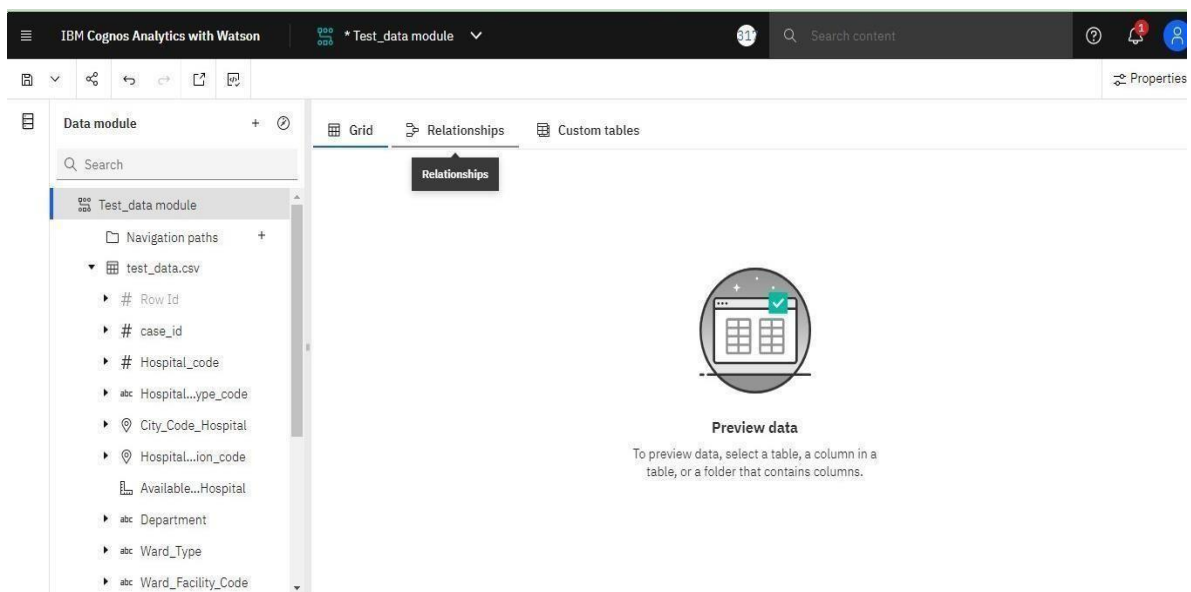
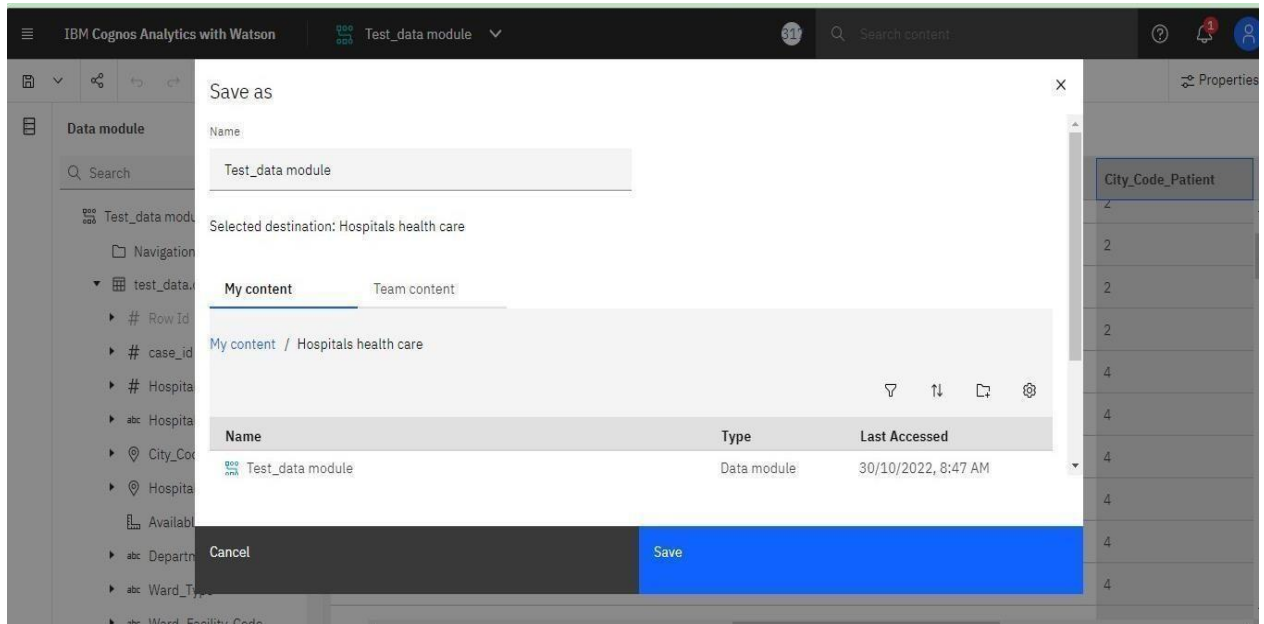
Grid

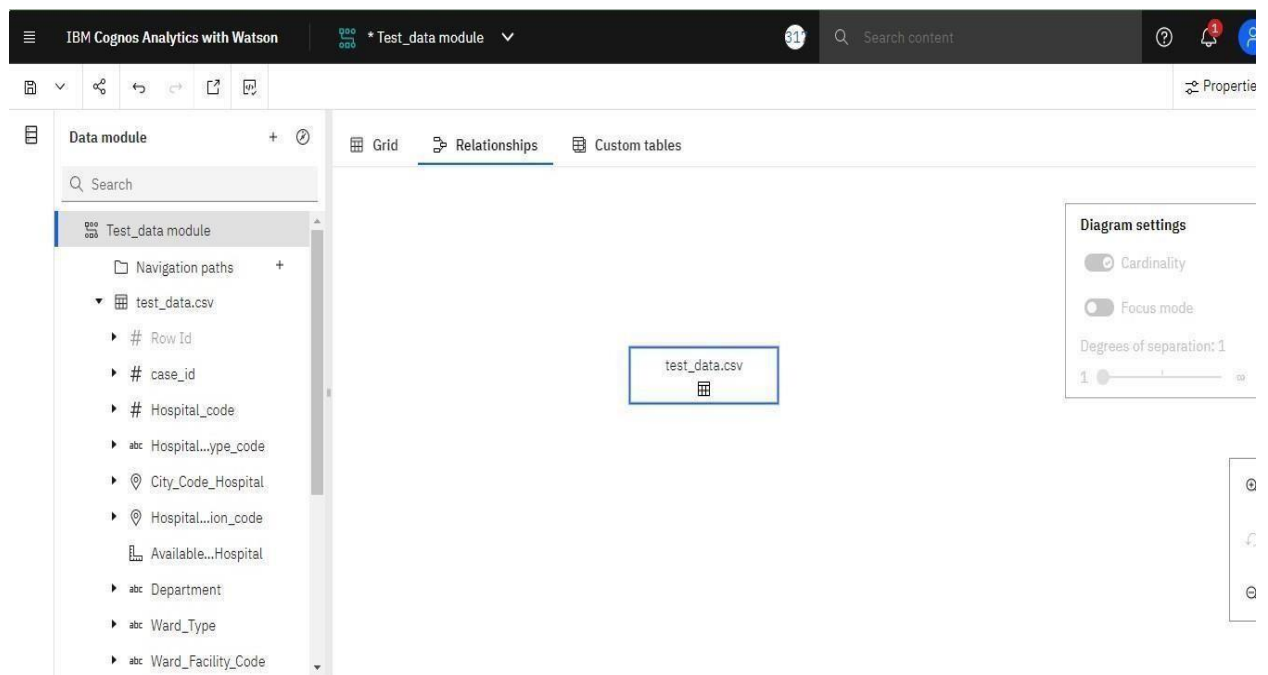
case_id	Hospital_code	Hospital_type_code	City_Code_Hospital	Hospital_region_code	Av
1	8	c	3	Z	3
2	2	c	5	Z	2
3	10	e	1	X	2
4	26	b	2	Y	2
5	26	b	2	Y	2
6	23	a	6	X	2
7	32	f	9	Y	1
8	23	a	6	X	4
9	1	d	10	Y	2
10	10	e	1	X	2

Creating The Data Module using Cognos Analytics:

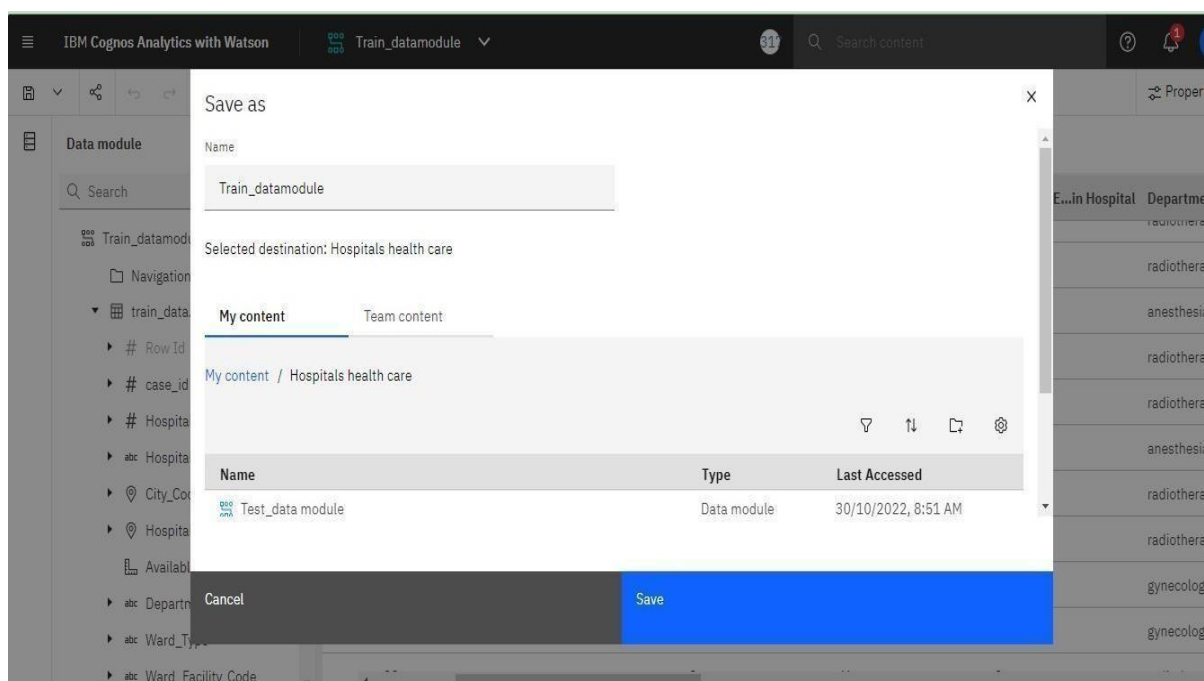
USN-3:

- 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

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

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

train_data.csv