

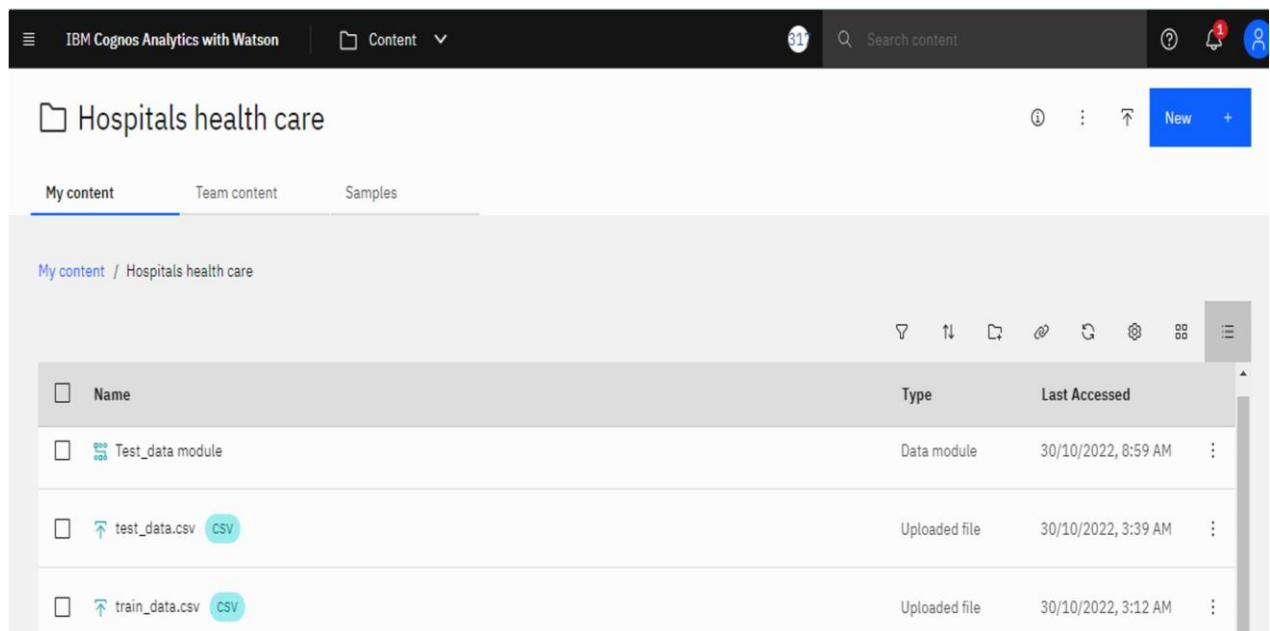
Sprint Delivery Plan I

Date	11 November 2022
Team ID	PNT2022TMID45530
Project Name	Analytics for Hospital's 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.□



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

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1

Data module

+

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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

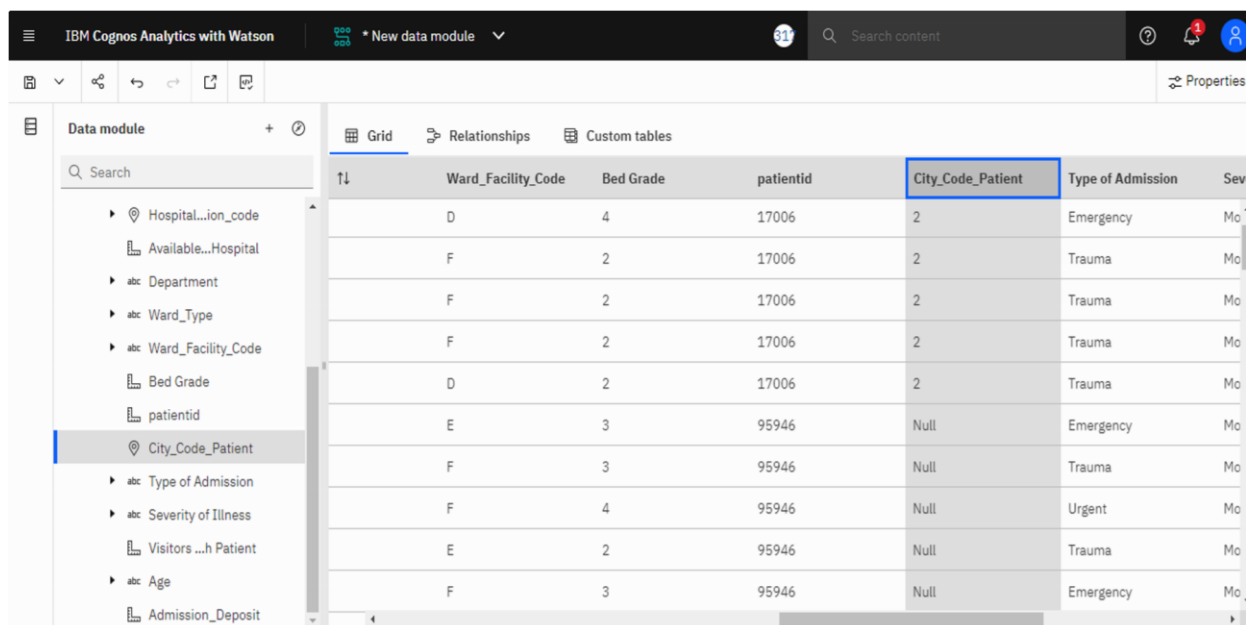
Custom tables

	case_id	Hospital_code	Hospital_type_code	City_Code_Hospital	Hospital_region_code	Av
1	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

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

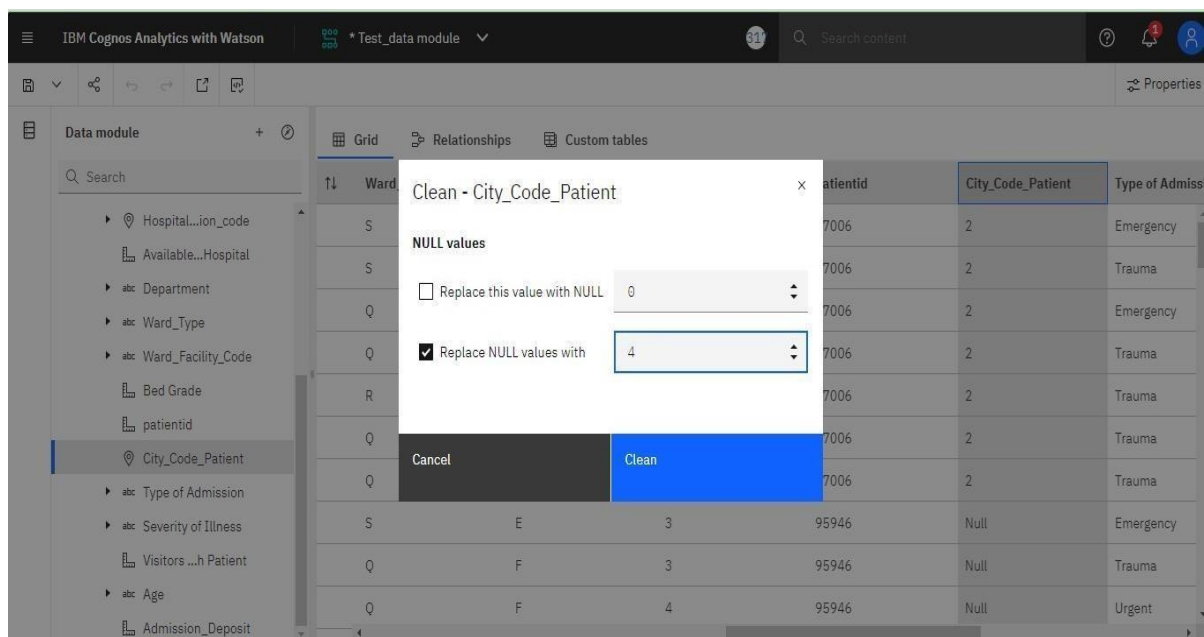
Search content

Properties

Data module

Grid Relationships Custom tables

Ward_Facility_Code	Bed Grade	patientid	City_Code_Patient	Type of Admission	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



IBM Cognos Analytics with Watson

* Test_data module

Search content

Properties

Data module

Grid Relationships Custom tables

Ward_Facility_Code	Bed Grade	patientid	City_Code_Patient	Type of Admission	Severity of Illness
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	E	3	95946	Null	Emergency
Q	F	3	95946	Null	Trauma
Q	F	4	95946	Null	Urgent

Clean - City_Code_Patient

NULL values

☐ Replace this value with NULL

☒ Replace NULL values with 4

Cancel Clean

IBM Cognos Analytics with Watson

New data module

Search content

Data module

Grid Relationships Custom tables

Search

- 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
- Admission_Deposit

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

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

IBM Cognos Analytics with Watson

New data module

Search content

Data module

Grid Relationships Custom tables

Search

- Available...Hospital
- Department
- Ward_Type
- Ward_Facility_Code
- Bed Grade
- patientid
- City_Code_Patient
- Type of Admission
- Severity of Illness
- Visitors ...h Patient
- Age
- Admission_Deposit
- Stay

Clean - City_Code_Patient

NULL values

☐ Replace this value with NULL

☒ Replace NULL values with 7

Cancel Clean

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

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 Empty string

☒ Replace NULL values with Minor

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

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

Hospital...ype_code

City_Code_Hospital

Hospital...ion_code

Available...Hospital

Department

Ward_Type

Ward_Facility_Code

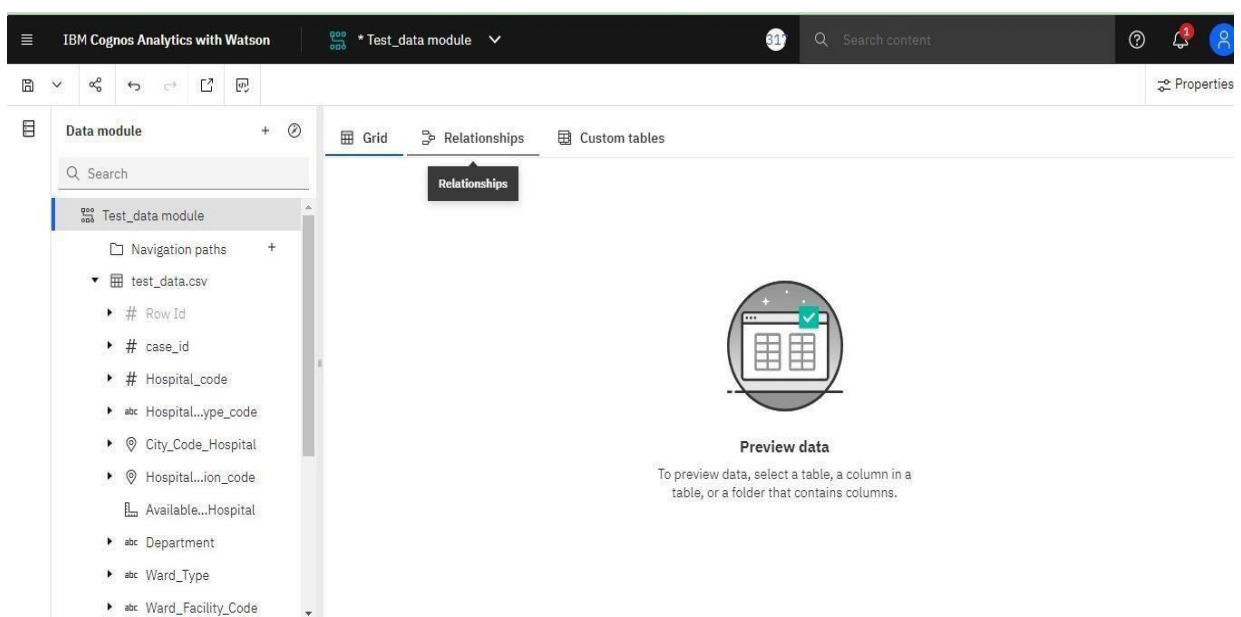
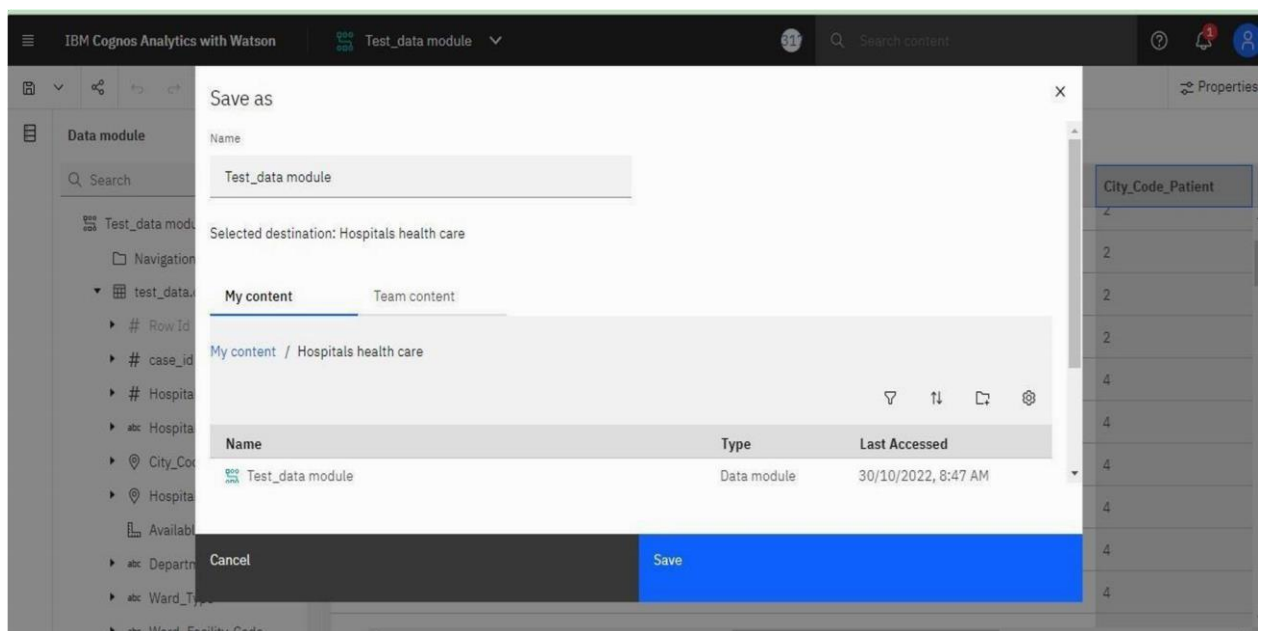
Grid Relationships Custom tables

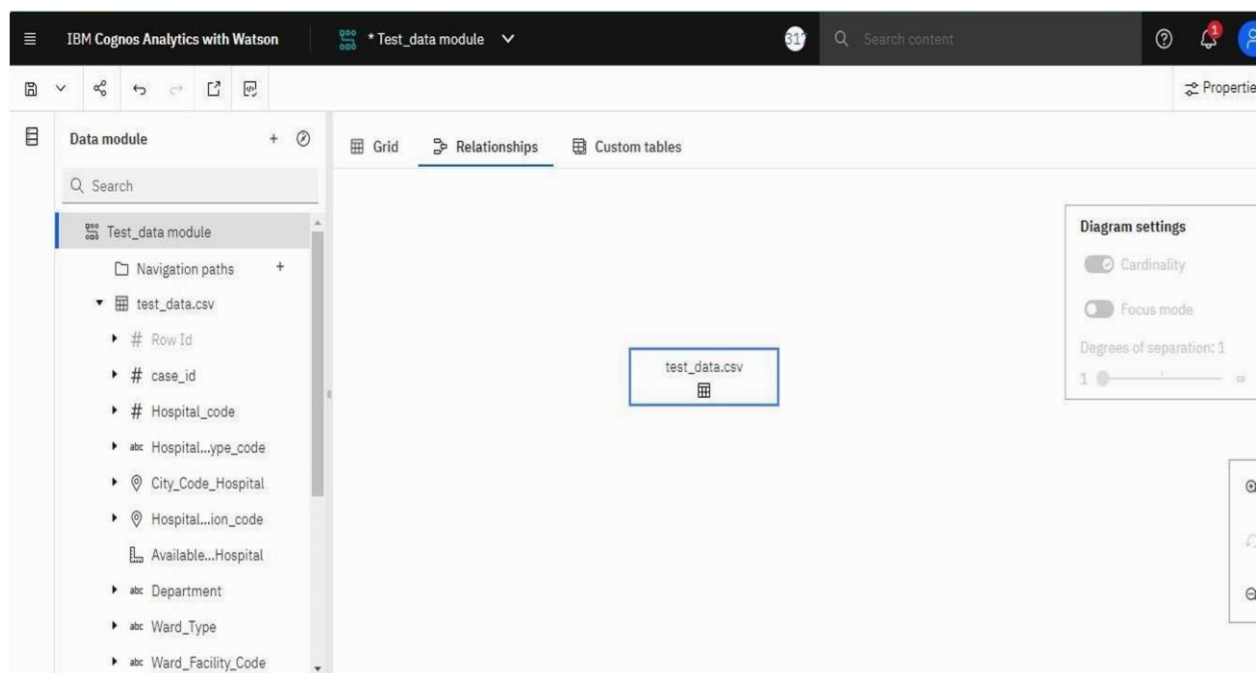
case_id	Hospital_code	Hospital_type_code	City_Code_Hospital	Hospital_region_code	Av
1	8	c	3	Z	3
2	2	c	5	Z	2
3	10	e	1	X	2
4	26	b	2	Y	2
5	26	b	2	Y	2
6	23	a	6	X	2
7	32	f	9	Y	1
8	23	a	6	X	4
9	1	d	10	Y	2
10	10	e	1	X	2

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

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

Save as

Name

Train_datamodule

Selected destination: Hospitals health care

My content Team content

My content / Hospitals health care

Name	Type	Last Accessed
Test_data module	Data module	30/10/2022, 8:51 AM

Cancel Save

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

1 100

train_data.csv