

# Sprint Delivery Plan I

Date	11 November 2022
Team ID	PNT2022TMID34052
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 web interface. At the top, there's a navigation bar with the IBM logo and a search bar. Below it, a blue banner indicates that scheduled maintenance has been completed. The main content area is divided into two tabs: 'Get started' and 'Recent'. The 'Recent' tab is active, showing a list of files and data modules. The list has columns for Name, Location, Type, and Last Accessed. The files listed are Healthcare\_Data.zip, train\_data\_dictionary.csv, sample\_sub.csv, train\_data.csv, and test\_data.csv\_dataprep. The last file, test\_data.csv\_dataprep, is highlighted in blue and labeled as a 'Data module'. The bottom of the screen shows a Windows taskbar with various application icons and a system tray indicating the date and time as 12:26 on 17-11-2022.

Name	Location	Type	Last Accessed
Healthcare_Data.zip	My content	Uploaded file	11/16/2022, 9:04 AM
train_data_dictionary.csv	My content	Uploaded file	11/16/2022, 8:51 AM
sample_sub.csv	My content	Uploaded file	11/16/2022, 8:50 AM
train_data.csv	My content	Uploaded file	11/16/2022, 8:49 AM
test_data.csv_dataprep	My content	Data module	11/15/2022, 10:45 PM

My IBM

New data module

us1.ca.analytics.ibm.com/bi/?perspective=ca-modeller&id=957208312\_8761a0a928fd4784891c734265f8d9d4\_sessionTemp&objRef=&tid=957208312\_8761a0a928fd4784891c734265f8d9d4\_...

IBM Cognos Analytics with Watson

New data module

Search content

Maintenance: Scheduled maintenance completed. Click More Info for details and to subscribe to future events

Dismiss

More info

Properties

Data module

Search

New data module

Navigation paths

test\_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

Bed Grade

patientid

City\_Code\_Patient

Grid

Relationships

Custom tables

Preview data

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

86°F Sunny

Search

ENG IN

12:27 17-11-2022

My IBM

New data module

us1.ca.analytics.ibm.com/bi/?perspective=ca-modeller&id=957208312\_8761a0a928fd4784891c734265f8d9d4\_sessionTemp&objRef=&tid=957208312\_8761a0a928fd4784891c734265f8d9d4\_...

IBM Cognos Analytics with Watson

New data module

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Navigation paths

test\_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

Bed Grade

patientid

City\_Code\_Patient

Grid

Relationships

Custom tables

Row Id	case_id	Hospital_code	Hospital_type_code	City_Code_Hospital	Hospital_region_code	Available E...in Hc
1	318439	21	c	3	Z	3
2	318440	29	a	4	X	2
3	318441	26	b	2	Y	3
4	318442	6	a	6	X	3
5	318443	28	b	11	X	2
6	318444	23	a	6	X	3
7	318445	26	b	2	Y	2
8	318446	25	e	1	X	4
9	318447	23	a	6	X	4
10	318448	23	a	6	X	3
11	318449	10	e	1	X	4
12	318450	4	a	4	X	3
13	318451	16	c	2	7	4

86°F Sunny

Search

ENG IN

12:27 17-11-2022

## 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.

The screenshot displays the IBM Cognos Analytics web interface. On the left, a 'Data module' sidebar shows a tree view of the 'test\_data.csv' dataset with columns like Row Id, case\_id, Hospital\_type\_code, City\_Code\_Hospital, Hospital\_region\_code, Available E...in Hospital, and Department. The main area shows a table view of this data. A 'Clean - Row Id' dialog box is open, allowing the user to specify how to handle null values. The dialog has two options: 'Replace this value with NULL' and 'Replace NULL values with', both with input fields set to '0'. The background table shows data for rows 1 through 13, with columns for Row Id, case\_id, Hospital\_type\_code, City\_Code\_Hospital, Hospital\_region\_code, Available E...in Hospital, and Department.

Row Id	case_id	Hospital_type_code	City_Code_Hospital	Hospital_region_code	Available E...in Hospital	Department
1				Z	3	gynecology
2				X	2	gynecology
3				Y	3	gynecology
4				X	3	gynecology
5				X	2	gynecology
6				X	3	gynecology
7				Y	2	gynecology
8				X	4	gynecology
9	318447	a	6	X	4	gynecology
10	318448	a	6	X	3	gynecology
11	318449	e	1	X	4	gynecology
12	318450	a	4	X	3	gynecology
13	318451	c	2	7	4	gynecology

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

The screenshot shows the IBM Cognos Analytics web interface. The top navigation bar includes the IBM logo and a search bar. A blue banner at the top indicates a maintenance event. The main workspace is titled 'Data module' and shows a tree view of the 'test\_data.csv' dataset. The columns listed are: Row Id, case\_id, Hospital\_code, Hospital...ype\_code, City\_Code\_Hospital, Hospital...ion\_code, Available...Hospital, Department, Ward\_Type, Ward\_Facility\_Code, Bed Grade, patientid, and City\_Code\_Patient. A 'Diagram settings' panel on the right shows options for Cardinality and Focus mode. The bottom status bar displays the system time as 13:35 on 17-11-2022.

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This screenshot shows the same IBM Cognos Analytics interface, but with a 'Data format' dialog box open. The dialog box is for the 'City\_Code\_Hospital' column and shows the 'Format type' as 'Unformatted'. It includes a message: 'By default, this data is unformatted. You can select a different format type and specify its properties.' There are buttons for 'Advanced options', 'Reset properties', 'Cancel', and 'OK'. In the background, a table of data is visible, showing columns like 'Hospital...ion\_code', 'Available E...in Hospital', and 'Department' with corresponding values.

As a user we can remove add columns and rows.filter, clean .

The screenshot displays the IBM Cognos Analytics web interface. On the left, the 'Data module' pane shows a tree view of data sources, including 'test\_data.csv' and various columns like 'Row Id', 'case\_id', 'Hospital\_type\_code', 'City\_Code\_Hospital', 'Hospital\_region\_code', 'Available E...in 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 'Available E...in Hospital' column is selected. The main area shows a 'Grid' view of the data, with columns: 'Row Id', 'case\_id', 'Hospital\_type\_code', 'City\_Code\_Hospital', 'Hospital\_region\_code', 'Available E...in Hospital', and 'Department'. A context menu is open over the 'Available E...in Hospital' column, listing actions: 'Filter...', 'Create calculation...', 'Create data group...', 'Hide from users', 'Remove', 'Format data...', 'Clean...', 'Sort descending', 'Sort ascending', and 'Properties'. The bottom of the screen shows a Windows taskbar with various application icons and a system tray indicating the time as 13:40 on 17-11-2022.

Row Id	case_id	Hospital_type_code	City_Code_Hospital	Hospital_region_code	Available E...in Hospital	Department
1	318439	c	3	Z		gynecology
2	318440	a	4	X		gynecology
3	318441	b	2	Y		gynecology
4	318442	a	6	X		gynecology
5	318443	b	11	X		gynecology
6	318444	a	6	X		gynecology
7	318445	b	2	Y		gynecology
8	318446	e	1	X		gynecology
9	318447	a	6	X	4	gynecology
10	318448	a	6	X	3	gynecology
11	318449	e	1	X	4	gynecology
12	318450	a	4	X	3	gynecology
13	318451	c	3	Z	4	gynecology
14	318452	b	11	Y	2	gynecology

## 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.

The screenshot displays the IBM Cognos Analytics web application interface. The browser address bar shows the URL: `us1.ca.analytics.ibm.com/bi/?perspective=ca-modeller&id=957208312_8653340a95594ec18a7f2e6b9bbbed955...`. The application header includes the text "IBM Cognos Analytics with Watson" and a search bar. A blue banner at the top indicates "Maintenance: Scheduled maintenance completed. Click More Info for details and to subscribe to future events".

The main workspace is titled "Data module" and contains a left-hand navigation pane with a search bar. Under "Navigation paths", the "test\_data.csv" dataset is selected, showing a list of fields: Row Id, case\_id, Hospital\_code, Hospital\_type\_code, City\_Code\_Hospital, Hospital...ion\_code, Available...Hospital, Department, Ward\_Type, Ward\_Facility\_Code, Bed Grade, patientid, and City\_Code\_Patient. The central area is labeled "Relationships" and shows a single data module "test\_data.csv" represented by a small table icon. A "Diagram settings" panel on the right includes options for "Cardinality" and "Focus mode", and a "Degrees of separation: 1" slider.

The Windows taskbar at the bottom shows the system clock as 13:35 on 17-11-2022, with weather information (80°F Cloudy) and various application icons.

- Then I will Create the data module using train\_data.csv dataset.



