

Sprint Delivery Plan I

Team ID	PNT2022TMID11641
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.

The screenshot displays the IBM Cognos Analytics web interface. The browser address bar shows the URL: `us1.ca.analytics.ibm.com/bi/?perspective=home`. The page header includes the IBM Cognos Analytics with Watson logo, a search bar, and a user profile icon. A blue banner at the top indicates that scheduled maintenance has been completed. Below the banner, there are four cards providing information about data upload, cleaning, exploration, and dashboard creation. The main content area is titled 'Recent' and shows a table of uploaded files. The table has four columns: 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 bottom of the screenshot shows a Windows taskbar with the date and time set to 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

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

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

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_...

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 - Hospital...ion_code
 - Available...Hospital
 - Department
 - Ward_Type
 - Ward_Facility_Code
 - Bed Grade
 - patientid
 - City_Code_Patient

Grid

Row Id	case_id	Hospital_code	Hospital_type_code	City_Code_Hospital	Hospital_region_code	Available E...in H
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	1

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 lists fields from the 'test_data.csv' dataset, including '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', and 'Visitors ...h Patient'. The main area shows a data grid with columns: 'Row Id', 'case_id', 'Hospital_type_code', 'City_Code_Hospital', 'Hospital_region_code', 'Available E...in Hospital', and 'Department'. A modal dialog titled 'Clean - Row Id' is open, showing 'NULL values' and two options: 'Replace this value with NULL' and 'Replace NULL values with', both with a dropdown menu set to '0'. The dialog has 'Cancel' and 'Clean' buttons. The background data grid shows rows 1 through 13, with some data visible from row 9 onwards.

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	1	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 'Maintenance: Scheduled maintenance completed. Click More Info for details and to subscribe to future events'. The main workspace is divided into three tabs: 'Grid', 'Relationships' (selected), and 'Custom tables'. On the left, a 'Data module' sidebar shows a tree view of the 'test_data.csv' dataset, listing various columns such as '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'. In the center, a diagram shows the 'test_data.csv' dataset as a single node. On the right, a 'Diagram settings' panel is visible, with options for 'Cardinality' and 'Focus mode', and a 'Degrees of separation: 1' slider. The bottom status bar shows 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 titled 'Data format' and has a close button (X) in the top right corner. It displays the column 'City_Code_Hospital' and shows the 'Format type' as 'Unformatted'. Below this, there is a message: 'By default, this data is unformatted. You can select a different format type and specify its properties.' There are two buttons at the bottom of the dialog: 'Advanced options' and 'Reset properties'. The background shows the same 'test_data.csv' dataset tree on the left and a table view on the right. The table view shows columns 'on_code', 'Available E...in Hospital', and 'Department', with data rows for 'gynecology'. The bottom status bar shows the system time as 13:38 on 17-11-2022.

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

The screenshot displays the IBM Cognos Analytics interface. On the left, the 'Data module' pane shows a tree structure for 'test_data.csv' with columns like Row Id, case_id, Hospital_type_code, City_Code_Hospital, Hospital_region_code, 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 main area shows a 'Grid' view of the data. A context menu is open over the 'Available E...in Hospital' column, with options: Filter..., Create calculation..., Create data group..., Hide from users, Remove, Format data..., Clean..., Sort descending, Sort ascending, and Properties. The data table has columns: Row Id, case_id, Hospital_type_code, City_Code_Hospital, Hospital_region_code, Available E...in Hospital, and Department. The data rows show patient information, with the last row (Row Id 14) highlighted.

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	3	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 tabs at the top include 'Welcome to Project!', 'IBM', 'My IBM', and 'New data module'. The URL bar shows a long, complex URL. The application header features the 'IBM Cognos Analytics with Watson' logo, a search bar, and a user profile icon. 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 divided into three sections: 'Data module', 'Grid', and 'Relationships'. The 'Data module' section on the left contains a search bar and a list of data sources, including 'test_data.csv'. The 'Grid' section in the center shows a single data source 'test_data.csv' represented by a small table icon. The 'Relationships' section on the right is currently empty. A 'Diagram settings' panel on the far right includes options for 'Cardinality' and 'Focus mode', and a 'Degrees of separation' slider set to 1. The bottom of the screen shows a Windows taskbar with various application icons, a search bar, and system status indicators including temperature (80°F), time (13:35), and date (17-11-2022).

- Then I will Create the data module using train_data.csv dataset.



