

# Sprint 1

Date	10 November 2022
Team ID	PNT2022TMID12687
Project Name	Visualizing and Predicting Heart Diseases with an Interactive Dashboard

## Uploading Heart disease Prediction Dataset Using Cognos Analysis: USN-1:

- As a user, I can gather the details of the patients and store the data set.
- Uploading the dataset of heart\_disease\_prediction.csv file to IBM Cognos Analytic

The screenshot displays the IBM Cognos Analytics web interface. The browser address bar shows the URL `us3.ca.analytics.ibm.com/bi/?perspective=content`. The page header includes the IBM Cognos Analytics with Watson logo, a 'Content' dropdown menu, a search bar, and user profile icons. The main content area is titled 'Content' and features tabs for 'My content', 'Team content', and 'Samples'. A 'New +' button is visible in the top right corner. Below the tabs, a table lists the content items:

Name	Type	Last Accessed
Heart Disease Dashboard 01	Dashboard	10/15/2022, 12:09 PM
Heart Disease data prep	Data module	10/15/2022, 1:48 AM
Heart_Disease_Prediction (1).csv	Uploaded file	10/15/2022, 1:44 AM
Pharma_Monthly_Sales data prep	Data module	10/14/2022, 5:20 AM
Pharma_Monthly_Sales.csv	Uploaded file	10/14/2022, 5:11 AM
Visualizind and Heart_Disease_Prediction.csv	Uploaded file	11/10/2022, 9:31 AM

The interface also includes a toolbar with various icons for file management and a 'Visualize' button. An 'Activate Windows' watermark is visible in the bottom right corner.

## Data Cleaning and Data Processing using Cognos Analytics: USN-2:

The screenshot shows the IBM Cognos Analytics interface. On the left, a 'Data module' sidebar lists various data sources, with 'Chest pain type' selected. The main area displays a data grid with columns: Row Id, BP, Cholesterol, and FBS over 120. A modal dialog titled 'Clean - Chest pain type' is open, allowing the user to specify how NULL values should be handled. The dialog has two options: 'Replace this value with NULL' (unchecked) and 'Replace NULL values with' (checked). The second option has a dropdown menu showing the value '4'. The dialog also has 'Cancel' and 'Clean' buttons.

Row Id	BP	Cholesterol	FBS over 120
1	130	322	0
2	115	564	0
3	124	261	0
4	128	263	0
5	120	269	0
6	120	177	0
7	130	256	1
8	59	1	4
9	60	1	4
10	63	0	4
11	59	1	4

The screenshot shows the IBM Cognos Analytics interface. At the top, there's a navigation bar with the IBM logo and the text "IBM Cognos Analytics with Watson". Below this, there's a search bar and a "New data module" button. The main area is divided into a left sidebar and a main content area. The sidebar contains a "Data module" section with a search bar and a list of data modules. The "Visualizations" module is selected, showing a table of data. The table has columns for "Row Id", "Age", "Sex", "Chest pain type", "BP", "Cholesterol", and "FBS over 120". The data is displayed in a grid format.

Row Id	Age	Sex	Chest pain type	BP	Cholesterol	FBS over 120
1	70	1	4	130	322	0
2	67	0	3	115	564	0
3	57	1	2	124	261	0
4	64	1	4	128	263	0
5	74	0	2	120	269	0
6	65	1	4	120	177	0
7	56	1	3	130	256	1
8	59	1	4	110	239	0
9	60	1	4	140	293	0
10	63	0	4	150	407	0
11	59	1	4	135	234	0
12	53	1	4	142	226	0

The screenshot shows the IBM Cognos Analytics interface. At the top, there's a navigation bar with the IBM logo and 'Cognos Analytics with Watson'. Below it, a search bar and a 'New data module' button are visible. A maintenance notification states: 'Maintenance: Scheduled maintenance completed. Click More Info for details and to subscribe to future events'. The main workspace is divided into a left sidebar for 'Data module' and a central area for 'Grid', 'Relationships', and 'Custom tables'. The 'Grid' view is active, displaying a table with columns: 'Number of vessels fluoro', 'Thallium', and 'Heart Disease'. A modal dialog titled 'Clean - Number of vessels fluoro' is open, allowing users to handle NULL values. The dialog has two options: 'Replace this value with NULL' (unchecked) and 'Replace NULL values with' (checked), both set to '0'. 'Cancel' and 'Clean' buttons are at the bottom of the dialog. The background table data is partially visible.

Number of vessels fluoro	Thallium	Heart Disease
3	3	Presence
0	7	Absence
0	7	Presence
1	7	Absence
1	3	Absence
0	7	Absence
1	6	Presence
1	7	Presence
2	7	Presence
3	7	Presence
0	7	Absence

### Creating The Data Module using Cognos Analytics: USN-3:

us3.ca.analytics.ibm.com/bi/?perspective=ca-modeller&id=3019265856\_e627d11108fa49d5ae6adccadc8e861c\_sessionTemp&objRef=&tid=3019265856\_e627d11108fa49d5ae6adcca...IBM Cognos Analytics with WatsonNew data module33Search contentUpdate

GridRelationshipsCustom tables

	Exercise angina	ST depression	Slope of ST	Number of vessels fluro	Thallium	Heart Disease
0	2.4	2	3	3	Presence	
0	1.6	2	0	7	Absence	
0	0.3	1	0	7	Presence	
1	0.2	2	1	7	Absence	
1	0.2	1	1	3	Absence	
0	0.4	1	0	7	Absence	
1	0.6	2	1	6	Presence	
1	1.2	2	1	7	Presence	
0	1.2	2	2	7	Presence	
0	4	2	3	7	Presence	
0	0.5	2	0	7	Absence	
1	0	1	0	7	Absence	

Visualizind...iction.csv

# Row Id

Age

Sex

Chest pain type

BP

Cholesterol

FBS over 120

EKG results

Max HR

Exercise angina

ST depression

Slope of ST

Number of...ls fluro

Thallium

Heart Disease

Activate Windows

