

Sprint Delivery I Plan

Date	28 October 2022
Team ID	PNT2022TMID50017
Project Name	Visualizing and Predicting Heart Disease with an Interactive Dashboard

Uploading Heart disease Prediction Dataset Using Cognos

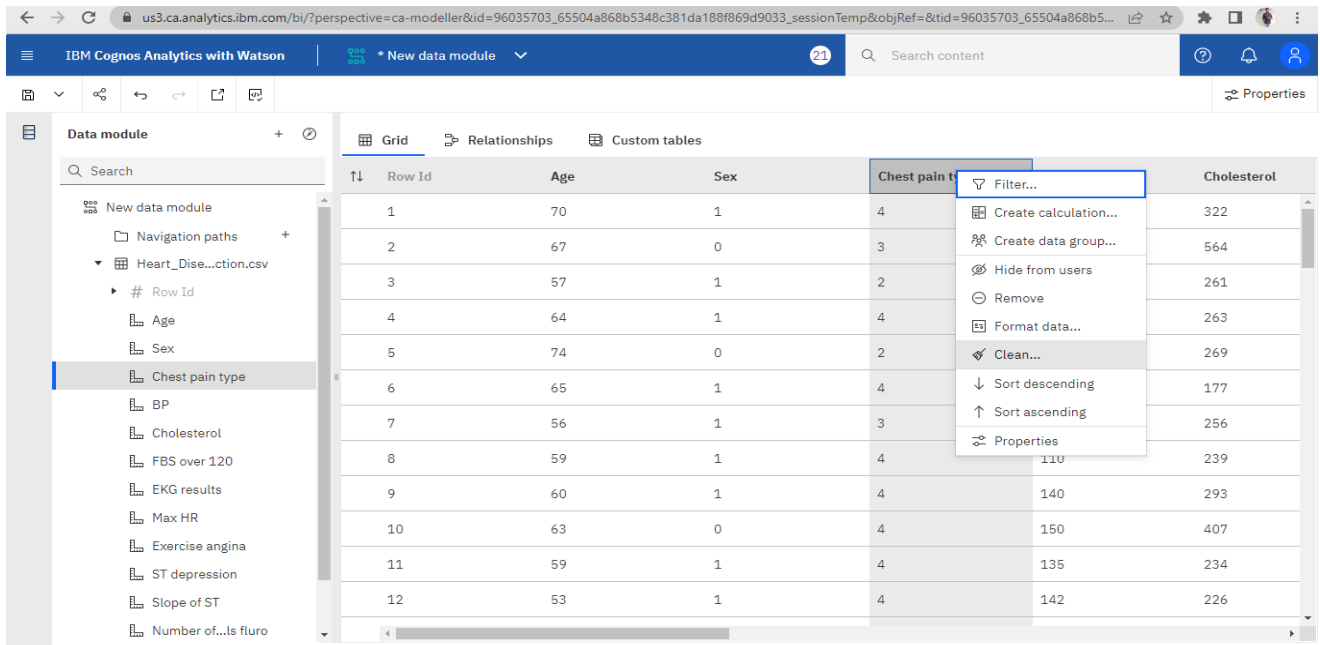
Analysis:USN-1:

- As a user, I can gather the details of the patients and storing the data set.
- Uploading the dataset of heart_disease_prediction.csv file to IBM Cognos Analytics

The screenshot displays the IBM Cognos Analytics web interface. The browser address bar shows the URL: `us3.ca.analytics.ibm.com/bi/?perspective=content&tab=myContent&folder=iB48AFB55B20144A98DE98001F734989F`. The page header includes the text "IBM Cognos Analytics with Watson" and a "Content" dropdown menu. A search bar with the placeholder "Search content" is visible. The main content area is titled "Content" and features a "New +" button. Below the title, there are tabs for "My content", "Team content", and "Samples". A blue banner at the top of the content area indicates "1 item selected". To the right of this banner are links for "More +", "Create", "Details", "Delete", and "Cancel". The content area displays two items: "Heart_Disease_Prediction_D..." and "Heart_Disease_Prediction.csv". The "Heart_Disease_Prediction.csv" item is highlighted and includes a "CSV" label and an upload icon. The "Last Accessed" date for this file is "02/11/2022, 01:07".

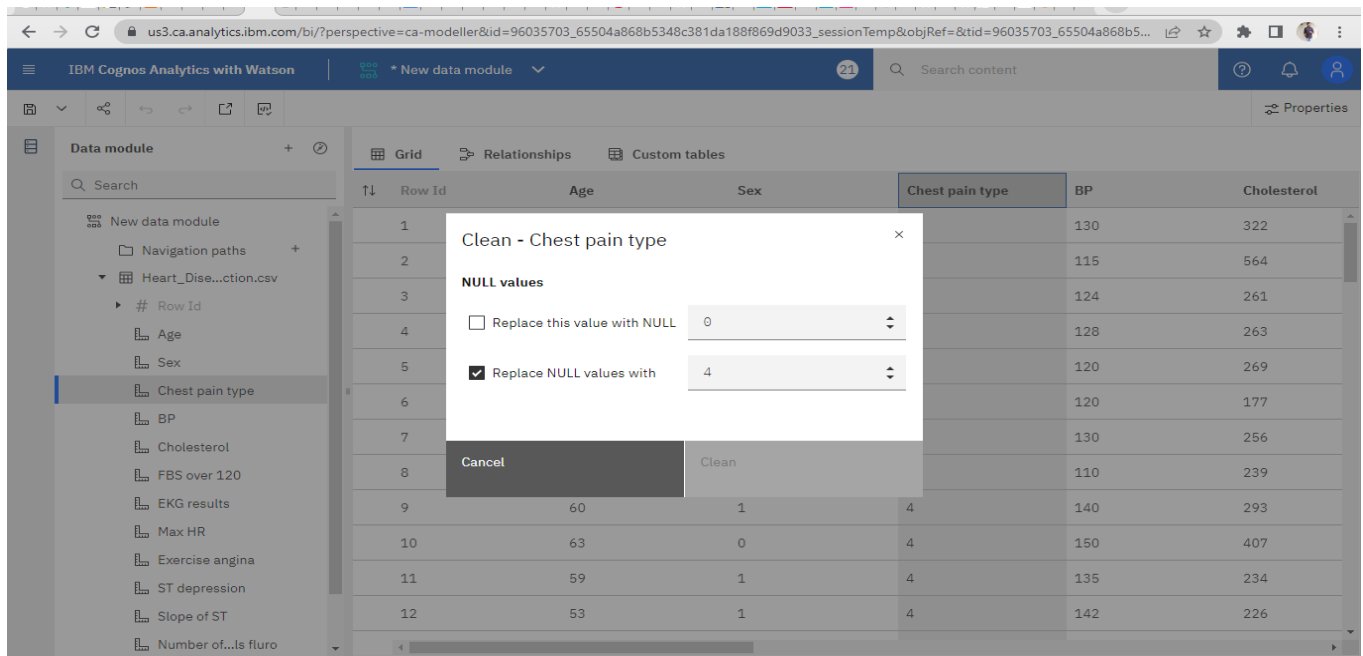
Data Cleaning and Data Processing using Cognos

Analytics: USN-2:



The screenshot shows the IBM Cognos Analytics interface. On the left, the 'Data module' pane lists fields from a 'Heart_Dise...ction.csv' file: Row Id, Age, Sex, Chest pain type, BP, Cholesterol, FBS over 120, EKG results, Max HR, Exercise angina, ST depression, Slope of ST, and Number of...ls fluoro. The main area displays a data grid with columns: Row Id, Age, Sex, Chest pain type, and Cholesterol. A context menu is open over the 'Chest pain type' column, showing options: Filter..., Create calculation..., Create data group..., Hide from users, Remove, Format data..., Clean... (highlighted), Sort descending, Sort ascending, and Properties.

Row Id	Age	Sex	Chest pain type	Cholesterol
1	70	1	4	322
2	67	0	3	564
3	57	1	2	261
4	64	1	4	263
5	74	0	2	269
6	65	1	4	177
7	56	1	3	256
8	59	1	4	239
9	60	1	4	293
10	63	0	4	407
11	59	1	4	234
12	53	1	4	226



The screenshot shows the same IBM Cognos Analytics interface, but with a 'Clean - Chest pain type' dialog box open. The dialog box has a title bar 'Clean - Chest pain type' 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'. At the bottom of the dialog are 'Cancel' and 'Clean' buttons. The background data grid is dimmed.

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

us3.ca.analytics.ibm.com/bi/?perspective=ca-modeller&id=96035703_65504a868b5348c381da188f869d9033_sessionTemp&objRef=&tid=96035703_65504a868b5...

IBM Cognos Analytics with Watson | * New data module | 21 | Search content | ? | ? | ?

Properties

Data module

Search

- Heart_Dise...ction.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 fluoro
 - Thallium
 - Heart Disease

Grid Relationships Custom tables

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

us3.ca.analytics.ibm.com/bi/?perspective=ca-modeller&id=96035703_65504a868b5348c381da188f869d9033_sessionTemp&objRef=&tid=96035703_65504a868b5...

IBM Cognos Analytics with Watson | * New data module | 21 | Search content | ? | ? | ?

Properties

Data module

Search

- Heart_Dise...ction.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 fluoro
 - Thallium
 - Heart Disease

Grid Relationships Custom tables

ults	Max HR	Exercise angina	ST depression	Slope of ST	Number of vessels fluoro	T
				2	3	
				2	0	
				1	0	
				2	1	
				1	1	
				1	0	
				2	1	
				2	1	
	170	0	1.2	2	2	
	154	0	4	2	3	
	161	0	0.5	2	0	
	111	1	0	1	0	

Clean - Number of vessels fluoro

NULL values

☐ Replace this value with NULL 0

☒ Replace NULL values with 0

Cancel Clean

us3.ca.analytics.ibm.com/bi/?perspective=ca-modeller&id=96035703_65504a868b5348c381da188f869d9033_sessionTemp&objRef=&tid=96035703_65504a868b5...

IBM Cognos Analytics with Watson

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Search content

Properties

Data module

Heart_Dise...ction.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

Grid

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

Filter...

- Create data group...
- Create navigation path...
- Split...
- Hide from users
- Remove
- Format data...
- Clean...
- Sort descending
- Sort ascending
- Properties

Heart Disease

Presence

Absence

Absence

us3.ca.analytics.ibm.com/bi/?perspective=ca-modeller&id=96035703_65504a868b5348c381da188f869d9033_sessionTemp&objRef=&tid=96035703_65504a868b5...

IBM Cognos Analytics with Watson

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Search content

Properties

Data module

Heart_Dise...ction.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

Clean - Heart Disease

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

The screenshot shows the IBM Cognos Analytics interface. On the left, a sidebar lists the data module 'Heart_Disease_prediction.csv' and its fields: 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 vessels fluro, and Thallium. The main area displays a grid view of the data with 12 rows and 6 columns: angina, ST depression, Slope of ST, Number of vessels fluro, Thallium, and Heart Disease. The 'Heart Disease' column contains 'Presence' or 'Absence' values.

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

Creating the Data module Using Cognos

Analytics USN 3

- As an Analyst, I collect Raw data and create the data module
- The data module create using Heart_Disease_prediction.csv dataset

This screenshot is identical to the one above, showing the IBM Cognos Analytics interface with the 'Heart_Disease_prediction.csv' data module. The grid view displays 12 rows of data with columns: angina, ST depression, Slope of ST, Number of vessels fluro, Thallium, and Heart Disease. The 'Heart Disease' column indicates 'Presence' or 'Absence'.

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

us3.ca.analytics.ibm.com/bi/?perspective=ca-modeller&id=96035703_65504a868b5348c381da188f869d9033_sessionTemp&objRef=&tid=96035703_65504a868b5...

IBM Cognos Analytics with Watson

New data module

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Search content

?

🔔

👤

Properties

📄

Data module

+

🕒

🔍 Search

New data module

Navigation paths

Heart_Dise...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...is fluoro

Grid

Relationships

Custom tables

Heart_Dise...iction.csv

Diagram settings

Cardinality

Focus mode

Degrees of separation: 1

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