

SPRINT 1

Date	18 November 2022
Team ID	PNT2022TMID54403
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 'Content' page. The top navigation bar includes the IBM Cognos Analytics with Watson logo, a 'Content' dropdown menu, a search bar, and user profile icons. Below the navigation bar, the 'Content' section is active, showing tabs for 'My content', 'Team content', and 'Samples'. A 'New +' button is visible in the top right corner. The main content area shows a grid of items, including '50_Startups', '50_Startups Exploration', '50_startups.csv', 'Heart Disease', 'Heart Disease Dashboard', 'Heart Disease- Exploration', 'Heart_Disease_Prediction.csv', and 'IPL Ball-by-Ball 2008-2020.csv'. Each item card displays the last accessed time and a 'CSV' icon with an upload arrow. A blue banner at the top of the grid indicates '1 item selected' and provides options for 'More +', 'Create', 'Details', 'Delete', and 'Cancel'.

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

IBM Cognos Analytics with Watson

* Heart Disease

29

Search content

Properties

Data module

Search

Heart Disease

Navigation paths

Heart_Dise... View (1)

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

Thallium

Grid

Relationships

Custom tables

Row Id	Age	Sex	Chest pain type	BP	Cholesterol	FBS over 120
1	50	1	4	130	322	0
2	59	1	4	115	564	0
3	59	1	4	124	261	0
4	63	0	4	128	263	0
5	120			120	269	0
6	120			120	177	0
7	130			130	256	1
8	110			110	239	0
9	140			140	293	0
10	63	0	4	150	407	0
11	59	1	4	135	234	0
12	53	1	4	142	226	0
13	44	1	3	140	235	0

Clean - Chest pain type

NULL values

☐ Replace this value with NULL

☒ Replace NULL values with 1

0

1

Cancel

Clean

IBM Cognos Analytics with Watson

* Heart Disease

29

Search content

Properties

Data module

Search

Heart Disease

Navigation paths

Heart_Dise... View (1)

Row Id

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Grid

Relationships

Custom tables

Row Id	Age	Sex	Chest pain type	BP	Cholesterol	FBS over 120
12	53	1	4	142	226	0
13	44	1	3	140	235	0
14	61	1	1	134	234	0
15	57	0	4	128	303	0
16	71	0	4	112	149	0
17	46	1	4	140	311	0
18	53	1	4	140	203	1
19	64	1	1	110	211	0
20	40	1	1	140	199	0
21	67	1	4	120	229	0
22	48	1	2	130	245	0
23	43	1	4	115	303	0
24	47	1	4	112	204	0

IBM Cognos Analytics with Watson | * Heart Disease

Search content

Properties

Data module

Grid Relationships Custom tables

Search

Heart_Dise... View (1)

- # 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
- Heart_Dise...ction.csv

Clean - Number of vessels fluro

NULL values

☐ Replace this value with NULL

☒ Replace NULL values with

0

0

Cancel Clean

	Exercise angina	ST depression	Slope of ST	Number of vessels fluro	Thallium	Heart Disease
1	1	1.8	2	0	3	Absence
0	1	1.4	1	0	7	Absence
0	1	2.6	2	2	7	Presence
0	0	0.2	2	0	3	Absence
0	0	1.2	2	0	3	Absence
0	0	0.1	1	0	3	Absence
1	1	0	1	1	3	Absence
0	0	0.2	1	0	3	Absence
1	1	0	2	0	3	Absence
0	0	0.6	1	0	3	Absence
0	0	2.5	2	1	7	Presence
0	0	0	1	1	3	Absence
0	0	0.4	2	1	7	Presence

IBM Cognos Analytics with Watson | * Heart Disease

Search content

Properties

Data module

Grid Relationships Custom tables

Search

Heart_Dise... View (1)

- # 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
- Heart_Dise...ction.csv

	Exercise angina	ST depression	Slope of ST	Number of vessels fluro	Thallium	Heart Disease
1	1	1.8	2	0	3	Absence
0	1	1.4	1	0	7	Absence
0	1	2.6	2	2	7	Presence
0	0	0.2	2	0	3	Absence
0	0	1.2	2	0	3	Absence
0	0	0.1	1	0	3	Absence
1	1	0	1	1	3	Absence
0	0	0.2	1	0	3	Absence
1	1	0	2	0	3	Absence
0	0	0.6	1	0	3	Absence
0	0	2.5	2	1	7	Presence
0	0	0	1	1	3	Absence
0	0	0.4	2	1	7	Presence

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

IBM Cognos Analytics with Watson

Heart Disease

29

Search content

Properties

Search

Heart Disease

Navigation paths

Heart_Dis... View (1)

Row Id

Age

Sex

Chest pain type

BP

Cholesterol

FBS over 120

EKG results

Max HR

Exercise angina

ST depression

Slope of ST

Number o...s fluro

Thallium

Grid

Relationships

Custom tables

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
13	44	1	3	140	235	0

IBM Cognos Analytics with Watson

Heart Disease

29

Search content

Properties

Search

Heart Disease

Navigation paths

Heart_Dis... View (1)

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

Thallium

Grid

Relationships

Custom tables

EKG results	Max HR	Exercise angina	ST depression	Slope of ST	Number of vessels fluro	Thallium
2	109	0	2.4	2	3	3
2	160	0	1.6	2	0	7
0	141	0	0.3	1	0	7
0	105	1	0.2	2	1	7
2	121	1	0.2	1	1	3
0	140	0	0.4	1	0	7
2	142	1	0.6	2	1	6
2	142	1	1.2	2	1	7
2	170	0	1.2	2	2	7
2	154	0	4	2	3	7
0	161	0	0.5	2	0	7
2	111	1	0	1	0	7
2	180	0	0	1	0	3