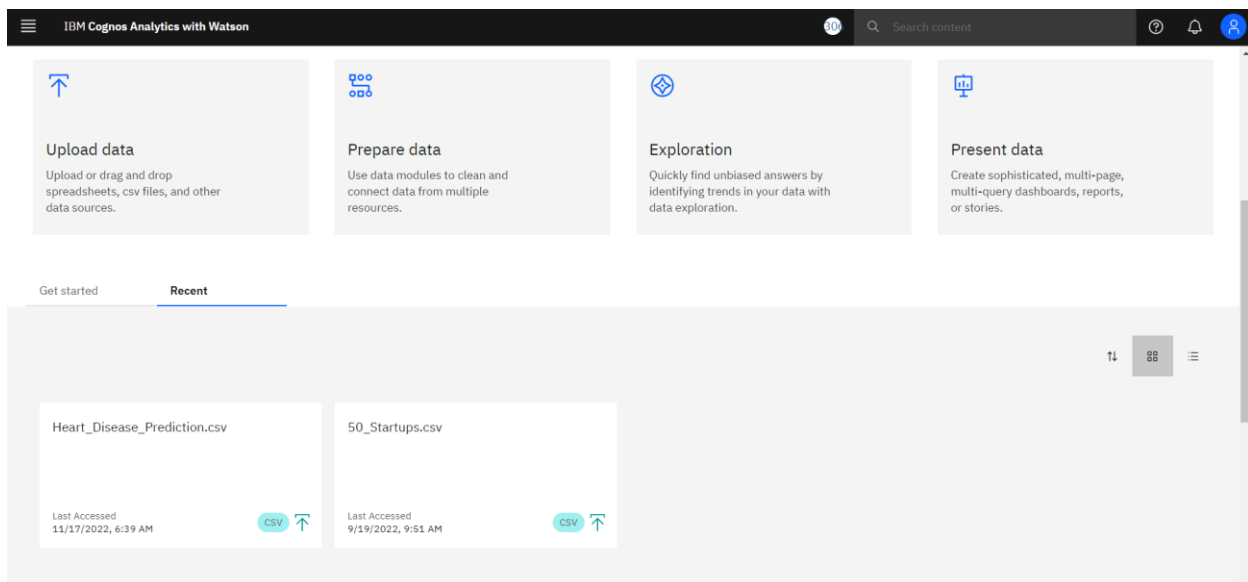


Working with Dataset

Loading and Preparation of dataset

Date	30 October 2022
Team id	PNT2022TMID21213
Project name	VISUALIZING AND PREDICTING HEART DISEASEWITH AN INTERACTIVE DASHBOARD

LOADING DATASET



PREPARATION OF DATA

AGE GROUPS

IBM Cognos Analytics with Watson

New data module

Search content

Properties

Data module

Grid Relationships Custom tables

Row Id	Age	Sex	Chest pain type	BP	Cholesterol	FBS over 120	EKG results
1	70	1	4	130	322	0	2
2	67	0	3	115	564	0	2
3	57	1	2	124	261	0	0
4	64	1	4	128	263	0	0
5	74	0	2	120	269	0	2
6	65	1	4	120	177	0	0
7	56	1	3	130	256	1	2
8	59	1	4	110	239	0	2
9	60	1	4	140	293	0	2
10	63	0	4	150	407	0	2
11	59	1	4	135	234	0	0
12	53	1	4	142	226	0	2
13	44	1	3	140	235	0	2
14	61	1	1	134	234	0	0
15	57	0	4	128	303	0	2

IBM Cognos Analytics with Watson

New data module

Search content

Properties

Data module

Grid Relationships Custom tables

Create a data group (numeric style)

Name: Age (Group)

Group names: 5

Range border values: Higher, 68, 58, 49, 39, Lower

Group NULL values as:

Create a data group (text style)

Cancel Create

IBM Cognos Analytics with Watson

New data module

Search content

Properties

Data module

Grid Relationships Custom tables

Age (Group)	Row Id	Age	Sex	Chest pain type	BP	Cholesterol	FBS over 120
68 and above	1	70	1	4	130	322	0
58 to < 68	2	67	0	3	115	564	0
49 to < 58	3	57	1	2	124	261	0
58 to < 68	4	64	1	4	128	263	0
68 and above	5	74	0	2	120	269	0
58 to < 68	6	65	1	4	120	177	0
49 to < 58	7	56	1	3	130	256	1
58 to < 68	8	59	1	4	110	239	0
58 to < 68	9	60	1	4	140	293	0
58 to < 68	10	63	0	4	150	407	0
58 to < 68	11	59	1	4	135	234	0
49 to < 58	12	53	1	4	142	226	0
39 to < 49	13	44	1	3	140	235	0
58 to < 68	14	61	1	1	134	234	0
49 to < 58	15	57	0	4	128	303	0

CHOLESTEROL USER GROUP

IBM Cognos Analytics with

Data ...dule

Search

New d...odule

Na...hs

Hea...sv

abc Ag...

Ro...d

Age

Sex

Ch...e

BP

Ch...ol

FB...0

EK...ts

Ma...R

Ex...a

ST...n

SL...ST

Nu...o

Th...m

He...e

Create a data group (numeric style)

Name

Cholesterol (Group)

Group names

Groups

4

Range border values

455 to < 564

345 to < 455

236 to < 345

126 to < 236

564

455

345

236

126

☐ Group NULL values as

Create a data group (text style)

Cancel

Create

Data ...dule

Grid

Relationships

Custom tables

Search

New ...ule

Na...s

He...v

abc C...

abc A...

R...

Age

Sex

C...

BP

C...

F...

E...

...

E...

S...

S...

N...

T...

	Cholesterol (Group)	Age (Group)	Row Id	Age	Sex	Chest pain type	BP	Cholesterol	FBS ov
	236 to < 345	68 and above	1	70	1	4	130	322	0
	564	58 to < 68	2	67	0	3	115	564	0
	236 to < 345	49 to < 58	3	57	1	2	124	261	0
	236 to < 345	58 to < 68	4	64	1	4	128	263	0
	236 to < 345	68 and above	5	74	0	2	120	269	0
	126 to < 236	58 to < 68	6	65	1	4	120	177	0
	236 to < 345	49 to < 58	7	56	1	3	130	256	1
	236 to < 345	58 to < 68	8	59	1	4	110	239	0
	236 to < 345	58 to < 68	9	60	1	4	140	293	0
	345 to < 455	58 to < 68	10	63	0	4	150	407	0
	126 to < 236	58 to < 68	11	59	1	4	135	234	0
	126 to < 236	49 to < 58	12	53	1	4	142	226	0
	126 to < 236	39 to < 49	13	44	1	3	140	235	0
	126 to < 236	58 to < 68	14	61	1	1	134	234	0
	236 to < 345	49 to < 58	15	57	0	4	128	303	0

NEW TABLE FOR AGE VS CHEST PAIN TYPE

IBM Cognos Analytics with Watson

Q&A 304 * New data module

304 Search content

Properties

Data module

Search

New data module

Navigation paths

AGE VS CHEST PAIN TYPE

Age (Group)

Age

Sex

Chest pain type

Heart_Disease_Prediction.csv

Cholesterol (Group)

Age (Group)

Row Id

Age

Sex

Chest pain type

BP

Cholesterol

FBS over 120

EKG results

Max HR

Grid Relationships Custom tables

Age (Group)	Age	Sex	Chest pain type
68 and above	70	1	4
58 to < 68	67	0	3
49 to < 58	57	1	2
58 to < 68	64	1	4
68 and above	74	0	2
58 to < 68	65	1	4
49 to < 58	56	1	3
58 to < 68	59	1	4
58 to < 68	60	1	4
58 to < 68	63	0	4
58 to < 68	59	1	4
49 to < 58	53	1	4
39 to < 49	44	1	3
58 to < 68	61	1	1
49 to < 58	57	0	4

TABLE FOR MAX HR VS CHEST PAIN

IBM Cognos Analytics with Watson

Q&A 304 * New data module

304 Search content

Properties

Data module

Search

New data module

Navigation paths

HR VS CHEST PAIN

Max HR (Group)

Chest pain type

Max HR

AGE VS CHEST PAIN TYPE

Age

Sex

Chest pain type

Heart_Disease_Prediction.csv

Grid Relationships Custom tables

Max HR (Group)	Chest pain type	Max HR
104 to < 137	4	109
137 to < 170	3	160
137 to < 170	2	141
104 to < 137	4	105
104 to < 137	2	121
137 to < 170	4	140
137 to < 170	3	142
137 to < 170	4	142
170 and above	4	170
137 to < 170	4	154
137 to < 170	4	161
104 to < 137	4	111
170 and above	3	180
137 to < 170	1	145
137 to < 170	4	159

TABLE FOR BP VS AGE

IBM Cognos Analytics with Watson

New data module

30

Search content

Properties

Data module

Search

New data module

Navigation paths

BP VS AGE

abc BP (Group)

Age

BP

HR VS CHEST PAIN

abc Max HR (Group)

Chest pain type

Max HR

AGE VS CHEST PAIN TYPE

Age

Sex

Chest pain type

Heart_Disease_Prediction.csv

Grid

Relationships

Custom tables

	BP (Group)	Age	BP
	121 to < 147	70	130
	less than 121	67	115
	121 to < 147	57	124
	121 to < 147	64	128
	less than 121	74	120
	less than 121	65	120
	121 to < 147	56	130
	less than 121	59	110
	121 to < 147	60	140
	147 to < 174	63	150
	121 to < 147	59	135
	121 to < 147	53	142
	121 to < 147	44	140
	121 to < 147	61	134
	121 to < 147	57	128

TABLE FOR MAX HR VS EXISTING HEART DISEASE

IBM Cognos Analytics with Watson

New data module

30

Search content

Properties

Data module

Search

New data module

Navigation paths

MAX HR VS HEART DISEASE

Max HR (Group)

Max HR

Heart Disease

BP VS AGE

BP (Group)

Age

BP

HR VS CHEST PAIN

Max HR (Group)

Chest pain type

Max HR

AGE VS CHEST PAIN TYPE

Age

Sex

Chest pain type

Heart_Disease_Prediction.csv

Grid

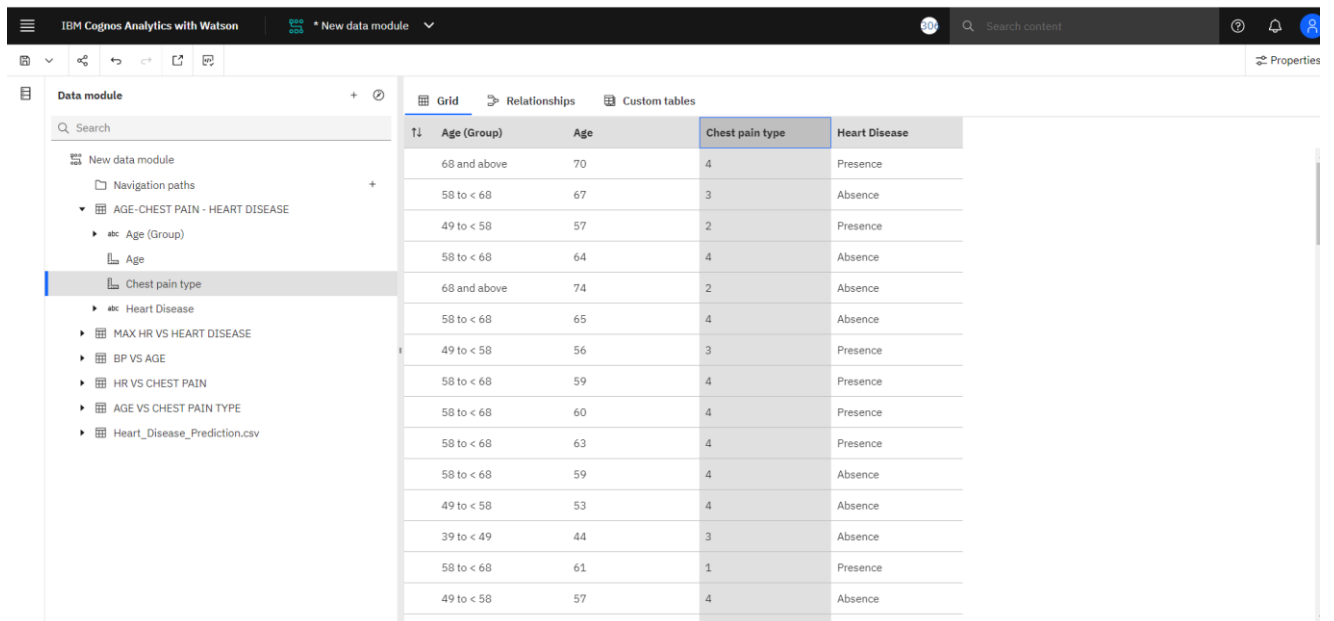
Relationships

Custom tables

Max HR (Group)	Max HR	Heart Disease
104 to < 137	109	Presence
137 to < 170	160	Absence
137 to < 170	141	Presence
104 to < 137	105	Absence
104 to < 137	121	Absence
137 to < 170	140	Absence
137 to < 170	142	Presence
137 to < 170	142	Presence
170 and above	170	Presence
137 to < 170	154	Presence
137 to < 170	161	Absence
104 to < 137	111	Absence
170 and above	180	Absence
137 to < 170	145	Presence
137 to < 170	159	Absence

TABLE FOR AGE – CHEST PAIN VS EXISTING HEART

DISEASE



The screenshot shows the IBM Cognos Analytics interface with a data table titled 'DISEASE'. The table has four columns: 'Age (Group)', 'Age', 'Chest pain type', and 'Heart Disease'. The data is organized into rows, with some rows highlighted in grey. The left sidebar shows a navigation tree with 'AGE-CHEST PAIN - HEART DISEASE' selected. The top bar indicates 'New data module'.

Age (Group)	Age	Chest pain type	Heart Disease
68 and above	70	4	Presence
58 to < 68	67	3	Absence
49 to < 58	57	2	Presence
58 to < 68	64	4	Absence
68 and above	74	2	Absence
58 to < 68	65	4	Absence
49 to < 58	56	3	Presence
58 to < 68	59	4	Presence
58 to < 68	60	4	Presence
58 to < 68	63	4	Presence
58 to < 68	59	4	Absence
49 to < 58	53	4	Absence
39 to < 49	44	3	Absence
58 to < 68	61	1	Presence
49 to < 58	57	4	Absence

OVERALL DATASET

