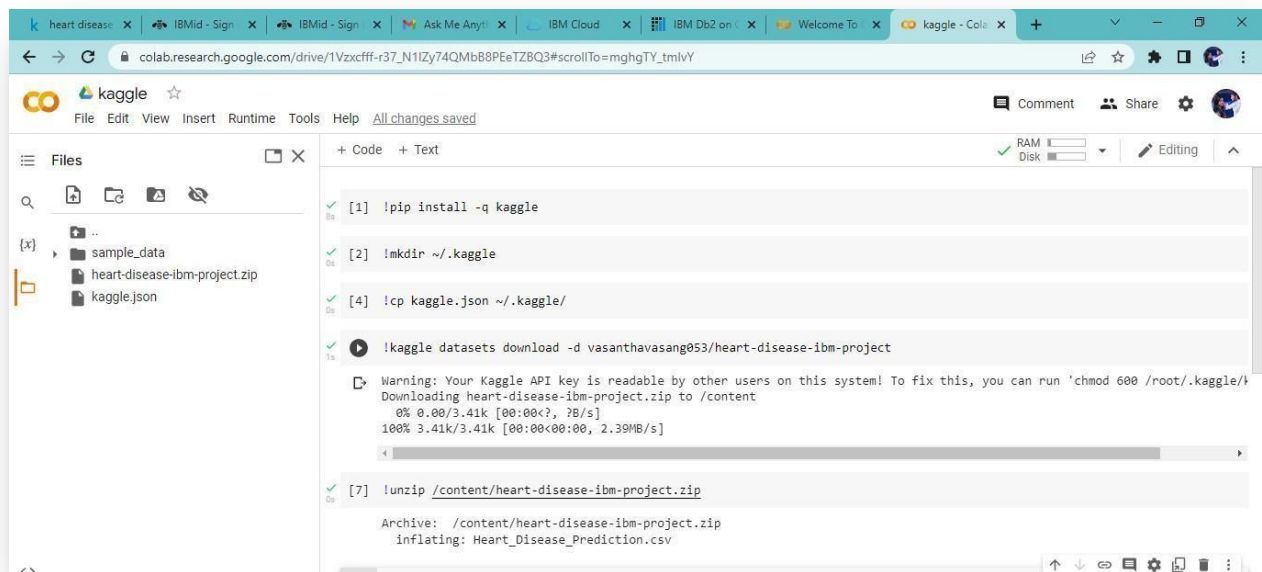


# Working with Dataset

Date	05 November 2022
Team ID	PNT2022TMID30384
Project Name	Visualizing And Predicting Heart Diseases with An Interactive Dash Board

## Loading and Understanding the Dataset



The screenshot shows a Google Colab notebook interface. The left sidebar displays the file explorer with a folder named 'sample\_data' containing 'heart-disease-ibm-project.zip' and 'kaggle.json'. The main area shows a code cell with the following commands:

```
[1] !pip install -q kaggle
[2] !mkdir ~/.kaggle
[4] !cp kaggle.json ~/.kaggle/
[5] !kaggle datasets download -d vasanthavasang053/heart-disease-ibm-project
Warning: Your Kaggle API key is readable by other users on this system! To fix this, you can run 'chmod 600 /root/.kaggle/'
Downloading heart-disease-ibm-project.zip to /content
0% 0.00/3.41k [00:00<?, ?B/s]
100% 3.41k/3.41k [00:00<00:00, 2.39MB/s]
[7] !unzip /content/heart-disease-ibm-project.zip
Archive: /content/heart-disease-ibm-project.zip
  inflating: Heart_Disease_Prediction.csv
```

The screenshot displays the IBM Db2 on Cloud console interface. At the top, there's a navigation bar with tabs for 'Load Data', 'Load History', 'Tables' (selected), 'Views', 'Indexes', 'Aliases', 'MQTs', 'Sequences', and 'Application objects'. Below this is a search bar labeled 'Find schemas or tables' and a 'Refresh' button. The main content area is divided into two panels. The left panel, titled 'Schemas', contains a table with columns 'Name', 'Type', and 'Tables'. It lists one schema: 'VWV93038' of type 'User' with 1 table. The right panel, titled 'Tables', contains a table with columns 'Name', 'Schema', and 'Properties'. It lists one table: 'HEART' within the 'VWV93038' schema. Both panels show a status bar at the bottom indicating 'Total: 1, selected: 1' for schemas and 'Total: 1, selected: 0' for tables. The bottom of the image shows a Windows taskbar with various application icons and system information like 'Desktop', '31°C', and '14:37 05-11-2022'.

## Successfully connected IBM Cloud Db2 to Cognos Analytics

Home Service Details - IBM Cloud IBM Db2 on Cloud us3.ca.analytics.ibm.com/bi/?perspective=home

IBM Cognos Analytics with Watson

Data server connections

Name	Modified
Weather Company	3/31/2022 10:38 PM
db2 database1	11/4/2022 12:12 AM

db2 database1

Owner: VASAN ... 206bd2 Created: 11/4/2022, 12:12 AM Modified: 11/4/2022, 12:12 AM Type: Data Server

General Connections Permissions

Name	Modified
db2 database1	11/4/2022 12:12 AM

db2 database1

Owner: VASAN ... 206bd2 Created: 11/4/2022, 12:12 AM Modified: 11/4/2022, 12:12 AM Type: Connection

General Settings Schemas Permissions

Status	Schema name	Tables loaded
<input type="radio"/>	AUDIT	
<input type="radio"/>	DB2INST1	
<input type="radio"/>	ERRORSCHEMA	
<input type="radio"/>	SQLI0396	
<input type="radio"/>	SQLI37109	
<input checked="" type="radio"/>	VWV93038	1/1

Show system schemas

ted, multi-page, boards, reports, or

Type here to search Desktop 31°C ENG 04-11-2022 13:46

Search results - vas1062001@ My IBM Heart disease data module WORKING WITH DATASE1.pdf

us3.ca.analytics.ibm.com/bi/?perspective=ca-modeler&id=IFFA1043595BA4C039945065494B21E89&objRef=IFFA1043595BA4C039945065494B21E89&tid=28...

IBM Cognos Analytics with Watson Heart disease data module

Data module

Heart disease data module

Navigation paths

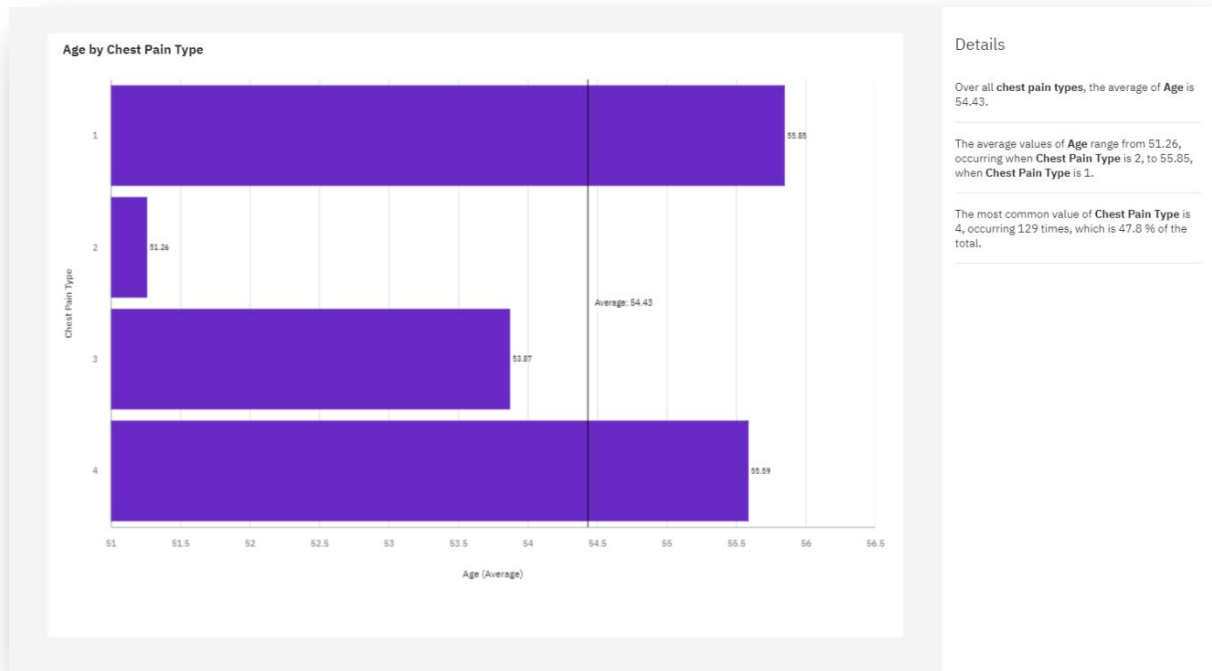
- Heart
  - Age
  - Sex
  - Chest Pain Type
  - Bp
  - Cholesterol
  - Fbs Over 120
  - EKG Results
  - Max Hr
  - Exercise Angina
  - St Depression
  - Slope Of St
  - Number Of ...els Fluro
  - Thallium
  - Heart Disease

Grid Relationships Custom tables

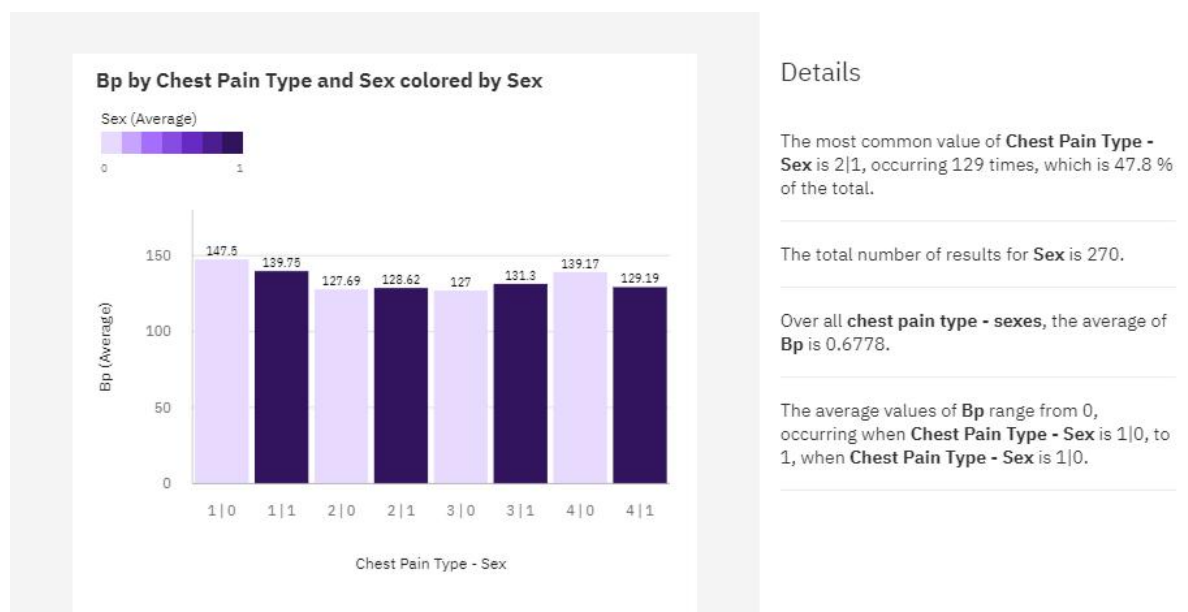
Id	Age	Sex	Chest Pain Type	Bp	Cholesterol	Fbs Over 120	EKG Results	Max Hr
70		1	4	130	322	0	2	109
67		0	3	115	564	0	2	160
57		1	2	124	261	0	0	141
64		1	4	128	263	0	0	105
74		0	2	120	269	0	2	121
65		1	4	120	177	0	0	140
56		1	3	130	256	1	2	142
59		1	4	110	239	0	2	142
60		1	4	140	293	0	2	170
63		0	4	150	407	0	2	154
59		1	4	135	234	0	0	161
53		1	4	142	226	0	2	111
44		1	3	140	235	0	2	180
61		1	1	134	234	0	0	145
57		0	4	128	303	0	2	159

Type here to search Desktop 31°C ENG 05-11-2022 15:08

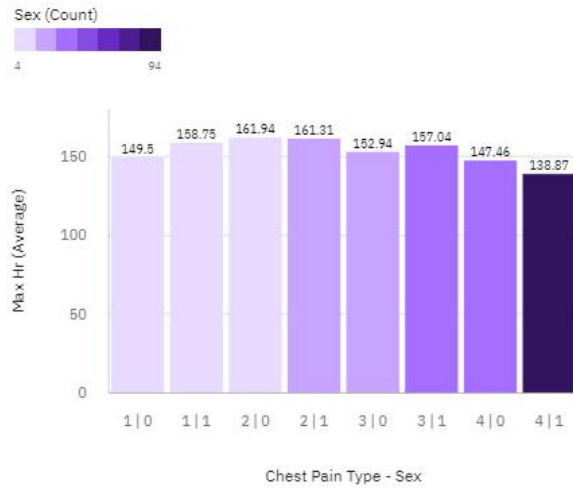
## Data Preparation (Data Module) Exploration of Data: Age by Chest pain type



## Exploration of Bp vs Chest pain type and Gender



Max Hr by Chest Pain Type and Sex colored by Sex



## Fields

Bars

# Chest Pain Type

# Sex

Click or drag data here

# Length\* Required field

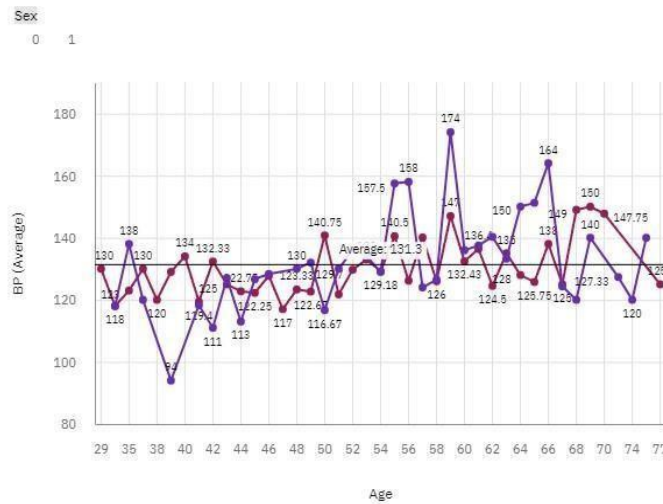
# Max Hr

Click or drag data here

# y-start

Click or drag data here

BP by Age colored by Sex



## Details

The most common values of **Age** are 54 (5.9 %) and 58 (5.6 %), together occurring 31 times, which is 11.5 % of the total.

**BP** is unusually high when **Age** is 59.

The most common value of **Sex** is 1, occurring 183 times, which is 67.8 % of the total.

Over all **ages** and **sexes**, the average of **BP** is 131.3.

The average values of **BP** range from 94 to 174.

# Exploration of Cholesterol by Age and Gender

