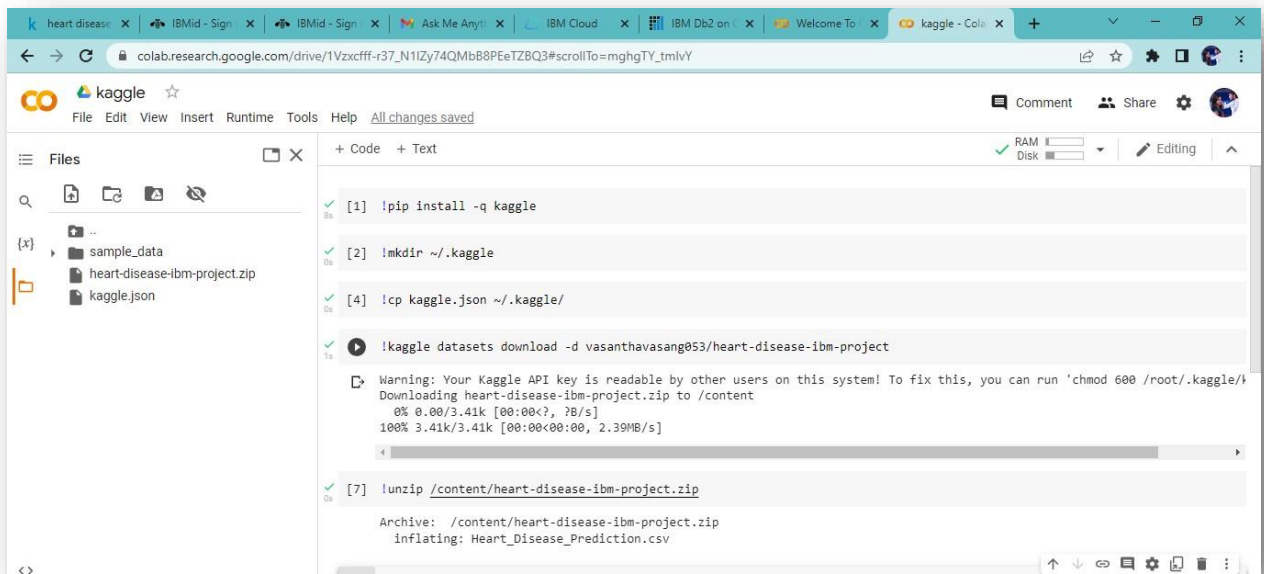


Working with Dataset

Date	05 November 2022
Team ID	PNT2022TMID01556
Project Name	Visualizing And Predicting Heart Diseases with An Interactive Dash Board

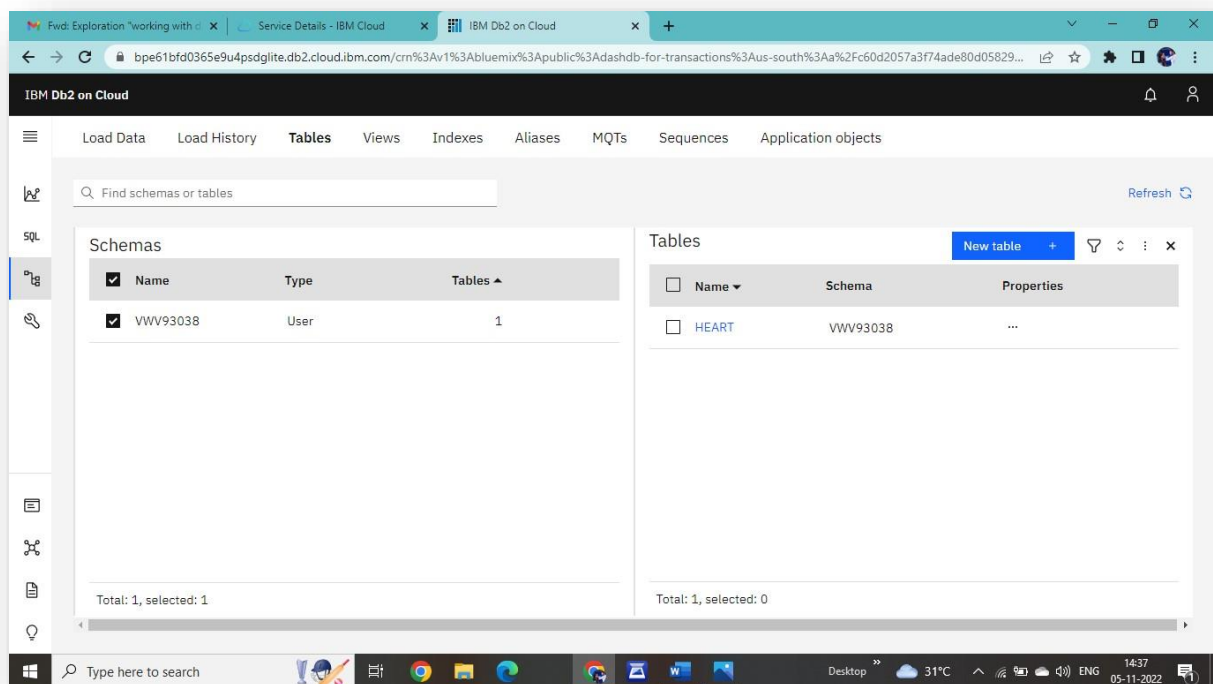
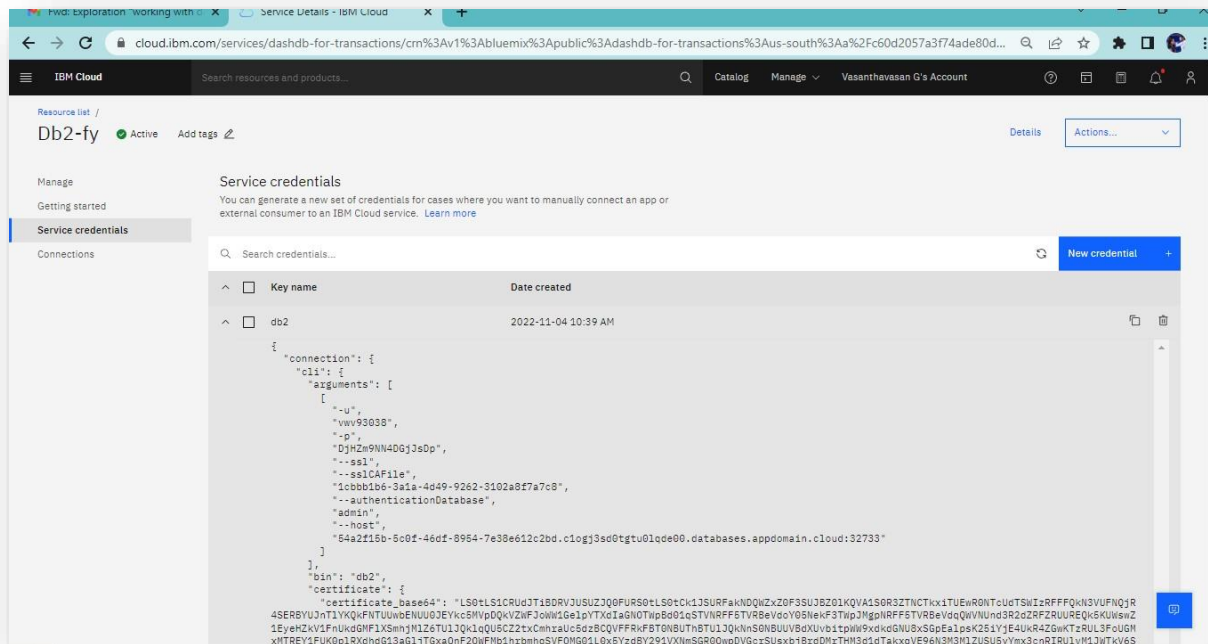
Loading and Understanding the Dataset



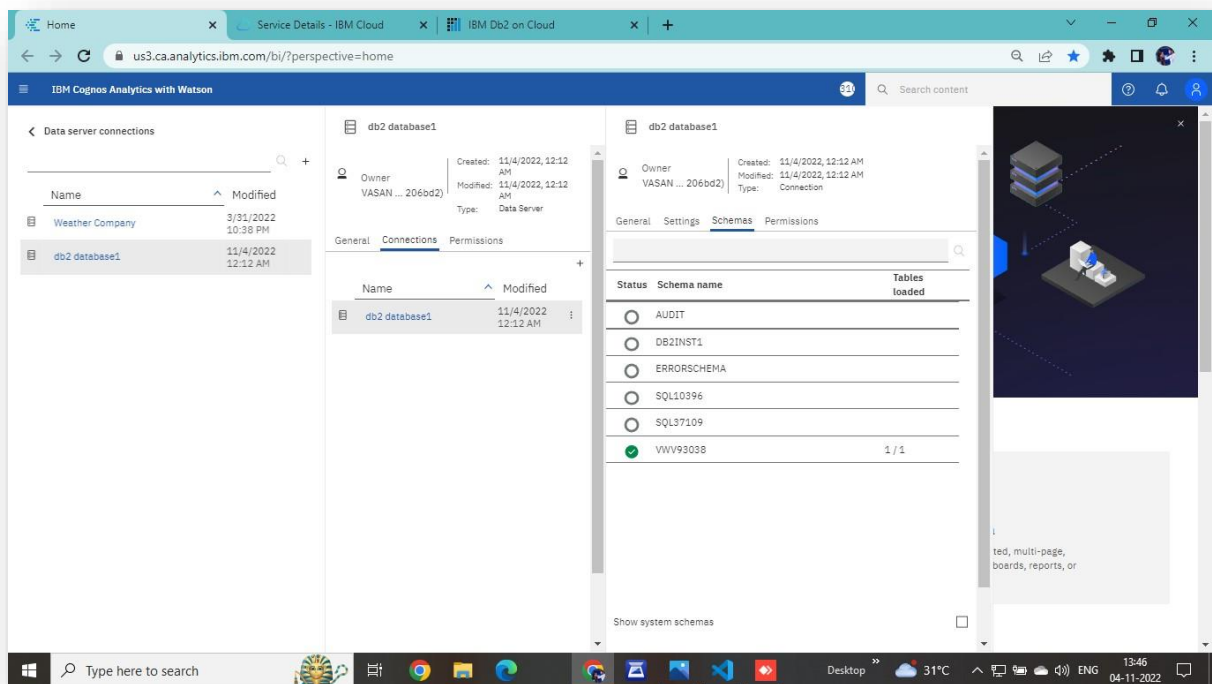
The screenshot shows a Google Colab notebook interface. The left sidebar displays the file explorer with a folder named 'sample_data' containing 'heart-disease-ibm-project.zip' and 'kaggle.json'. The main area shows a code cell with the following commands:

```
[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/k
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
```

Successfully created Db2 Service Credential



Successfully connected IBM Cloud Db2 to Cognos Analytics



Data Preparation (Data Module)

Search results - vasi1062001@g... x My IBM x Heart disease data module x WORKING WITH DATA1.pdf x +

us3.ca.analytics.ibm.com/bi/?perspective=ca-modeller&id=iffA1043595BA4C039945065494821E89&objRef=iffA1043595BA4C039945065494821E89&tid=28... 🔍 ⚙️ 📄 🌐 🛠️ ⌵

IBM Cognos Analytics with Watson | Heart disease data module 🔍 Search content ⓘ 🔔 👤

📄 ⌵ 🔍 ⌵ 📄 📄 📄

Properties

Data module + ⓘ

🔍 Search

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

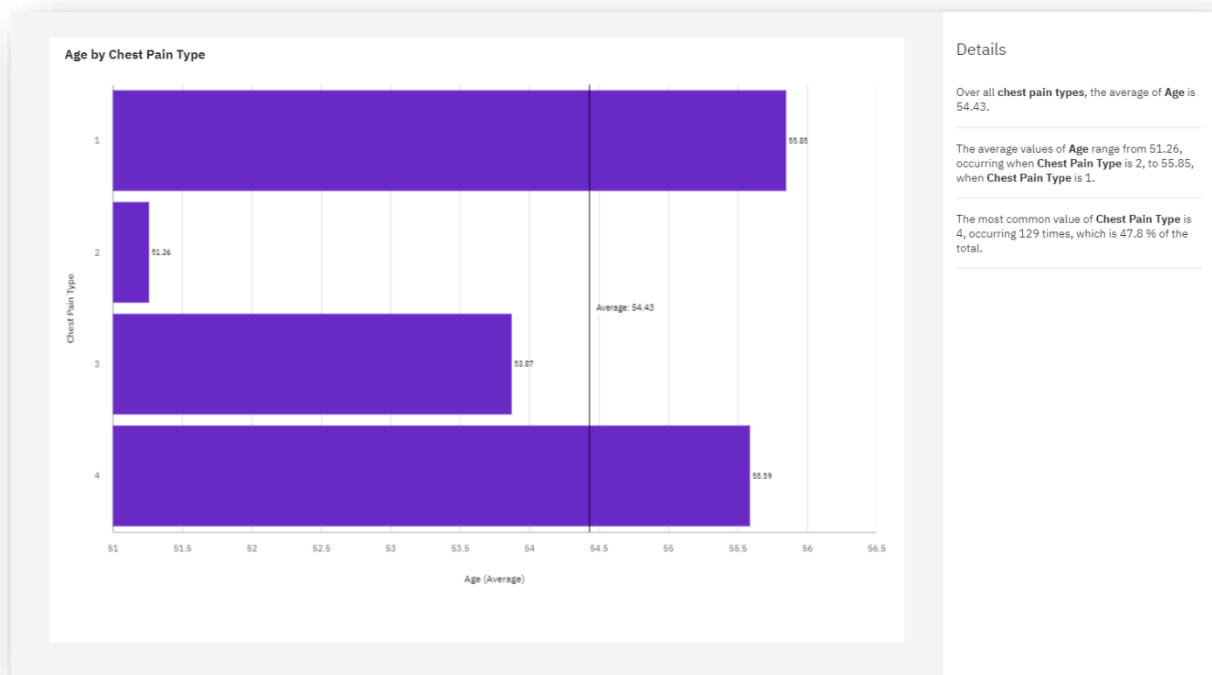
📄 Grid 🔗 Relationships 📄 Custom tables

T1	Age	Sex	Chest Pain Type	Bp	Cholesterol	Fbs Over 120	EKG Results	Max Hr
70	1	1	4	130	322	0	2	109
67	0	0	3	115	564	0	2	160
57	1	1	2	124	261	0	0	141
64	1	1	4	128	263	0	0	105
74	0	0	2	120	269	0	2	121
65	1	1	4	120	177	0	0	140
56	1	1	3	130	256	1	2	142
59	1	1	4	110	239	0	2	142
60	1	1	4	140	293	0	2	170
63	0	0	4	160	407	0	2	154
59	1	1	4	135	234	0	0	161
53	1	1	4	142	226	0	2	111
44	1	1	3	140	235	0	2	180
61	1	1	1	134	234	0	0	145
57	0	0	4	128	303	0	2	159

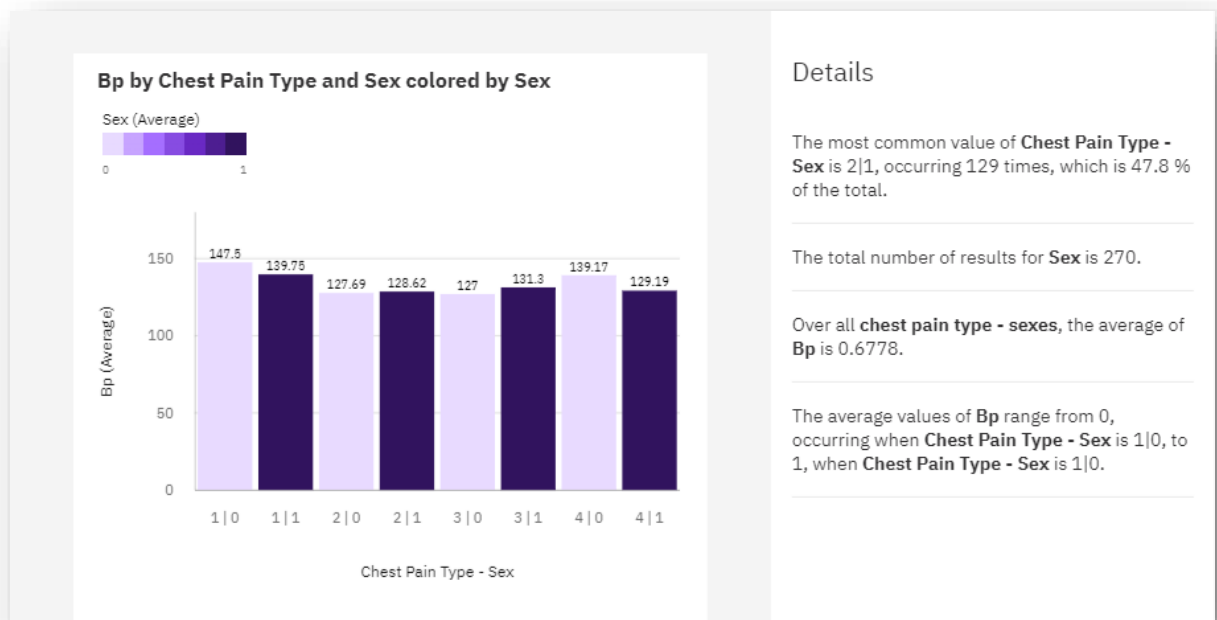
🔍 🔍

Exploration of Data:

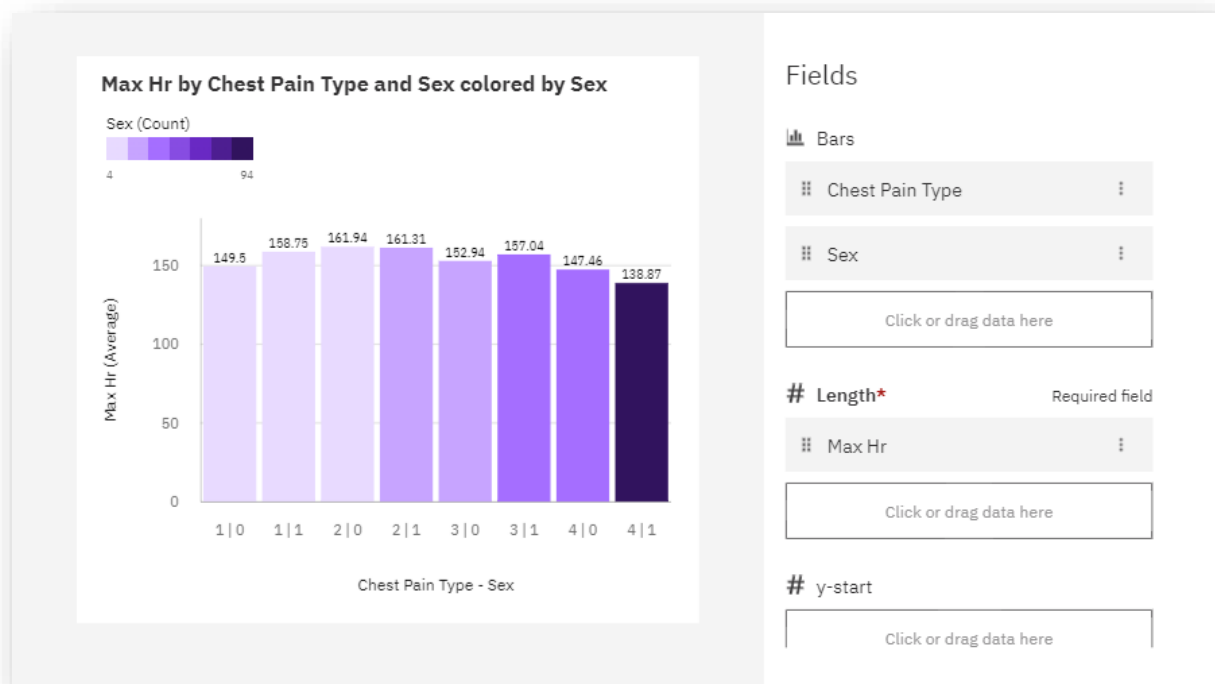
Age by Chest pain type



Exploration of Bp vs Chest pain type and Gender

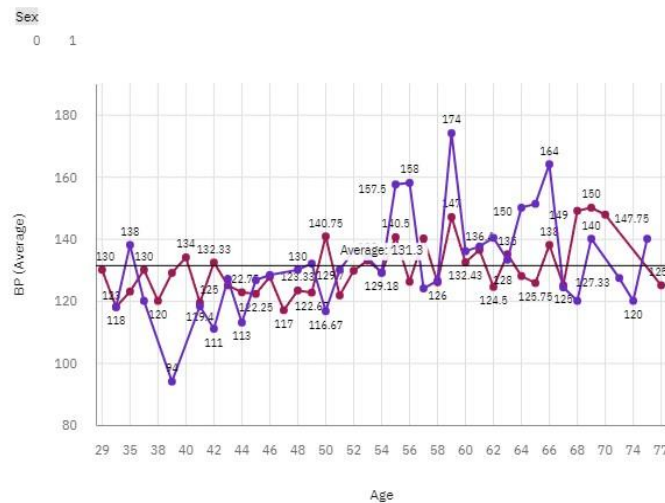


Exploration of Max Heart Rate During Chest pain



Exploration of Bp by Age

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.

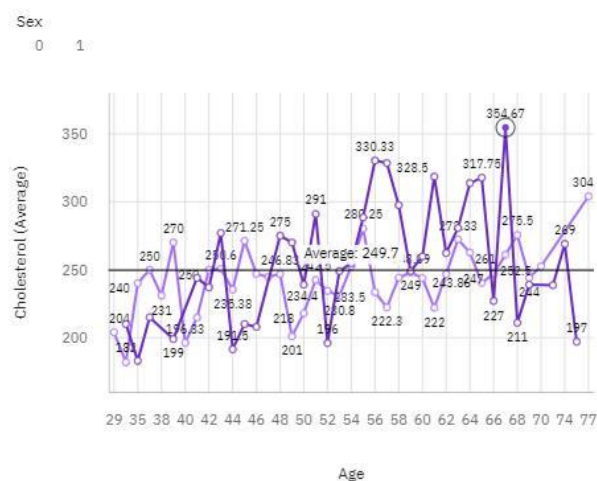
The most common value of **Sex** is 1, occurring 183 times, which is 67.8 % of the total.

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

Cholesterol by Age colored by Sex



Analytics

Insights

Show average value

The average value of Cholesterol is 249.7.

Show meaningful differences

1 found

Show predictive strength

There is no reliable predictive relationship between Age, Sex and Cholesterol.