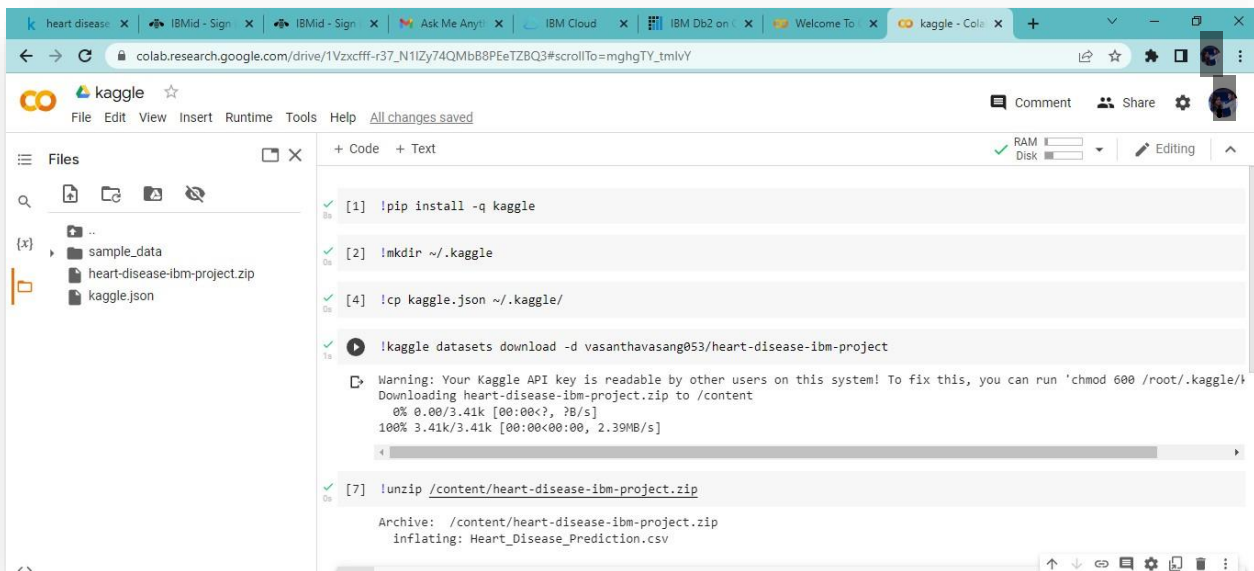


Working with Dataset

Date	09 November 2022
Team ID	PNT2022TMID05467
Project Name	Visualizing And Predicting Heart Diseases with An Interactive Dash Board

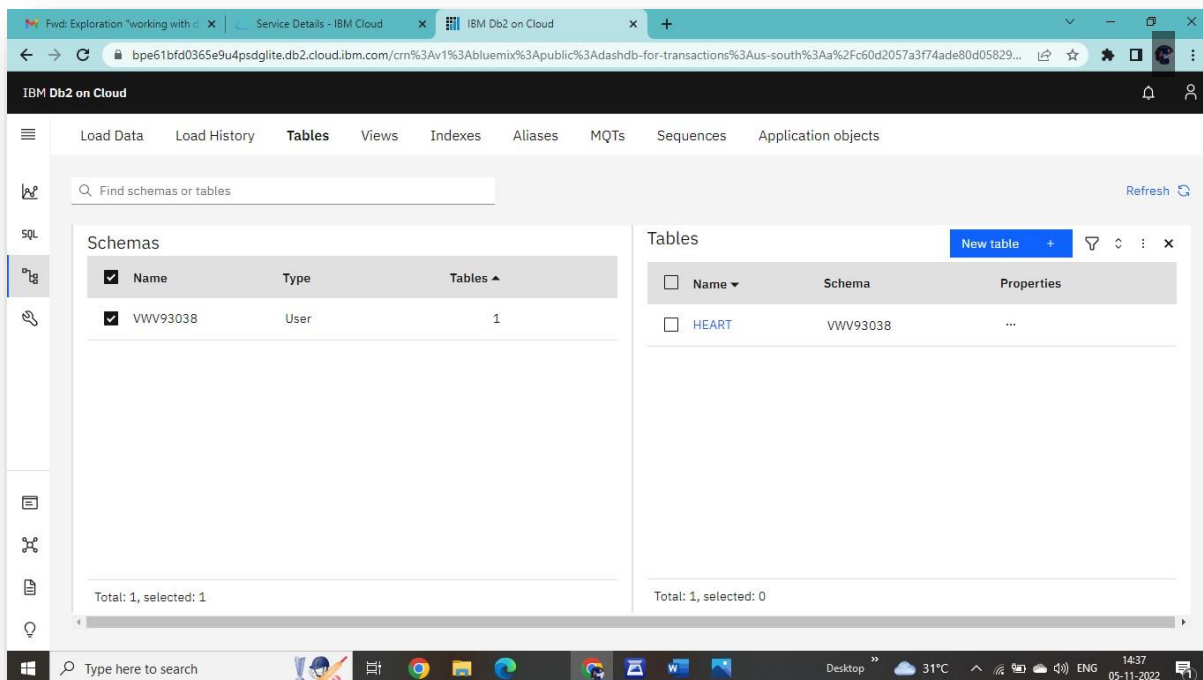
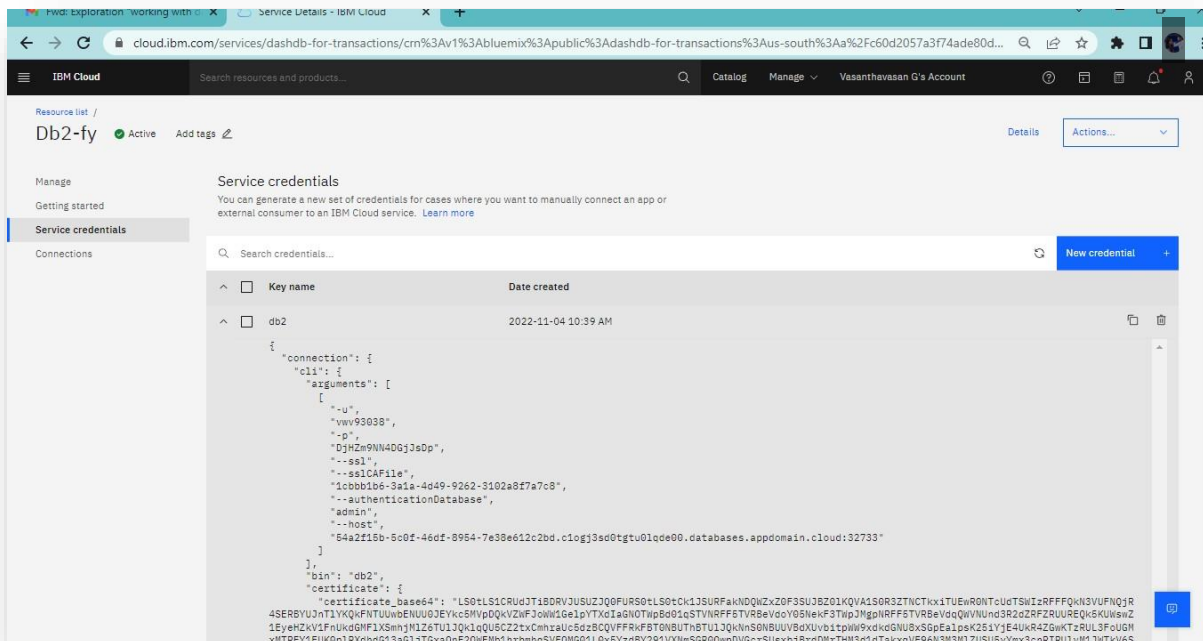
Loading and Understanding the Dataset



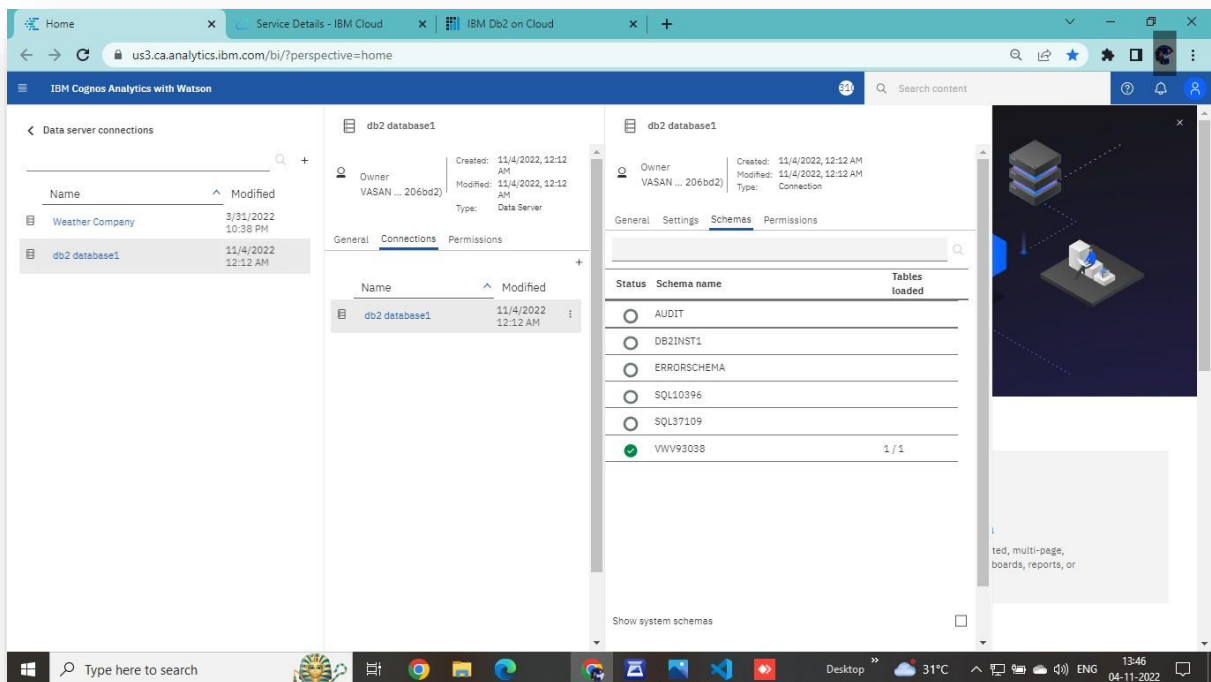
The screenshot shows a Google Colab notebook interface. The left sidebar displays the file explorer with a folder named 'sample_data' containing 'heart-disease-ibm-project.zip' and 'kaggle.json'. The main area shows a code cell with the following commands:

```
[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, 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



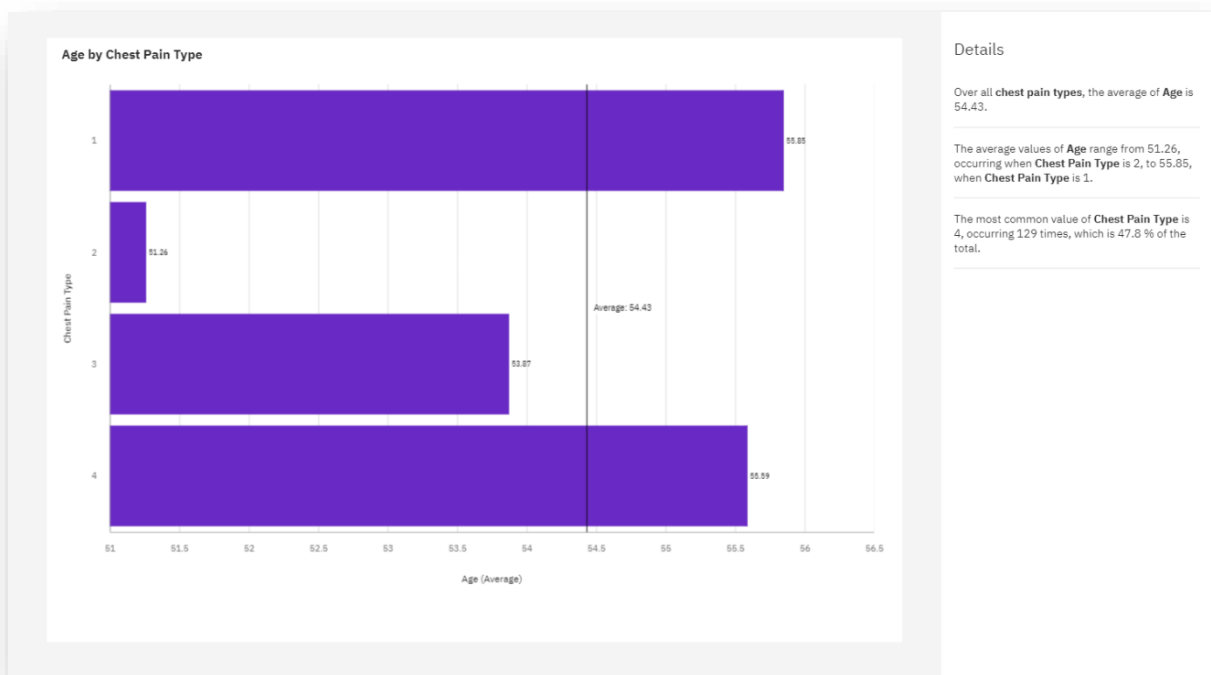
Data Preparation (Data Module)

The screenshot shows the IBM Cognos Analytics interface with the 'Heart disease data module' selected. The 'Data module' section is active, and the 'Grid' tab is selected. The table displays the following data:

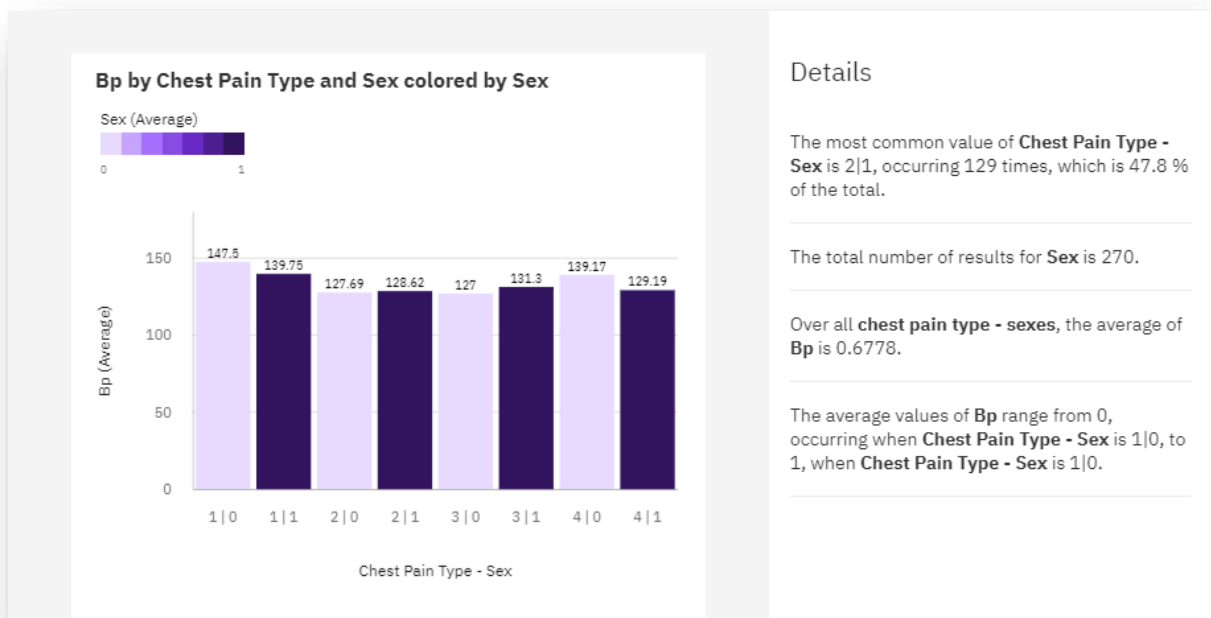
Age	Sex	Chest Pain Type	Bp	Cholesterol	Fbs Over 120	EKG Results	Max Hr
70	1	4	130	322	0	2	109
67	0	3	115	564	0	2	160
57	1	2	124	261	0	0	141
64	1	4	128	263	0	0	105
74	0	2	120	269	0	2	121
65	1	4	120	177	0	0	140
56	1	3	130	256	1	2	142
59	1	4	110	239	0	2	142
60	1	4	140	293	0	2	170
63	0	4	150	407	0	2	154
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

Exploration of Data:

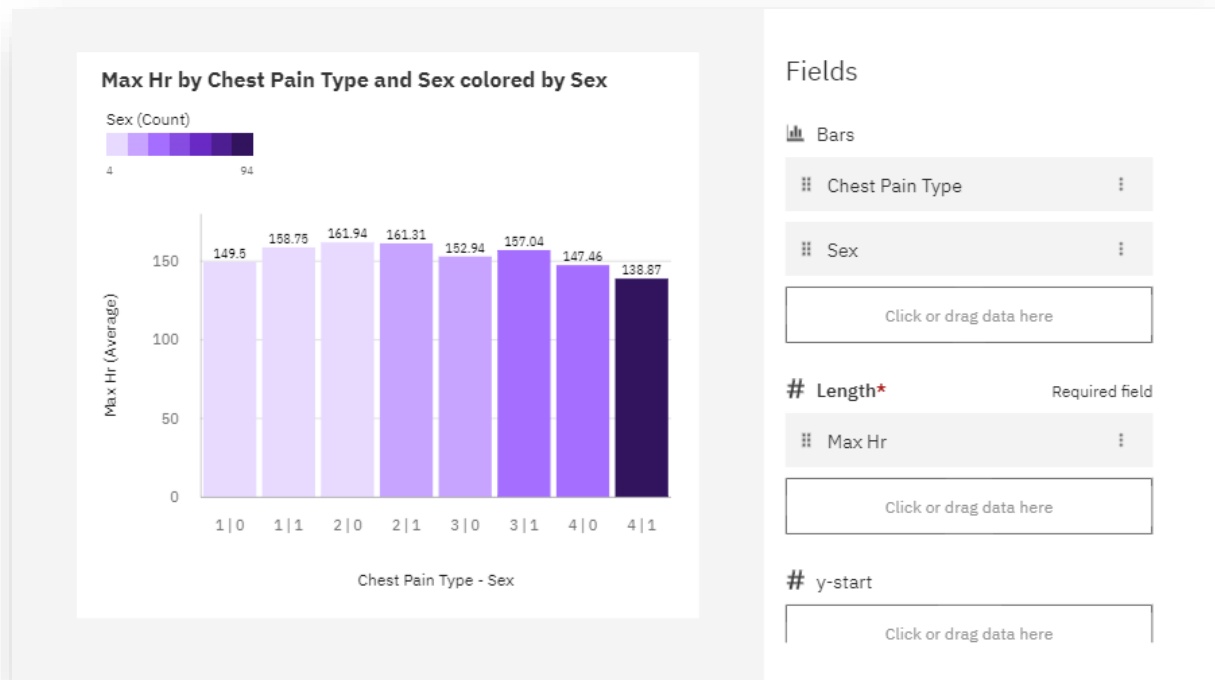
Age by Chest pain type



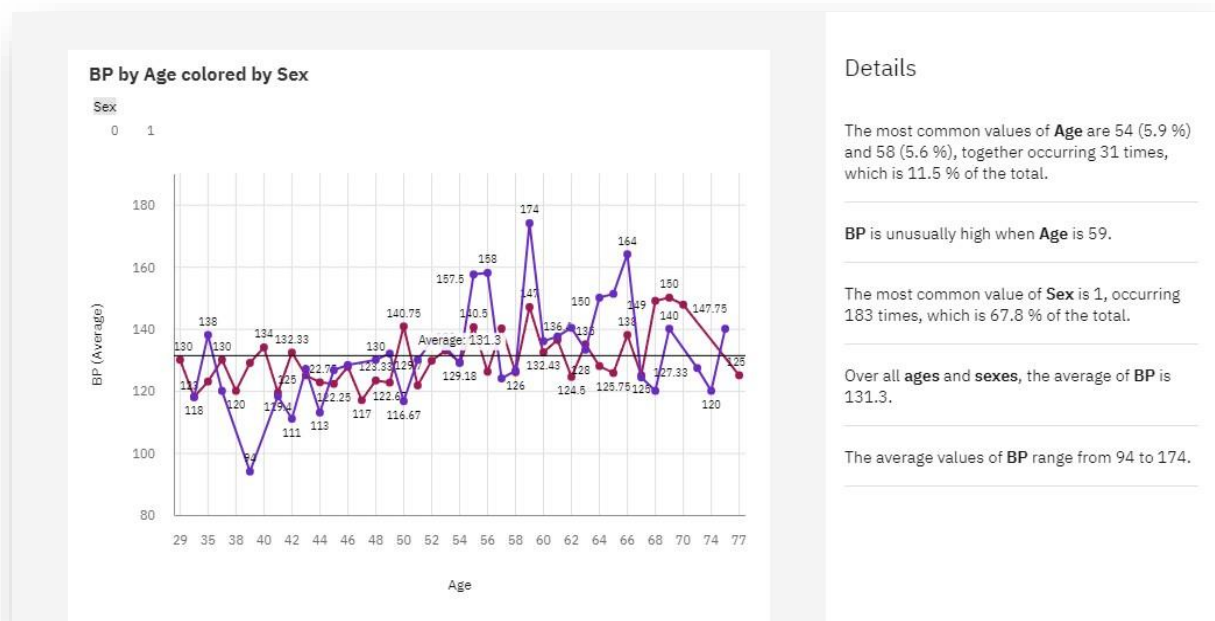
Exploration of Bp vs Chest pain type and Gender



Exploration of Max Heart Rate During Chest pain

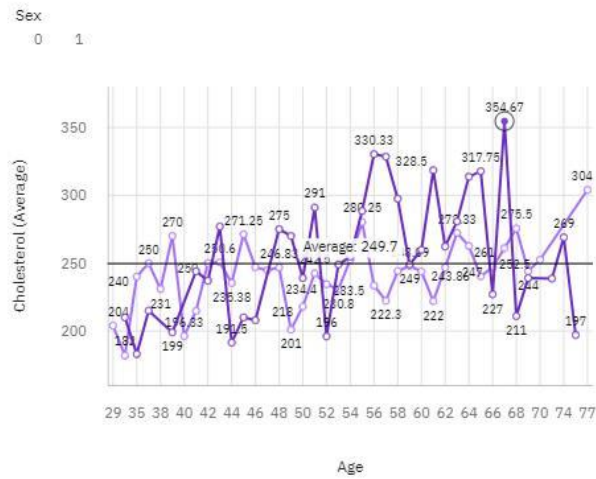


Exploration of Bp by Age



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.