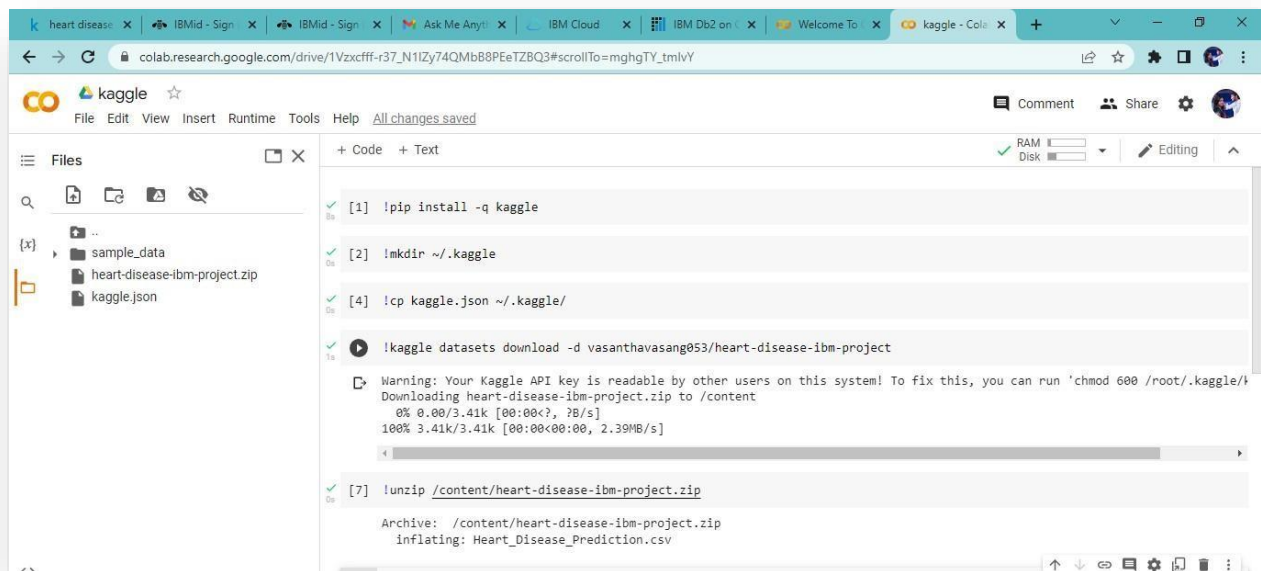


Working with Dataset

Date	05 November 2022
Team ID	PNT2022TMID30513
Project Name	Visualizing And Predicting Heart Diseases with An Interactive Dash Board

Loading and Understanding the Dataset

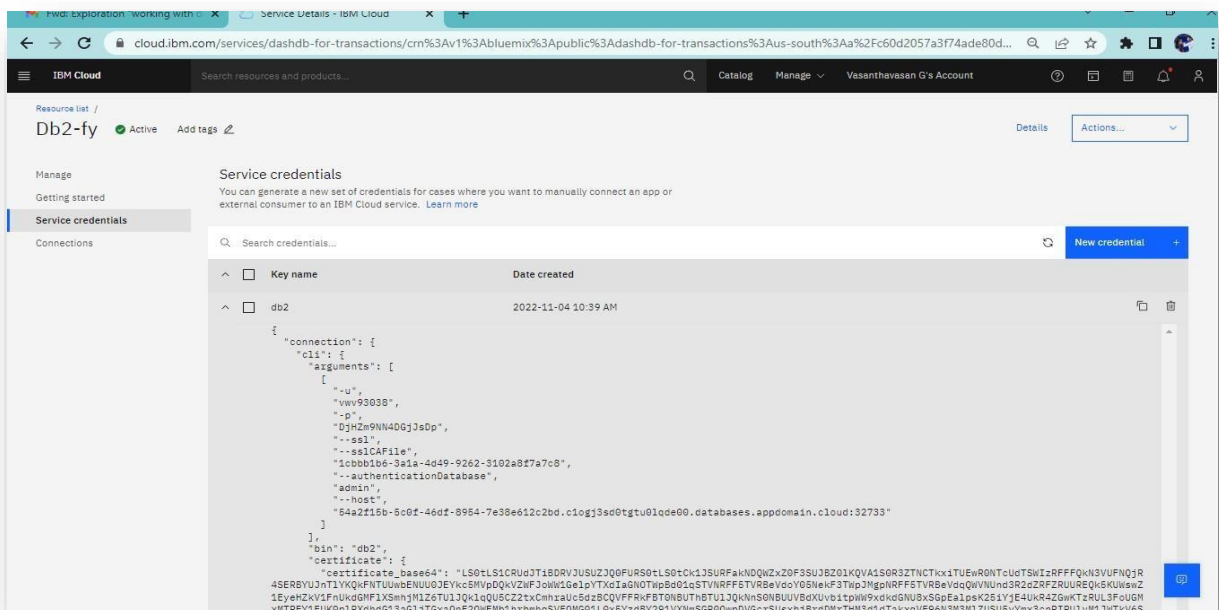
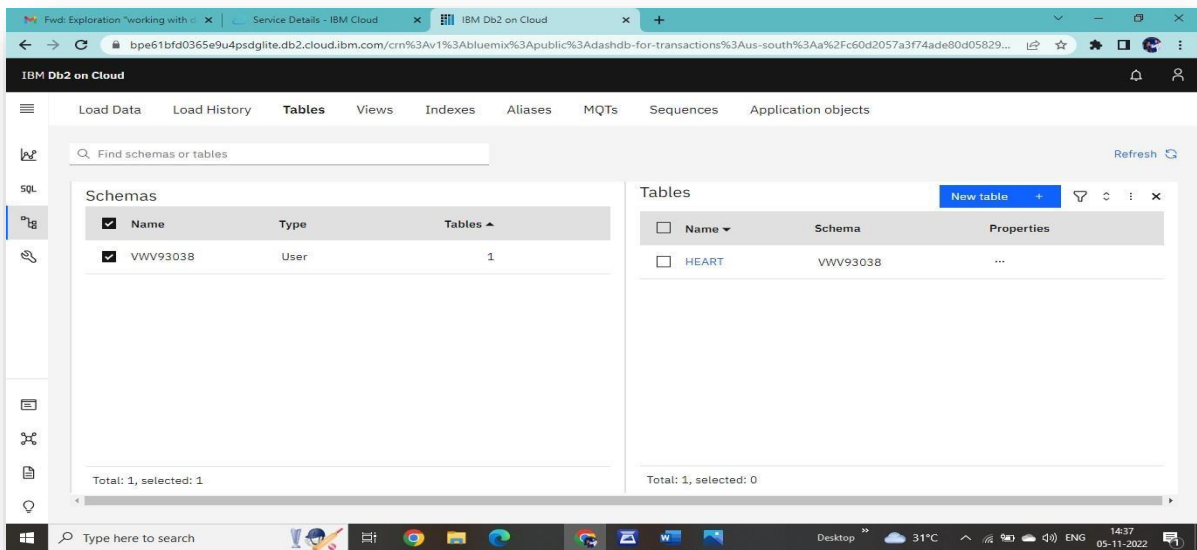


The screenshot shows a Google Colab notebook interface. The left sidebar displays the file explorer with a folder named 'sample_data' containing 'heart-disease-ibm-project.zip' and 'kaggle.json'. The main code area contains the following commands:

```
[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
```

The output of the commands shows the successful installation of kaggle, creation of the ~/.kaggle directory, copying of the API key, and the download and unzipping of the dataset. The unzipped file is named 'Heart_Disease_Prediction.csv'.

Successfully created Db2 Service Credential



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 10:36 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

db2 database1

Status	Schema name	Tables loaded
<input type="radio"/>	AUDIT	
<input type="radio"/>	DB2INST1	
<input type="radio"/>	ERRORSCHEMA	
<input type="radio"/>	SQL10396	
<input type="radio"/>	SQL37109	
<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

Search results - vasi1062001@g... My IBM Heart disease data module WORKING WITH DATASE1.pdf

us3.ca.analytics.ibm.com/bi/?perspective=ca-modeler&id=IFFA10435958A4C039945065494B21E89&objRef=IFFA10435958A4C039945065494B21E89&tid=28...

IBM Cognos Analytics with Watson Heart disease data module

Data module

Heart disease data module

Navigation paths

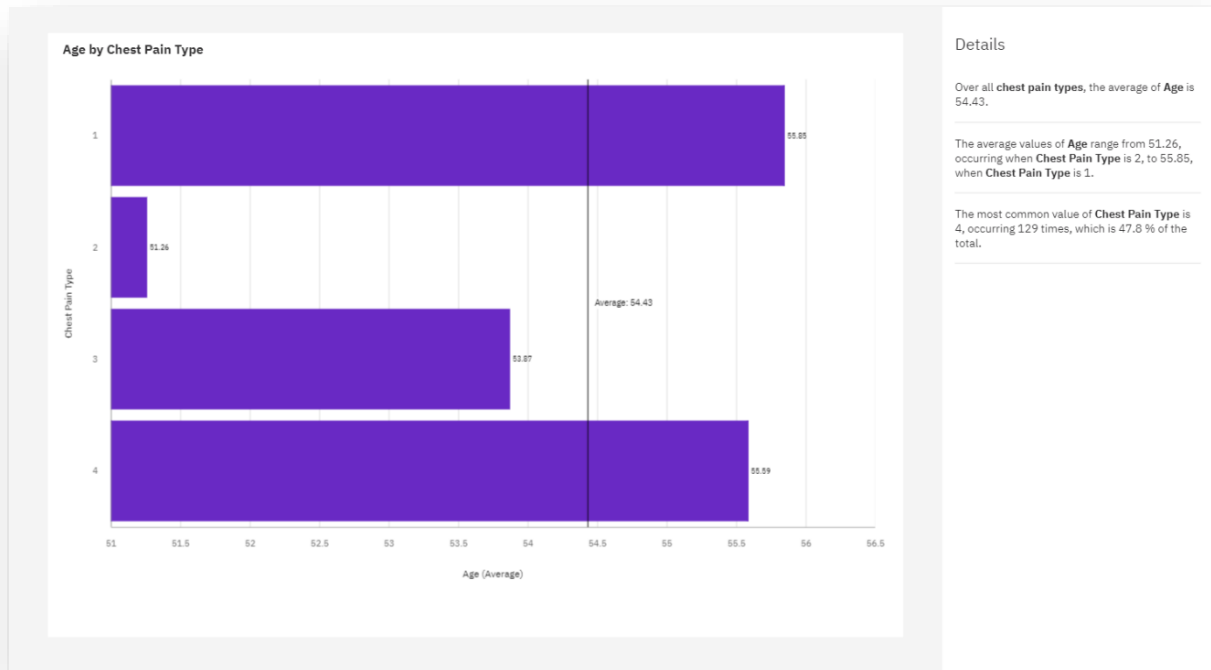
- Heart
 - Age
 - Sex
 - Chest Pain Type
 - Bp
 - Cholesterol
 - Fbs Over 120
 - EKG Results
 - Max Hr
 - Exercise Angina
 - St Depression
 - Slope Of St
 - Number Of ...els Fluro
 - Thallium
 - Heart Disease

Grid Relationships Custom tables

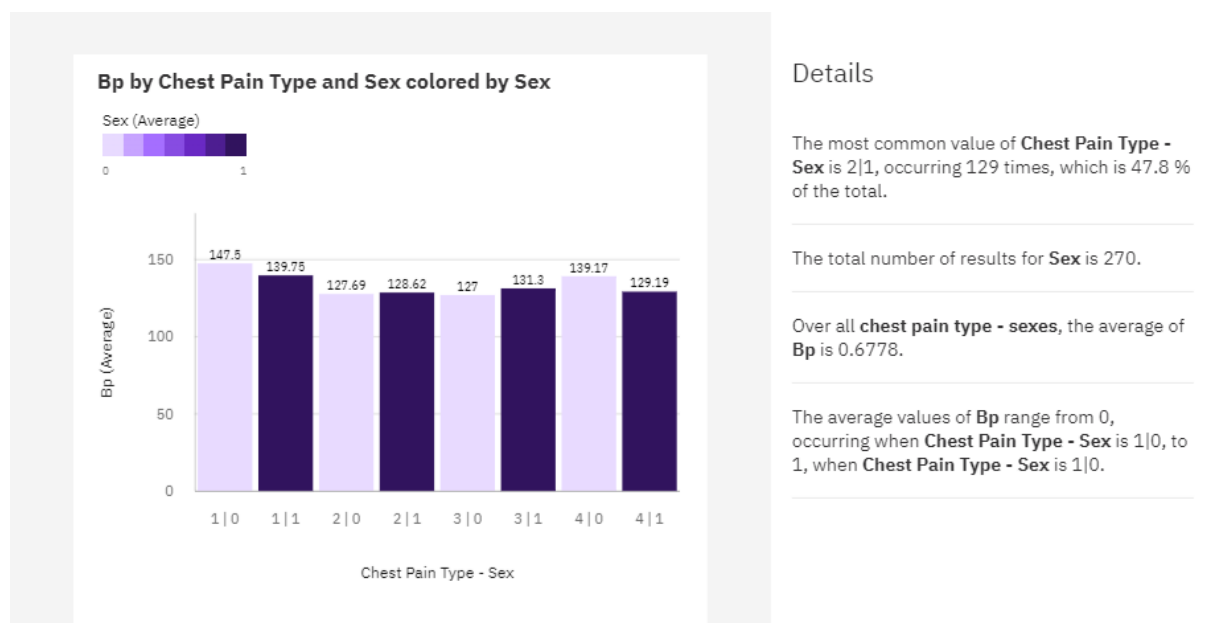
Id	Age	Sex	Chest Pain Type	Bp	Cholesterol	Fbs Over 120	EKG Results	Max Hr
70		1	4	130	322	0	2	109
67		0	3	115	564	0	2	160
57		1	2	124	261	0	0	141
64		1	4	128	263	0	0	105
74		0	2	120	269	0	2	121
65		1	4	120	177	0	0	140
56		1	3	130	256	1	2	142
59		1	4	110	239	0	2	142
60		1	4	140	293	0	2	170
63		0	4	150	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 15:08 05-11-2022

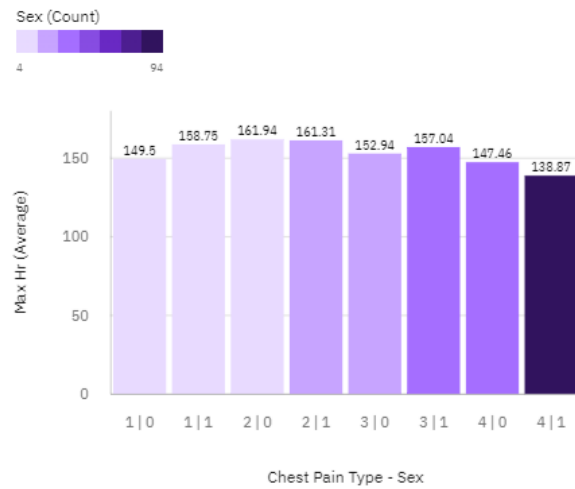
Data Preparation (Data Module) Exploration of Data: Age by Chest pain type



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

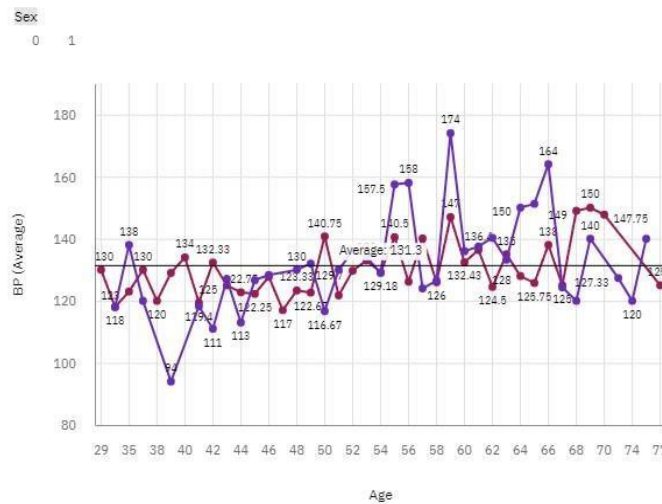
Max Hr

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

