# **Sprint Delivery Plan II**

Date	02 November 2022
Team ID	PPNT2022TMID50017
Project Name	Visualizing and Predicting Heart Diseases
	with an Interactive Dashboard

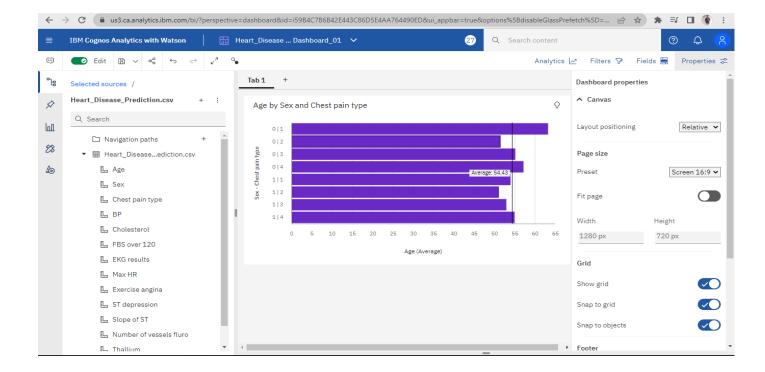
### **Exploration of Heart disease Prediction Dataset Using Cognos Analysis:**

#### USN-4,5:

- As a Data analyst, I create a predicted model by also preparing story card with using explored data.
- As a Data analyst, I will create different types of models in explored data to identify suitable model with effectively and efficiently.

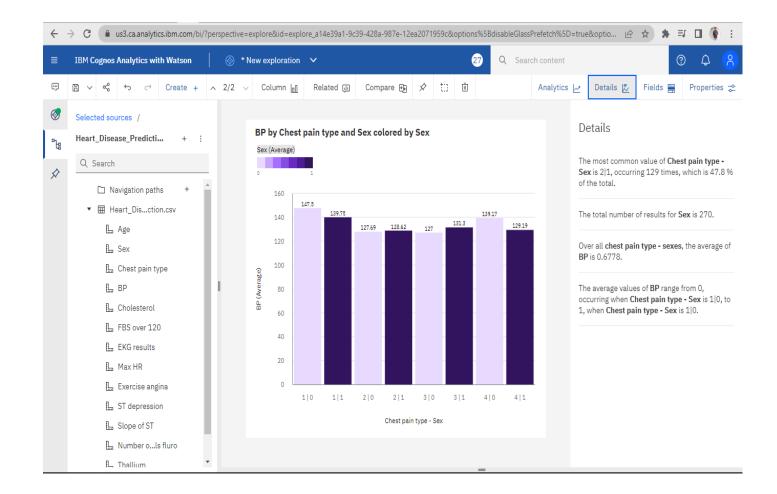
### Age By Chest pain type:

- ✓ The most common value of Chest pain type is 4, occurring 129 times, which is 47.8 % of the total.
- ✓ Over all **chest pain types**, the average of **Age** is 54.43.
- ✓ The average values of **Age** range from 51.26, occurring when **Chest pain type** is 2, to 55.85, when **Chest pain type** is 1.



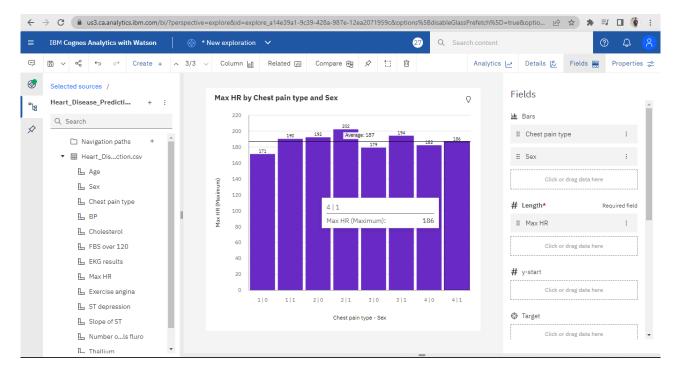
### BP by Chest pain type and Sex coloured by Sex:

- The most common value of **Chest pain type Sex** is 2|1, occurring 129 times, which is 47.8 % of the total.
- The total number of results for Sex is 270.
- Over all chest pain type sexes, the average of BP is 0.6778.
- The average values of **BP** range from 0, occurring when **Chest pain type Sex** is 1|0, to 1, when **Chest pain type Sex** is 1|0.



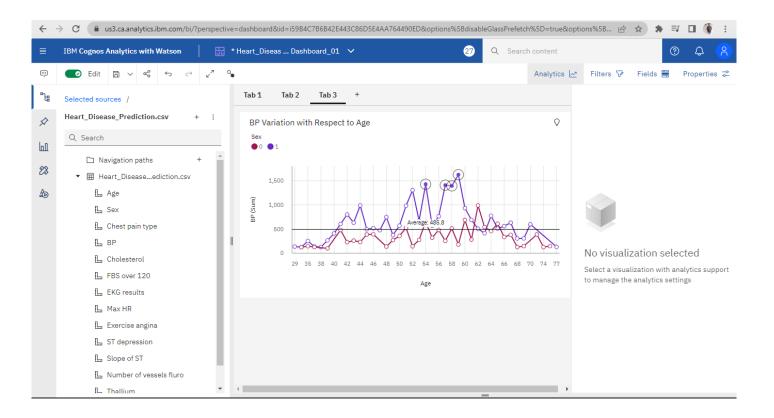
# Max HR by Chest pain type and Sex:

- The totals number of results for Max HR, across all chest pain type sexes, is 270.
- ❖ The most common value of Chest pain type Sex is 2|1, occurring 129 times, which is 47.8 % of the total.
- ❖ The largest value of Max HR is 1, occurring when Chest pain type Sex is 1|0.



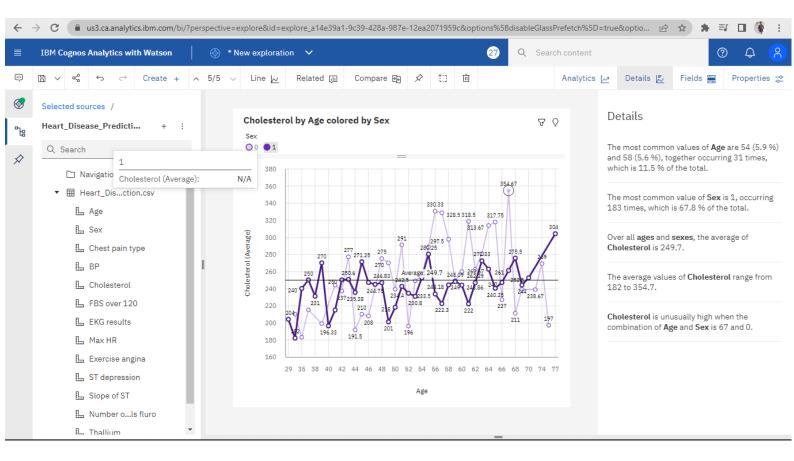
## **BP by Age:**

- 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.
- Over all **ages**, the average of **BP** is 131.3.
- The average values of BP range from 117, occurring when Age is 47, to 149.2, when Age is 59.
- **BP** is unusually high when **Age** is 59.



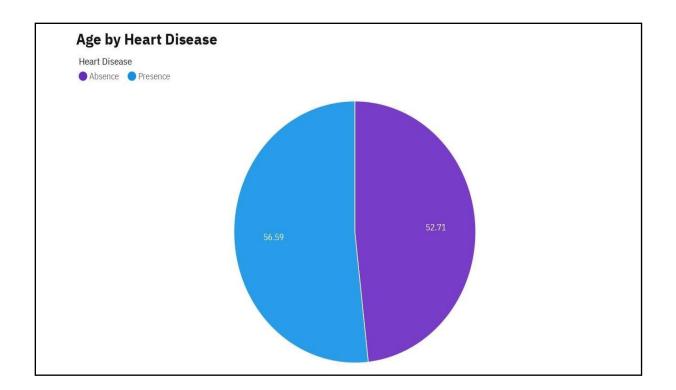
# **Cholesterol by Age colored by Gender:**

- ✓ Over all **ages** and **sexes**, the average of **Cholesterol** is 249.7.
- ✓ The average values of **Cholesterol** range from 182 to 354.7.
- ✓ **Cholesterol** is unusually high when the combination of **Age** and **Sex** is 67 and 0.
- ✓ 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.
- ✓ The most common value of **Sex** is 1, occurring 183 times, which is 67.8 % of the total.



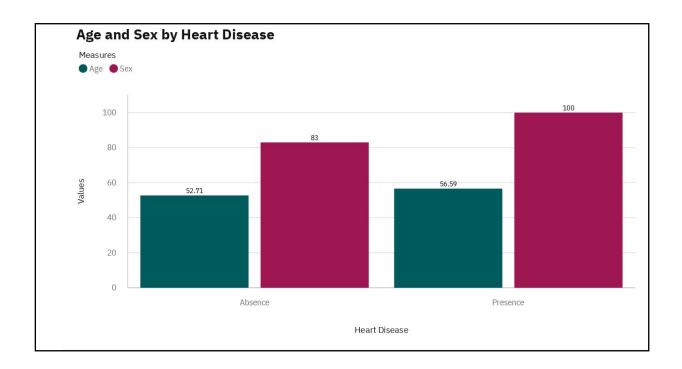
### **Age By Heart Disease:**

- ❖ The most common value of **heart disease** is Absence, occurring 150 times, which is 55.6 % of the total.
- Over all heart diseases, the average of Age is 54.43.
- ❖ The average values of Age range from 52.71, occurring when heart disease is Absence, to 56.59, when heart disease is Presence.



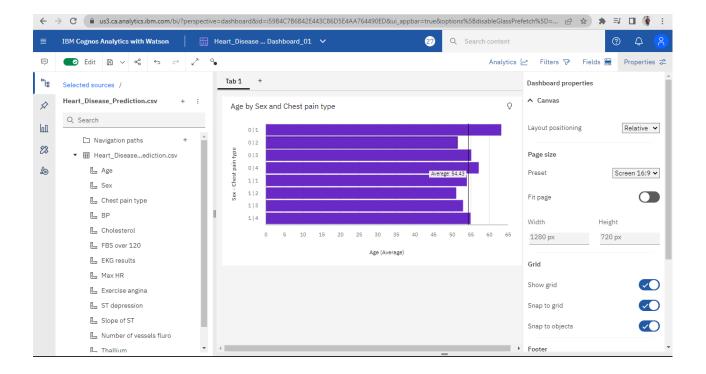
#### Age and Sex by Heart Disease:

- The total number of results for **Sex**, across all **heart diseases**, is 270.
- Over all **heart diseases**, the average of **Sex** is 0.6778.
- The most common value of **Heart Disease** is Absence, occurring 150 times, which is 55.6 % of the total.
- The average values of **Age** range from 52.71, occurring when **heart disease** is Absence, to 56.59, when **heart disease** is Presence.
- **Sex** ranges from 83, when **heart disease** is Absence, to 100, when **heart disease** is Presence.
- The total number of results for **Age**, across all **heart diseases**, is 270.



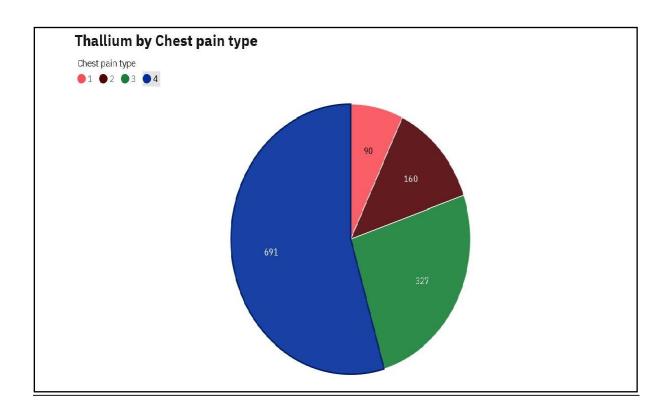
### **Chest pain type by Chest pain type:**

- ✓ The total number of results for **Chest pain type**, across all **chest pain types**, is 270.
- ✓ The most common value of **Chest pain type** is 4, occurring 129 times, which is 47.8 % of the total.
- ✓ The count is unusually high when **Chest pain type** is 4.



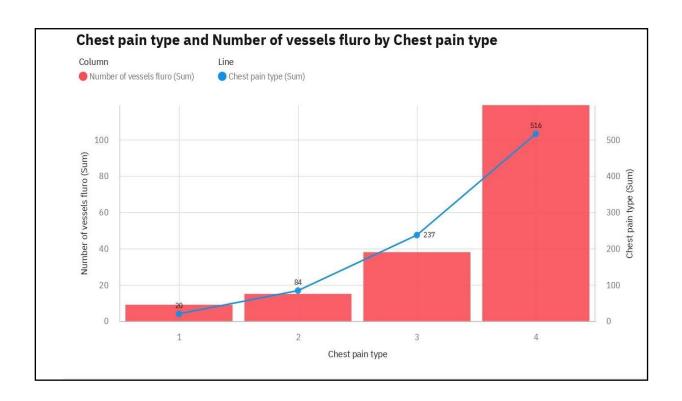
### **Thallium by Chest pain type:**

- Over all **chest pain types**, the sum of **Thallium** is nearly 1500.
- Thallium ranges from 90, when Chest pain type is 1, to 691, when Chest pain type is 4.
- Thallium is unusually high when Chest pain type is 4.



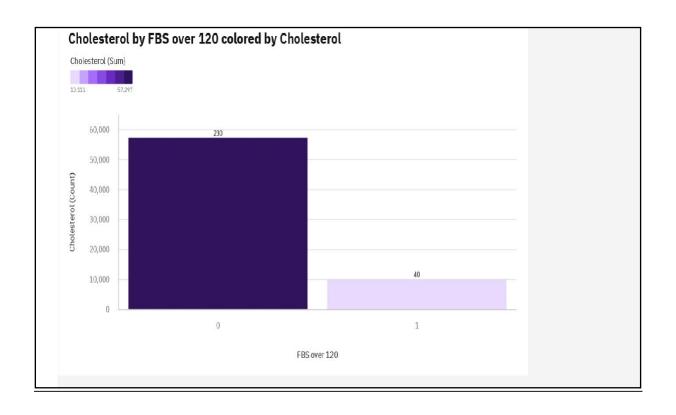
### Chest pain type and Number of vessels Fluro by Chest pain type:

- > Over all **chest pain types**, the sum of **Number of vessels fluro** is 181.
- > Number of vessels fluro ranges from 9, when Chest pain type is 1, to 119, when Chest pain type is 4.
- > Number of vessels fluro is unusually high when Chest pain type is 4.
- > Over all **chest pain types**, the sum of **Chest pain type** is 857.
- Chest pain type ranges from 20, when Chest pain type is 1, to 516, when Chest pain type is 4.
- > Chest pain type is unusually high when Chest pain type is 4.



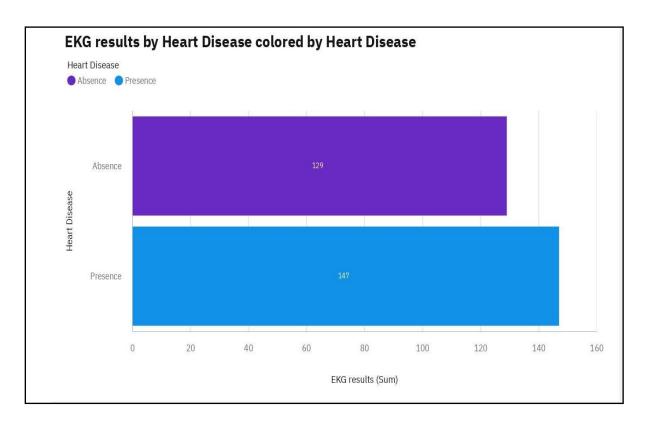
# **Cholesterol by FBS over 120 coloured by Cholesterol:**

- ✓ The total number of results for **Cholesterol** is 270.
- ✓ The most common value of **FBS over 120** is 0, occurring 230 times, which is 85.2 % of the total.



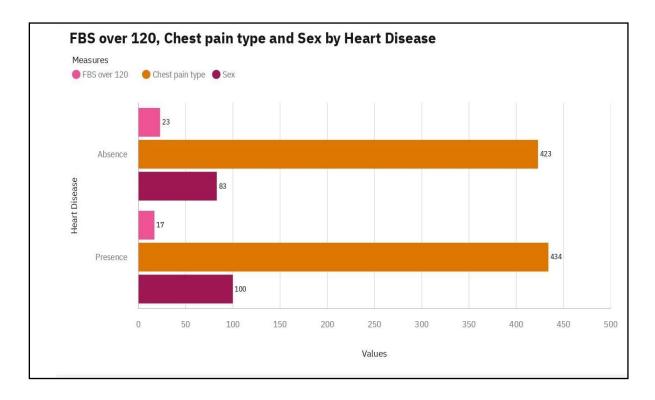
### **EKG** results by heart disease colored by heart disease:

- For **EKG results**, the most significant value of **heart disease** is Presence, whose respective **EKG results** values add up to 147, or 53.3 % of the total.
- Over all heart diseases and heart diseases, the sum of **EKG results** is 276.
- The summed values of **EKG results** range from 129 to 147.



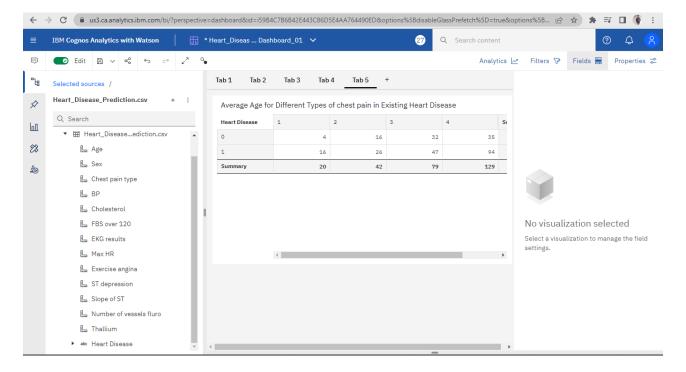
#### FBS over 120, Chest pain type and Sex by Heart Disease:

- ✓ FBS over 120 ranges from 17, when heart disease is Presence, to 23, when heart disease is Absence.
- ✓ **Chest pain type** ranges from 423, when **heart disease** is Absence, to 434, when **heart disease** is Presence.
- ✓ **Sex** ranges from 83, when **heart disease** is Absence, to 100, when **heart disease** is Presence.
- ✓ The total number of results for **Sex**, across all **heart diseases**, is 270.
- ✓ Over all **heart diseases**, the average of **Sex** is 0.6778.
- ✓ The most common value of **heart disease** is Absence, occurring 150 times, which is 55.6 % of the total.
- ✓ The total number of results for **Chest pain type**, across all **heart diseases**, is 270.
- ✓ Over all **heart diseases**, the average of **Chest pain type** is 3.174.
- ✓ The total number of results for FBS over 120, across all heart diseases, is 270.
- ✓ Over all **heart diseases**, the average of **FBS over 120** is 0.1481.



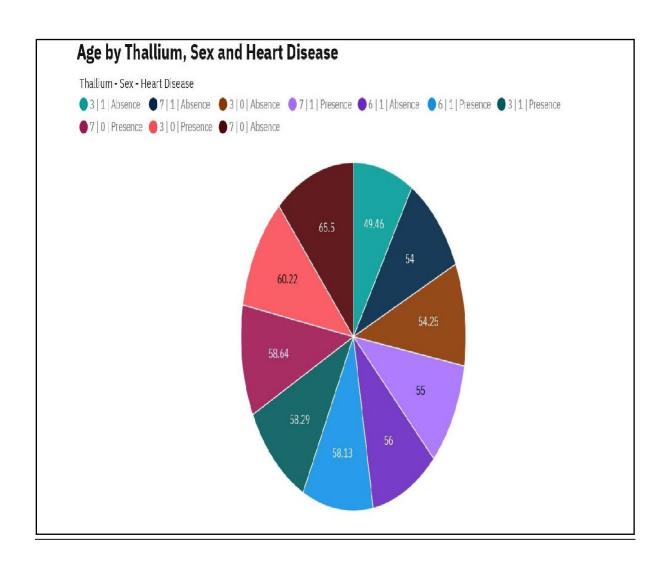
### **Age and Max HR for Sex:**

- The total number of results for **Age**, across all **sexes**, is 2.
- > The total number of results for **Max HR**, across all **sexes**, is 2.
- ➤ The average values of **Age** range from 53.84, occurring when **Sex** is 1, to 55.68, when **Sex** is 0.
- ➤ The largest value of **Max HR** is 202, occurring when **Sex** is 1.



# Age by Thallium, Sex and Heart Disease:

- ❖ Over all **thallium sex heart diseases**, the average of **Age** is 0.3222.
- ❖ The average values of Age range from 0, occurring when Thallium Sex heart disease is 3|1|Absence, to 1, when Thallium Sex heart disease is 3|1|Absence.
- ❖ Age is unusually low when **Thallium Sex heart disease** is 3|1|Absence.
- ❖ The most common values of **Thallium Sex heart disease** is 3|1|Absence (56.3 %) and 7|1|Absence (38.5 %), together occurring 256 times, which is 94.8 % of the total.



# **Cholesterol by Heart Disease and Chest pain type colored by Sex:**

- ✓ The most common value of heart disease Chest pain type is Absence|1,
  occurring 150 times, which is 55.6 % of the total.
- ✓ The most common value of **Sex** is Sex\_CAT3, occurring 129 times, which is 47.8 % of the total.
- ✓ The most common value of **Sex** is 1, occurring 42 times, which is 67.7 % of the total.
- ✓ The total number of results for Cholesterol, across all heart disease chest pain types, is 270.

