## PROJECT DEVELOPMENT PHASE

Delivery of Sprint - 01

DATE	29 <sup>th</sup> October 2022
TEAM ID	PNT2022TMID29954
PROJECT TITLE	Visualizing and Predicting Heart Diseases with an Interactive Dashboard

SPRINT - 01

- Data Collection
- ☐ Data Preparation

SPRINT - 03

■ Dashboard Creation

SPRINT - 02

□ Data Exploration

SPRINT - 04

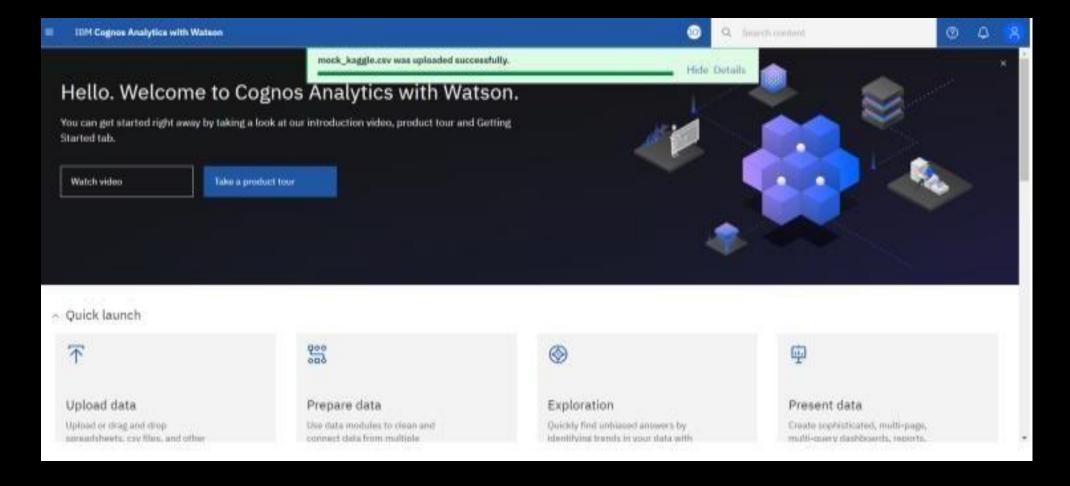
- □ Report Creation
- Story Creation

## Data Collection

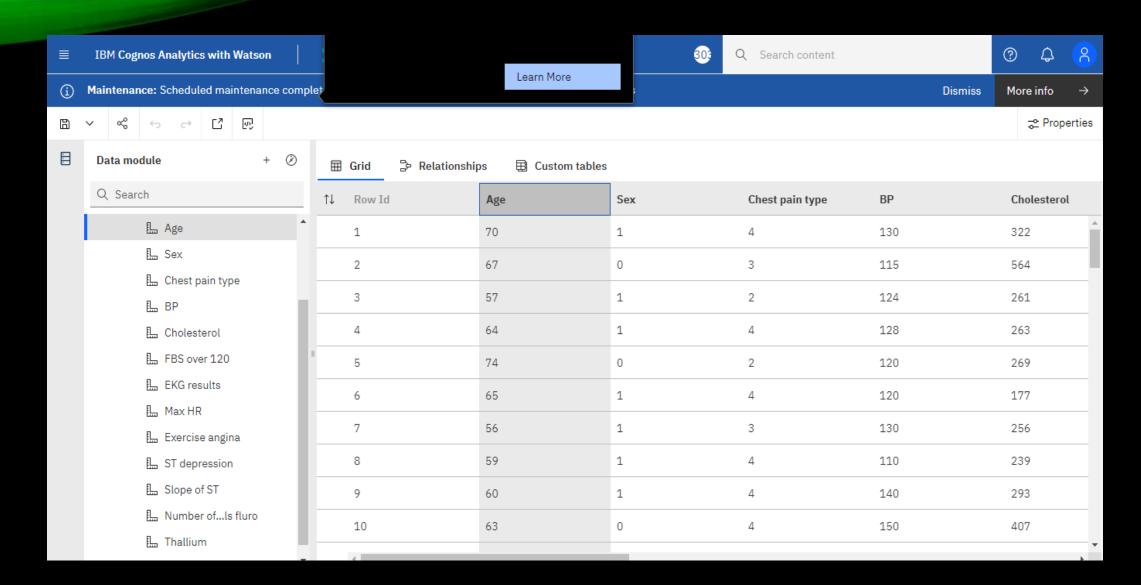
(i) DOWNLOADING DATASET:

Dataset link: <u>heart-disease-prediction dataset</u>

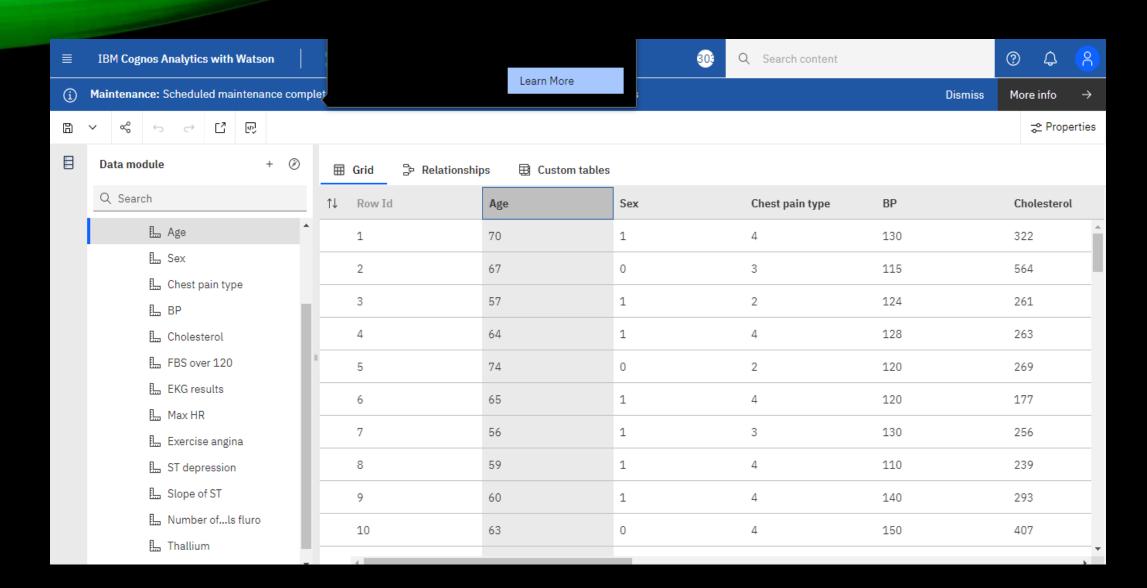
(ii) UPLOADING DATASET



## **Prepare the Dataset**

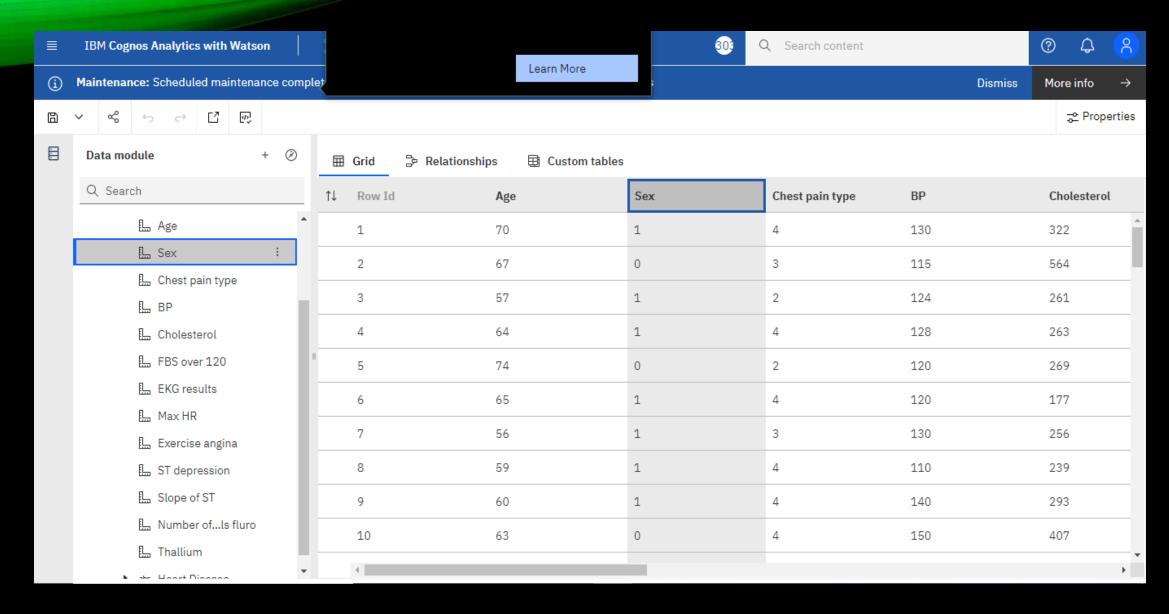


#### AGE:

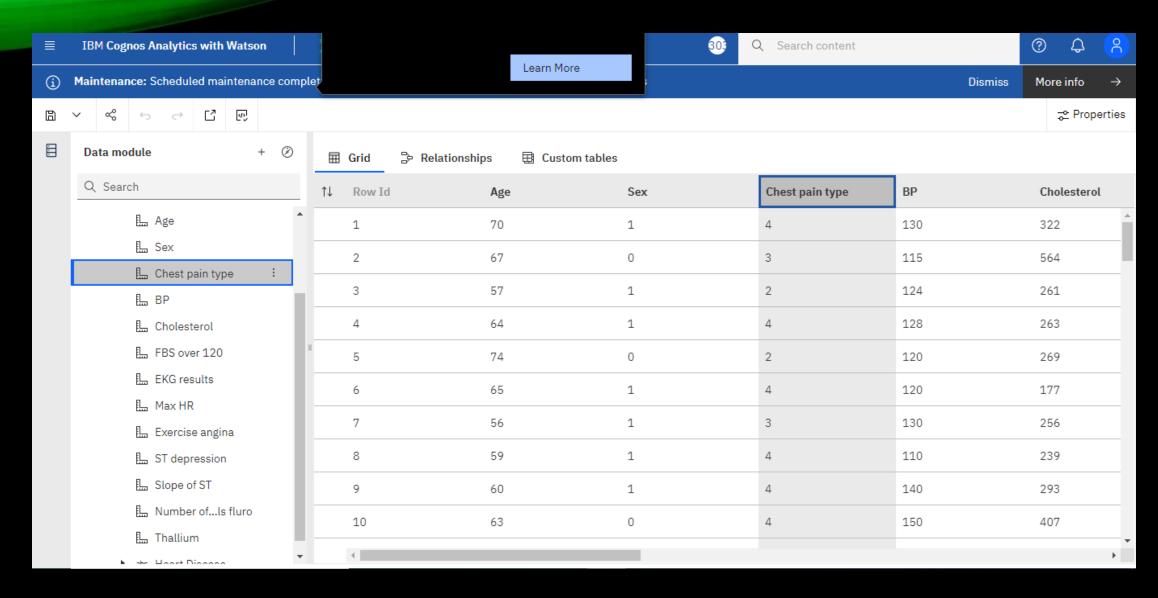


Appelled to the property of the control of the cont

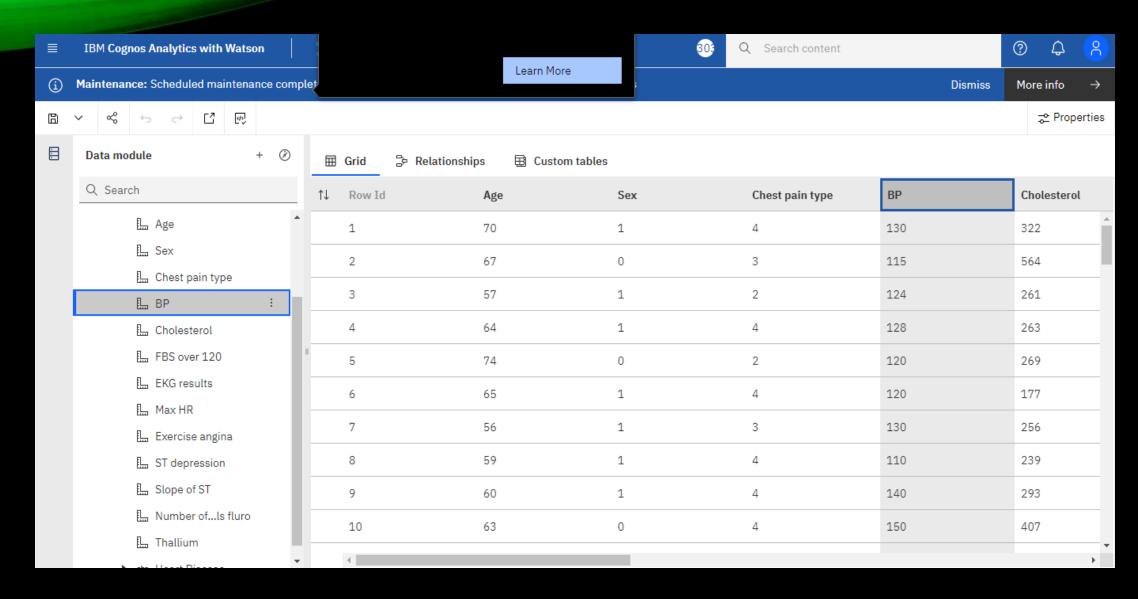
# DATA PREPARATION GENDER:



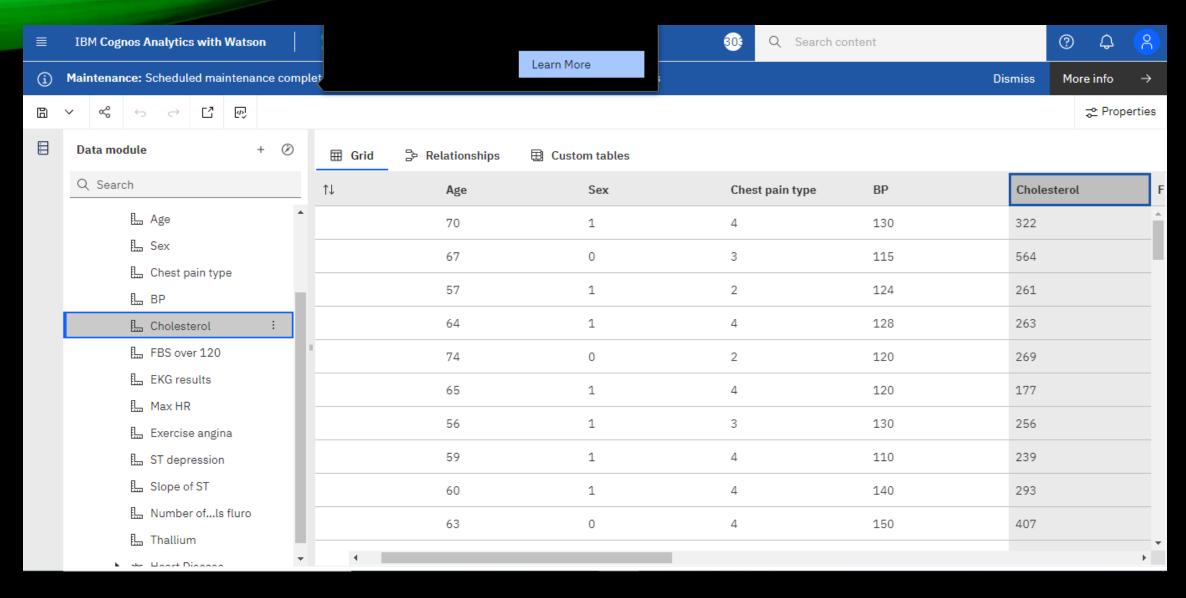
#### **CHEST PAIN TYPE:**



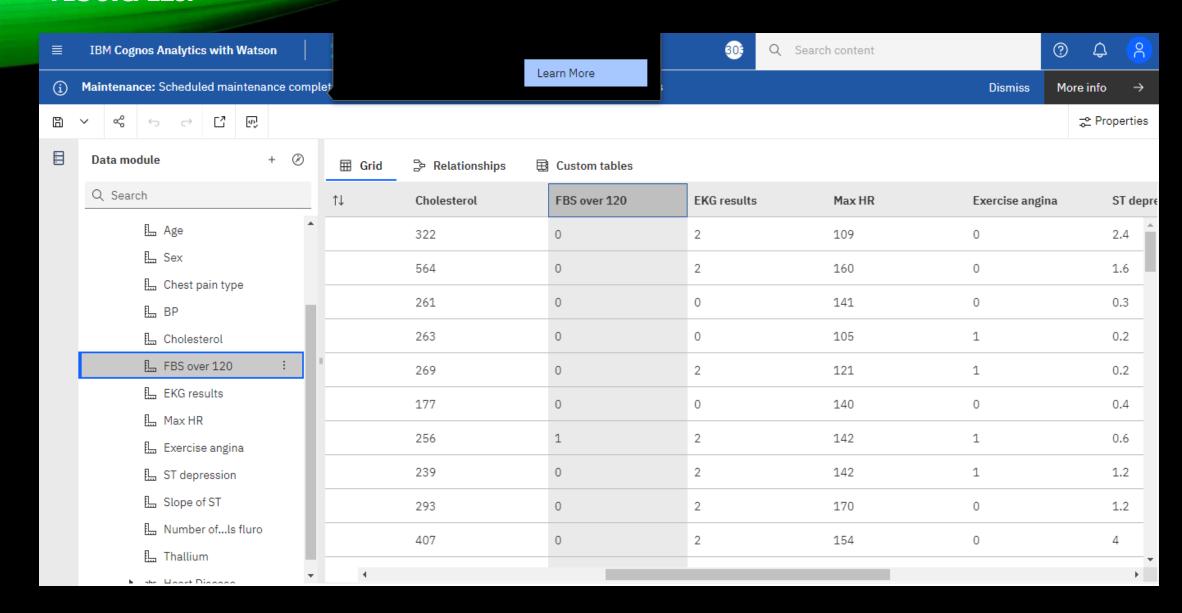
#### BP:



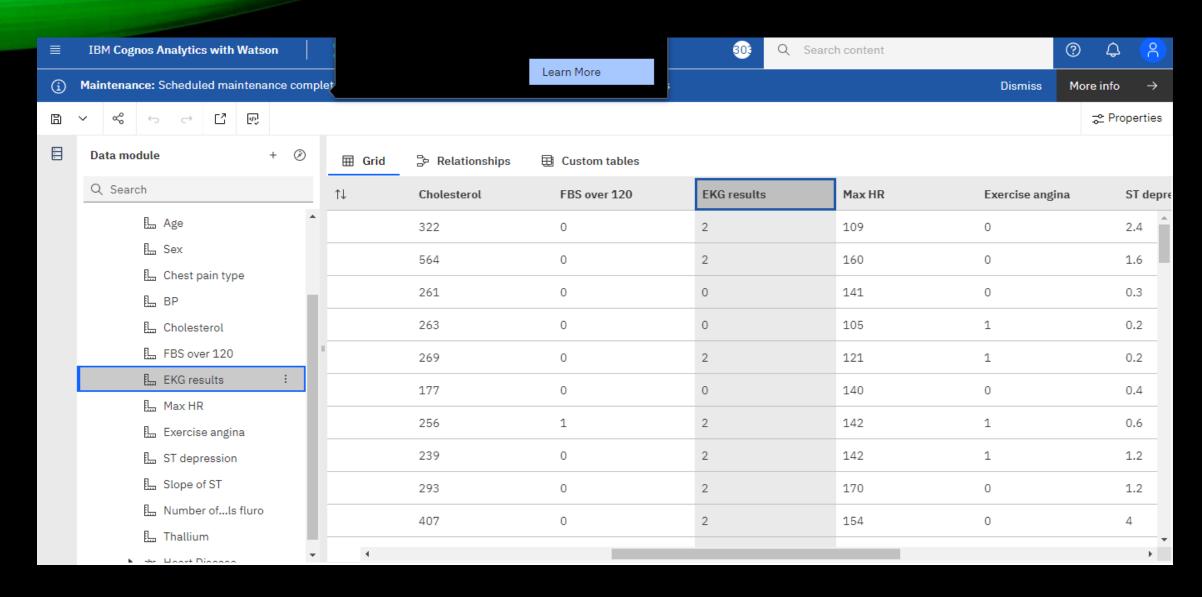
#### **CHOLESTEROL:**



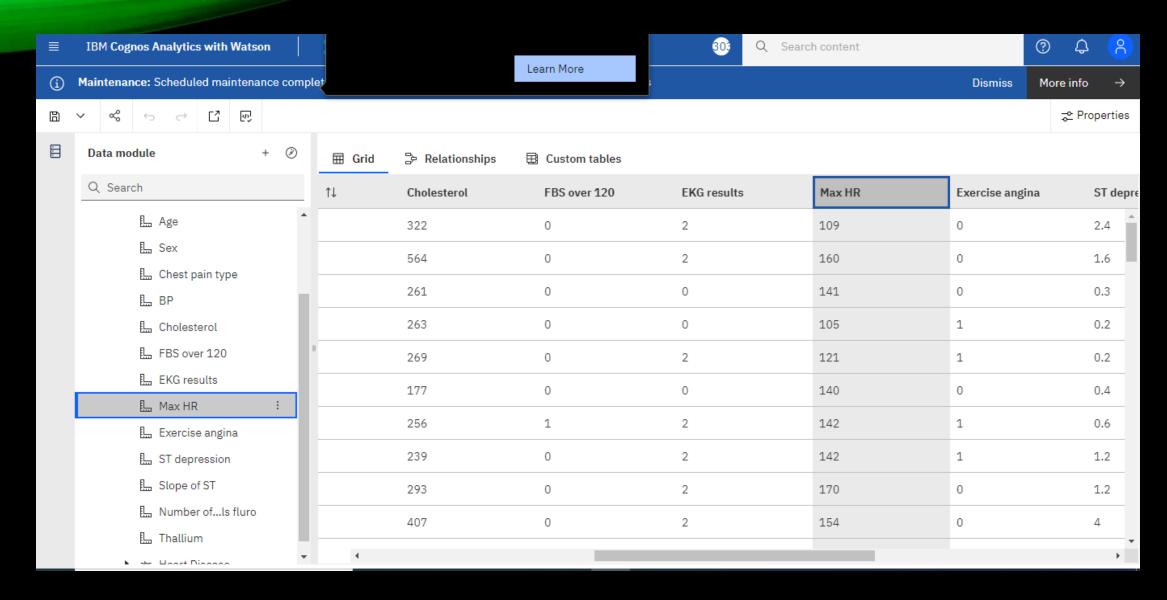
# DATA PREPARATION FBS over 120:



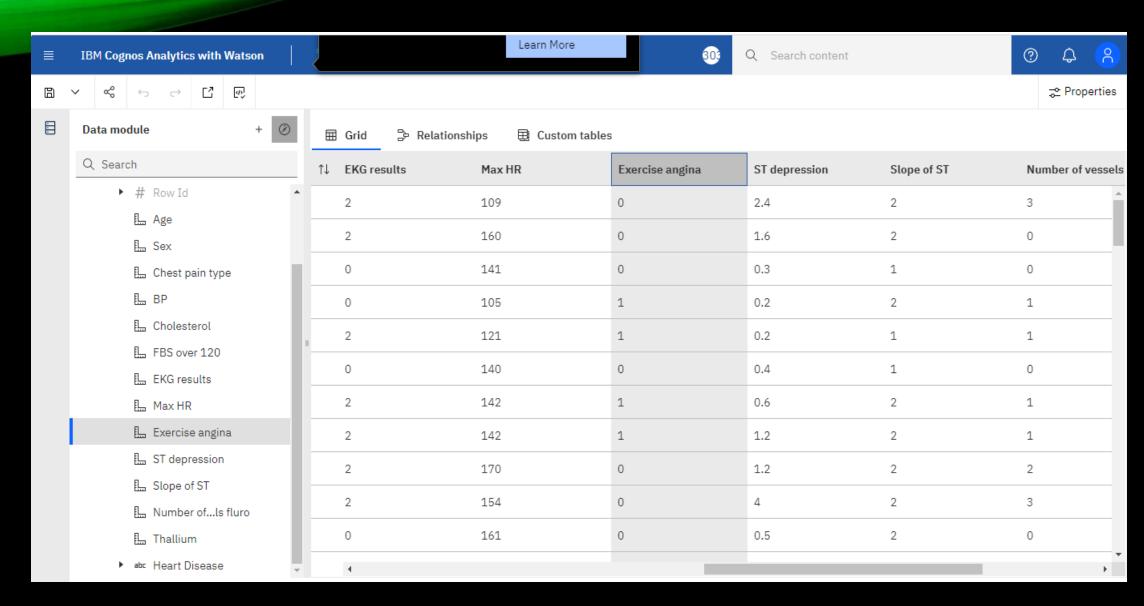
#### **EKG Results:**



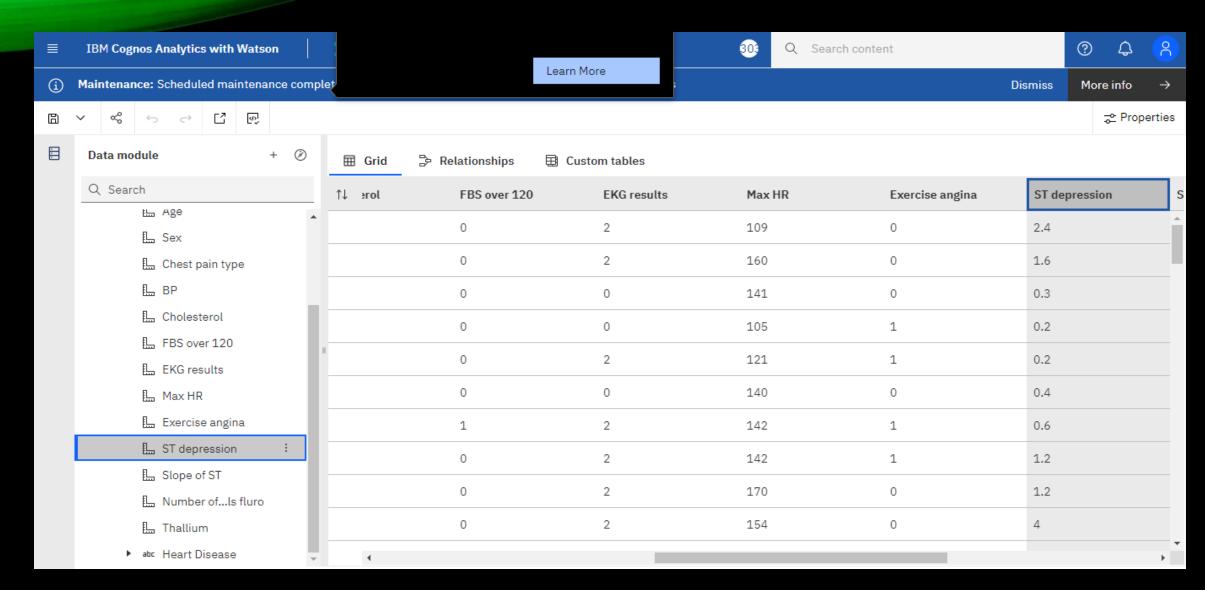
#### MAX HR:



#### **EXERCISE ANGINA:**

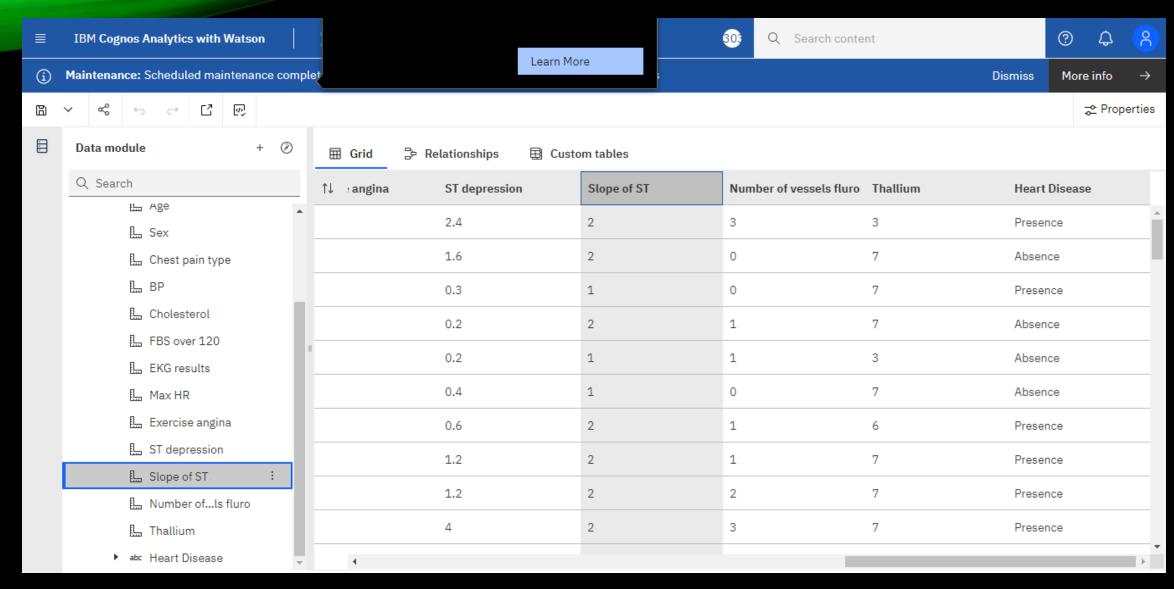


## **ST Depression:**

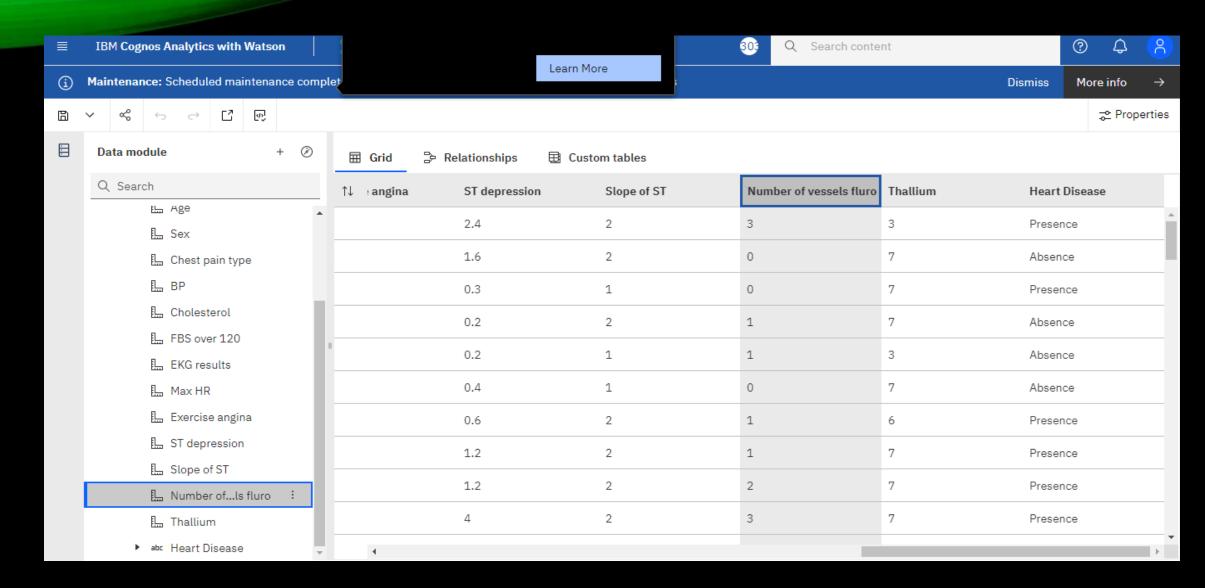


Control of the Contro

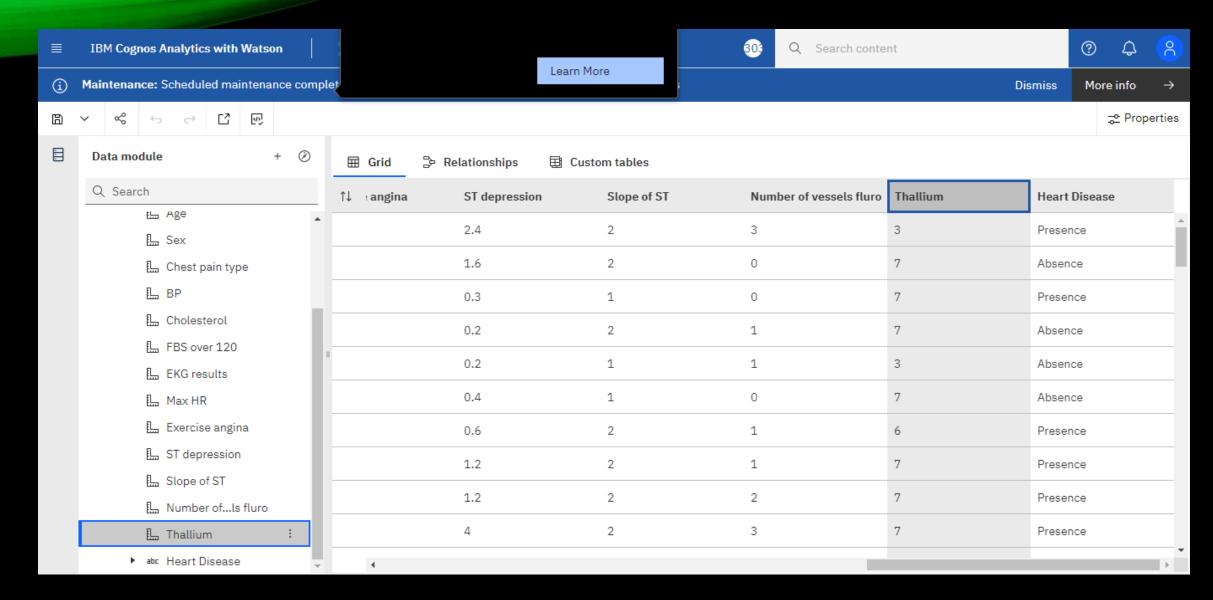
## Slope of ST:



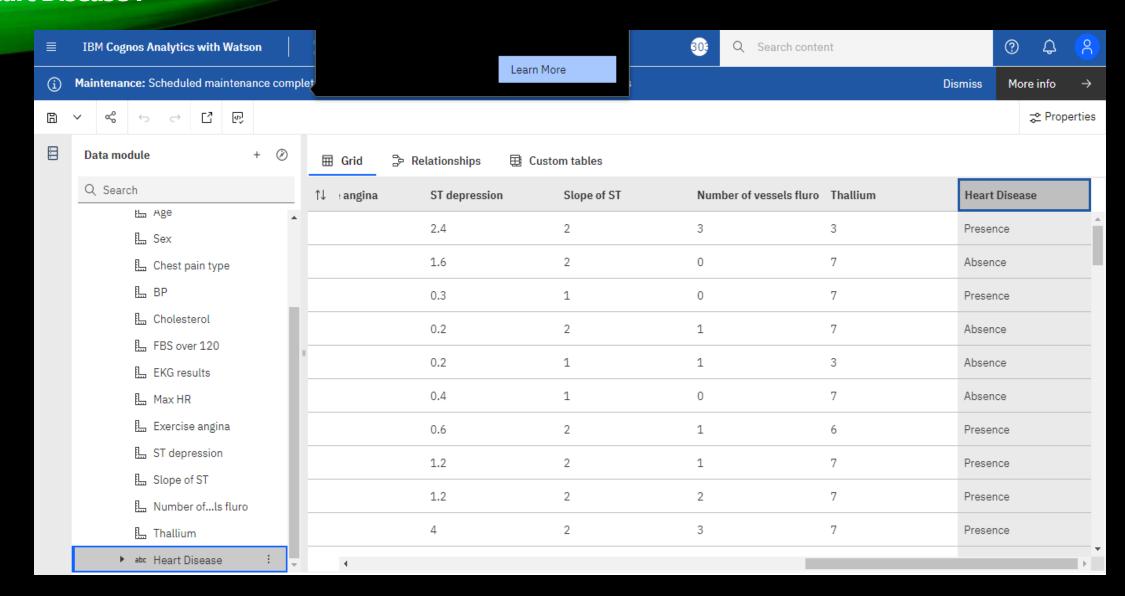
#### **No Of Vessels Fluro:**



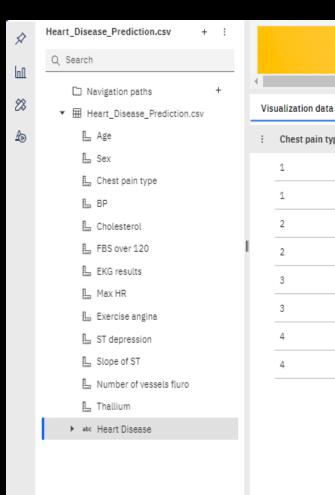
## Thallium:



#### **Heart Disease:**



## Average age for different chest pain:



#### Average Age For Different Chest Pain Types

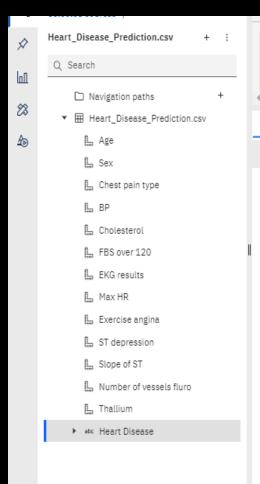
÷	Chest pain type	Sex	Age
	1	0	63.25
	1	1	54
	2	0	51.44
	2	1	51.15
	3	0	55.19
	3	1	52.98
	4	0	57.2
	4	1	54.99

Heart\_Disease\_Prediction.csv

Activate Windows
Go to Settings to activate Windows.

## **Average Exercise Angina During Chest Pain:**

Visualization data



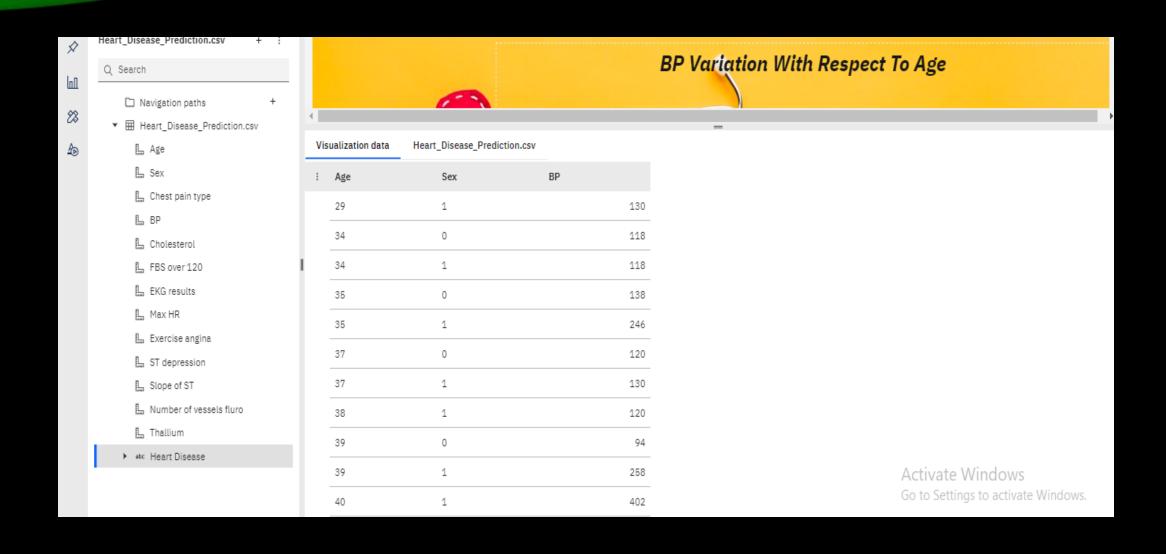
#### Average Exercise Angina During Chest Pain

i	Sex	Chest pain type	Exercise angina
	0	1	0
	0	2	2
	0	3	2
	0	4	14
	1	1	4
	1	2	2
	1	3	9
	1	4	56

Heart\_Disease\_Prediction.csv

Activate Windows
Go to Settings to activate Windows.

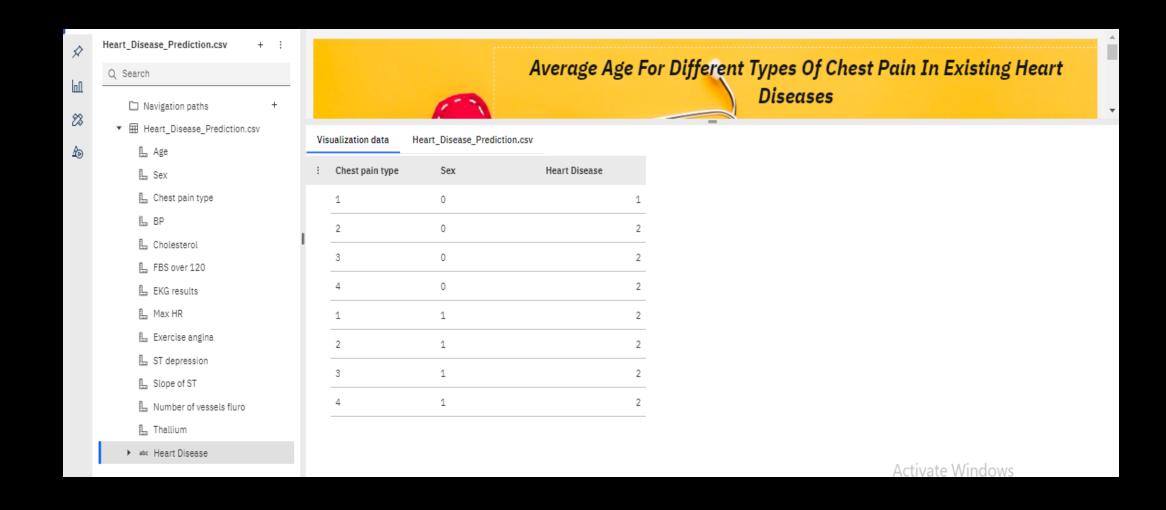
## **BP Variation with respect to Age:**



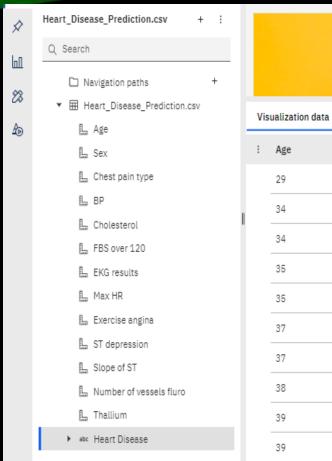
## **Effect of Existing Heart disease on Average of Exercise Angina:**



## **Average Age for Different types of Chest pain in Existing Heart Disease:**



## Serum Cholesterol level Vs Age:



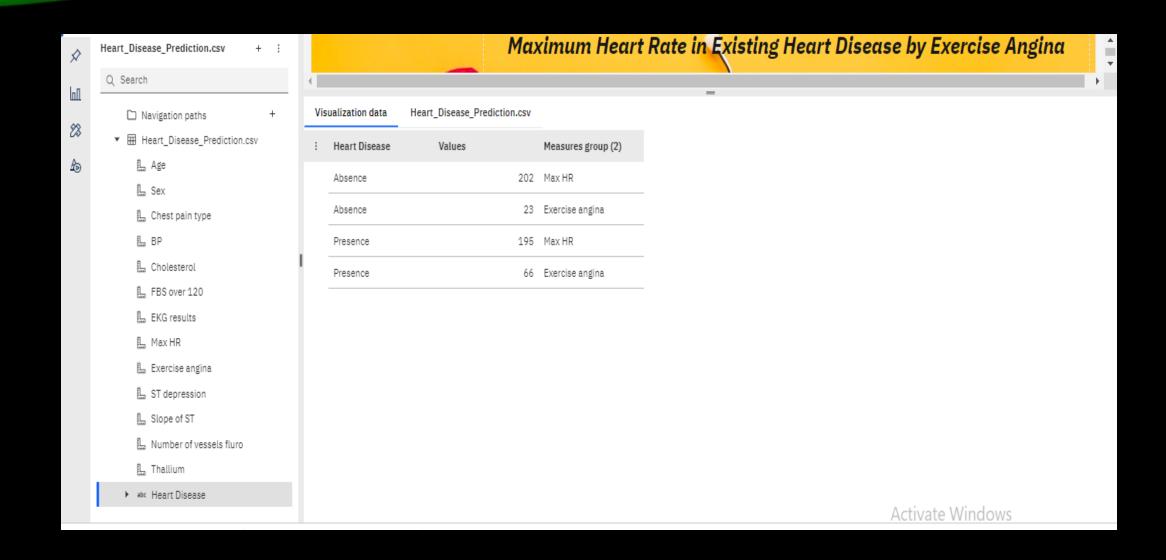


Activate Windows

:	Age	Sex	Cholesterol
	29	1	204
	34	0	210
	34	1	182
	35	0	183
	35	1	480
	37	0	215
	37	1	250
	38	1	231
	39	0	199
	39	1	540

Heart\_Disease\_Prediction.csv

## Max HR in Existing Heart disease by Exercise Angina:



#### PREPARED DATA

Heart disease Module link:

https://us3.ca.analytics.ibm.com/bi/?perspective=ca-

modeller&pathRef=.public folders%2FData%2Bmodule%2FHeart%2BDisease%2

**Bmodule**