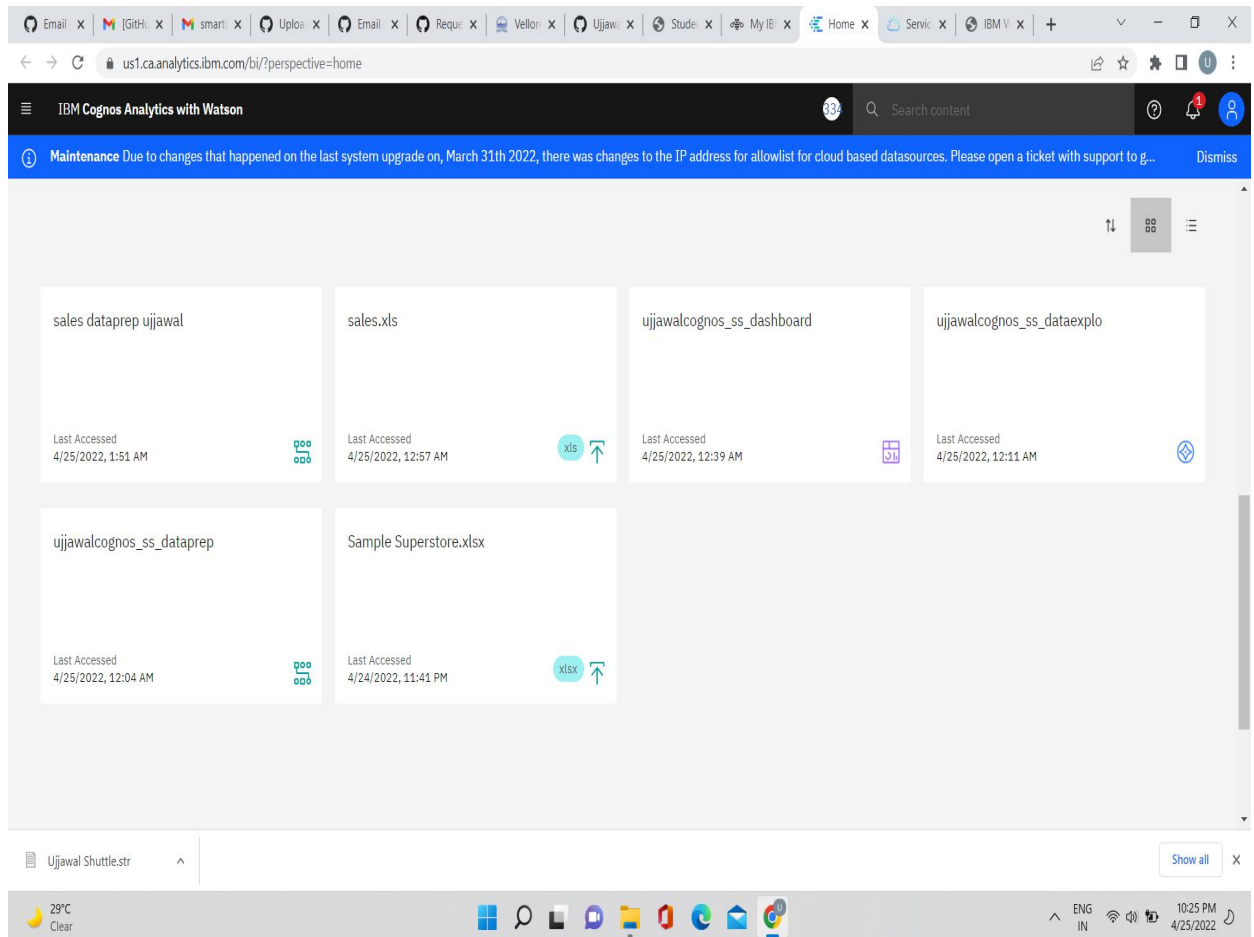


ASSESSMENTS OF DATA ANALYTICS UJJAWAL WORKSPACE

**-19BIT0072
VIT VELLORE**

Assignment -1 Cognos data analysis :

LINKS FOR COGNOS WORKS:-



Sample superstore dataprep:-

https://us1.ca.analytics.ibm.com/bi/?perspective=ca-modeller&pathRef=.my_folders%2Fujjawalcognos_ss_dataprep

Sample superstore dataexplo:-

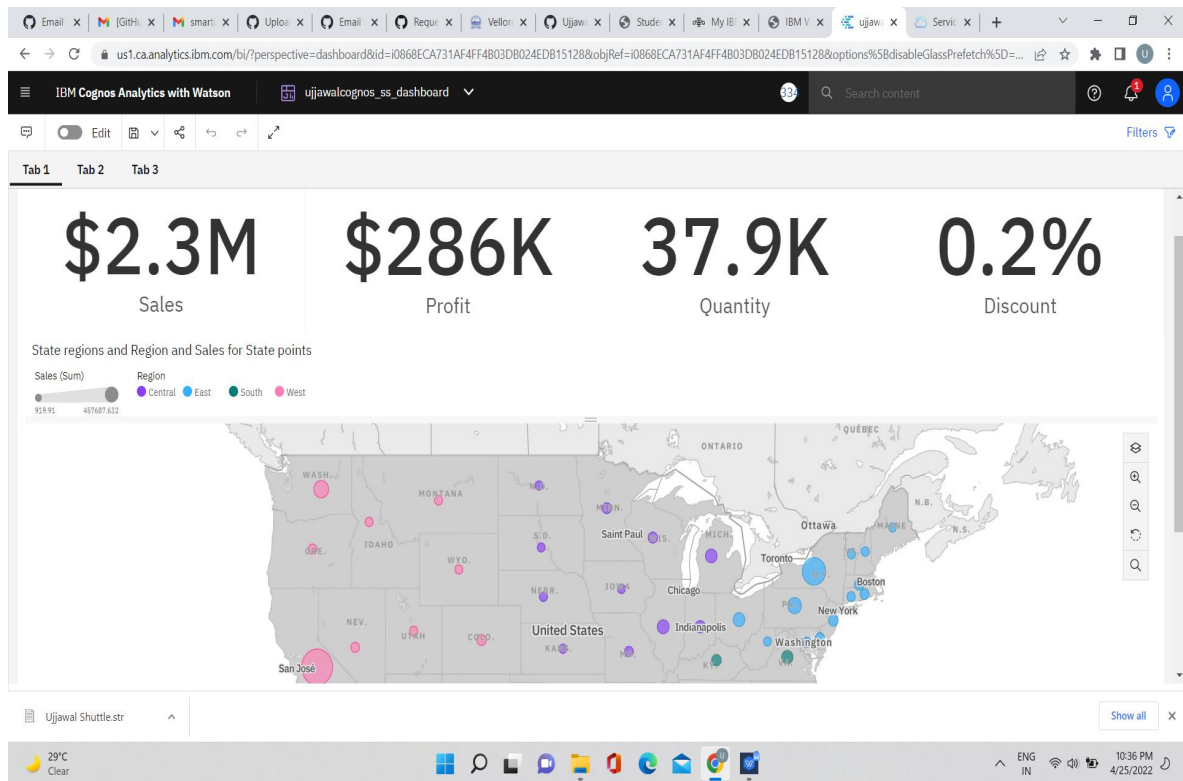
https://us1.ca.analytics.ibm.com/bi/?perspective=explore&pathRef=.my_folders%2Fujjawalcognos_ss_dataexplo

Sample superstore dashboard:-

https://us1.ca.analytics.ibm.com/bi/?perspective=dashboard&pathRef=.my_folders%2Fujjawalcognos_ss_dashboard&action=view&mode=dashboard

Union of 3 sales table :

The screenshot displays the IBM Cognos Analytics web interface. At the top, a navigation bar includes the IBM Cognos Analytics logo, a search bar, and a user profile icon. Below the navigation bar, a blue banner indicates a maintenance update. The main workspace is divided into two panes. The left pane, titled 'Data module', contains a search bar and a list of data modules: 'New data module', 'Navigation paths', 'all orders', 'Orders', 'Rest of the Orders', and '2009 Orders'. The right pane, titled 'Custom tables', shows a diagram of the 'all orders' data module. This diagram consists of three boxes on the left: '2009 Orders', 'Rest of the Orders', and 'Orders'. Lines connect these three boxes to a single box on the right labeled 'all orders', representing a union of the three tables. The bottom of the interface shows a Windows taskbar with various application icons and a system tray displaying the date and time as 10:34 PM on 4/25/2022.

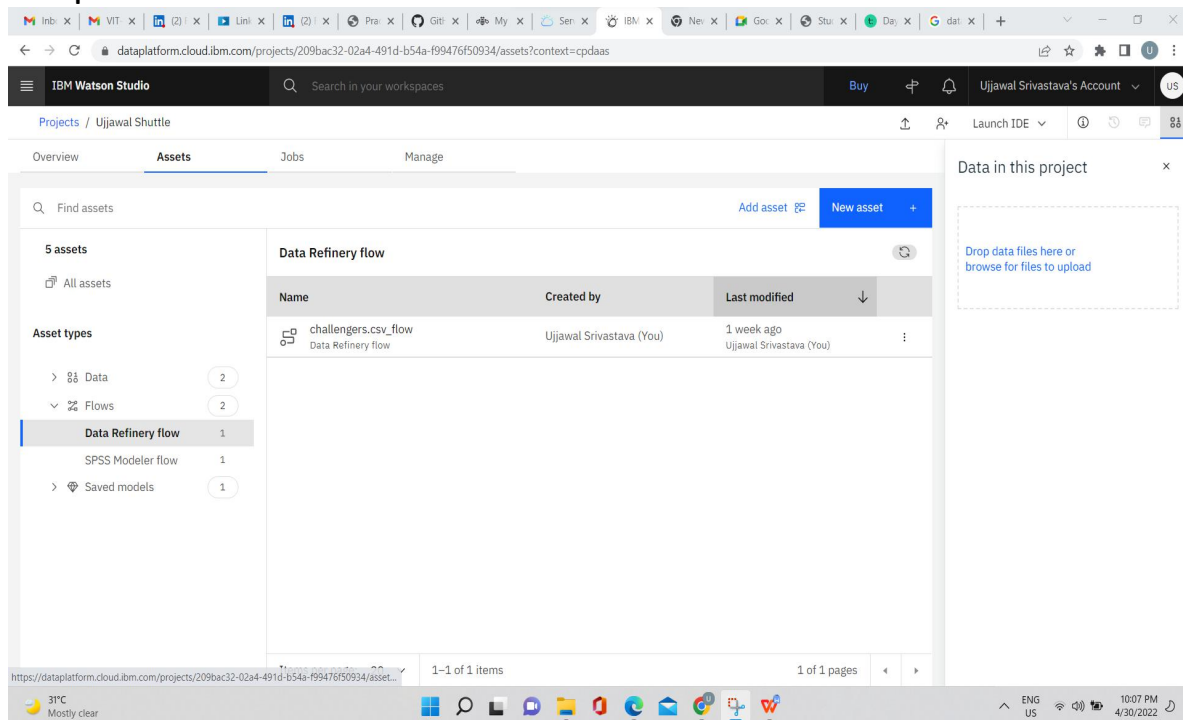


Assignment 2

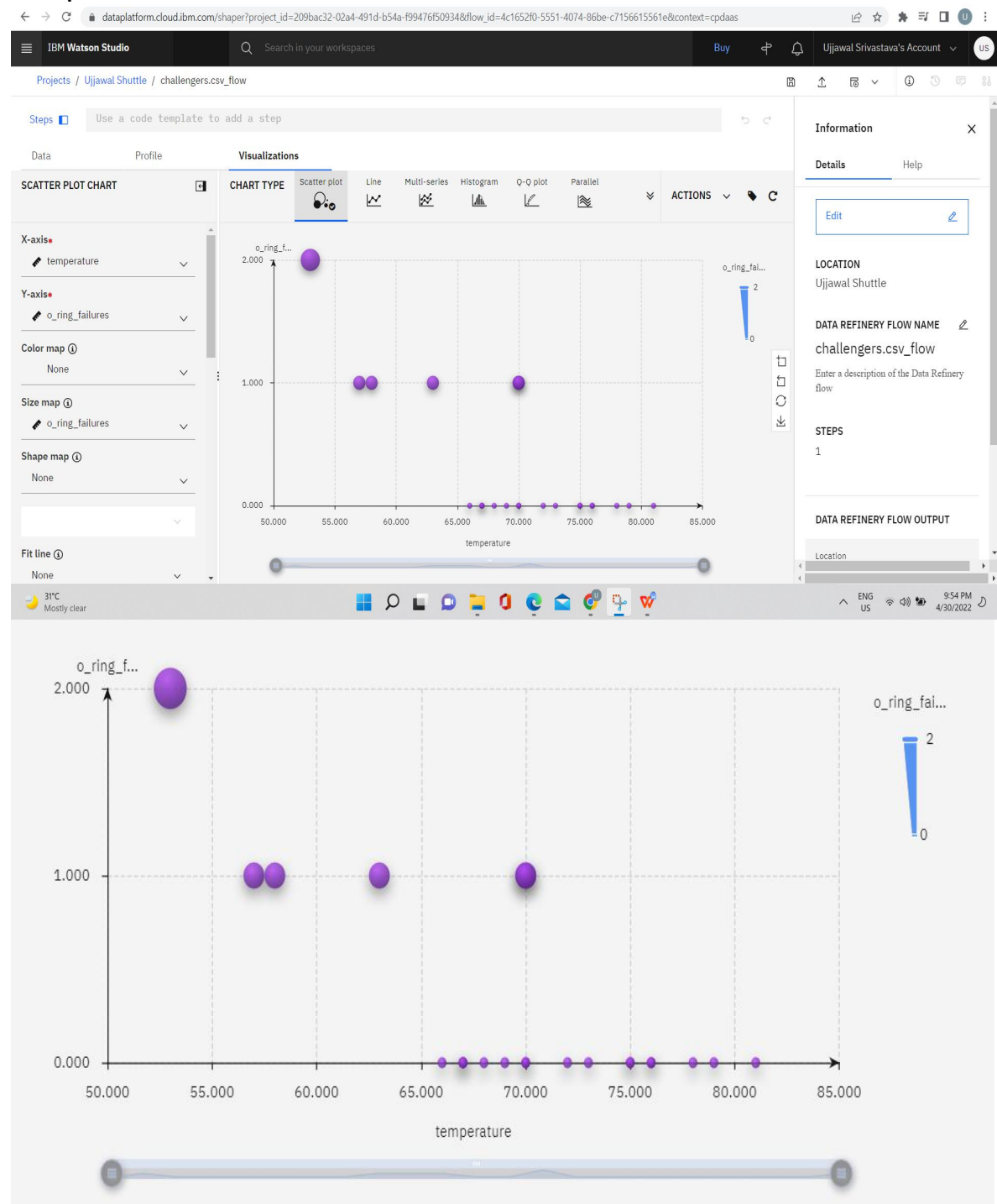
Challengers.csv space shuttle use case :-

data refining :-

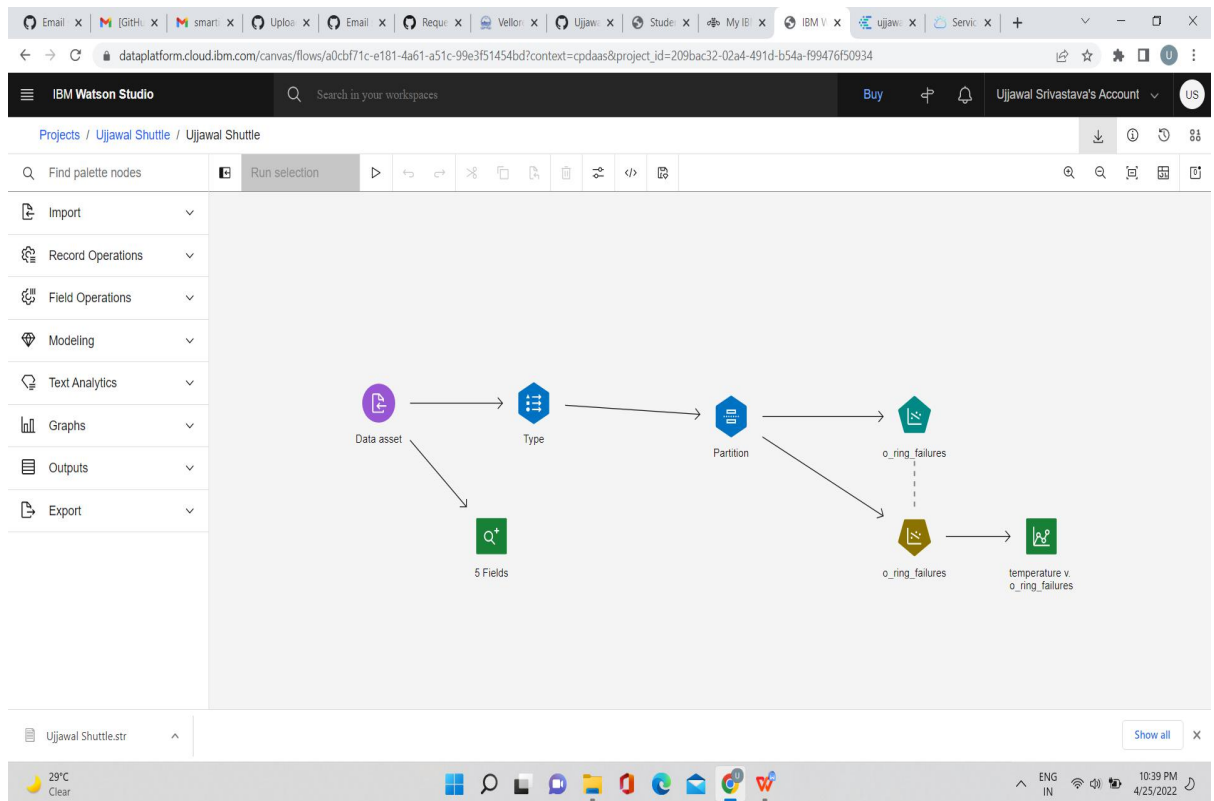
Output of visualization



Output of visualization



Here we are applying regression model on dataset which gives output and then that output is later viewed using plot temperature vs o_ring_failure graph



ASSIGNMENT 3

Diabetes.csv diabetes patient use case study:

REFINING OF DATA SET

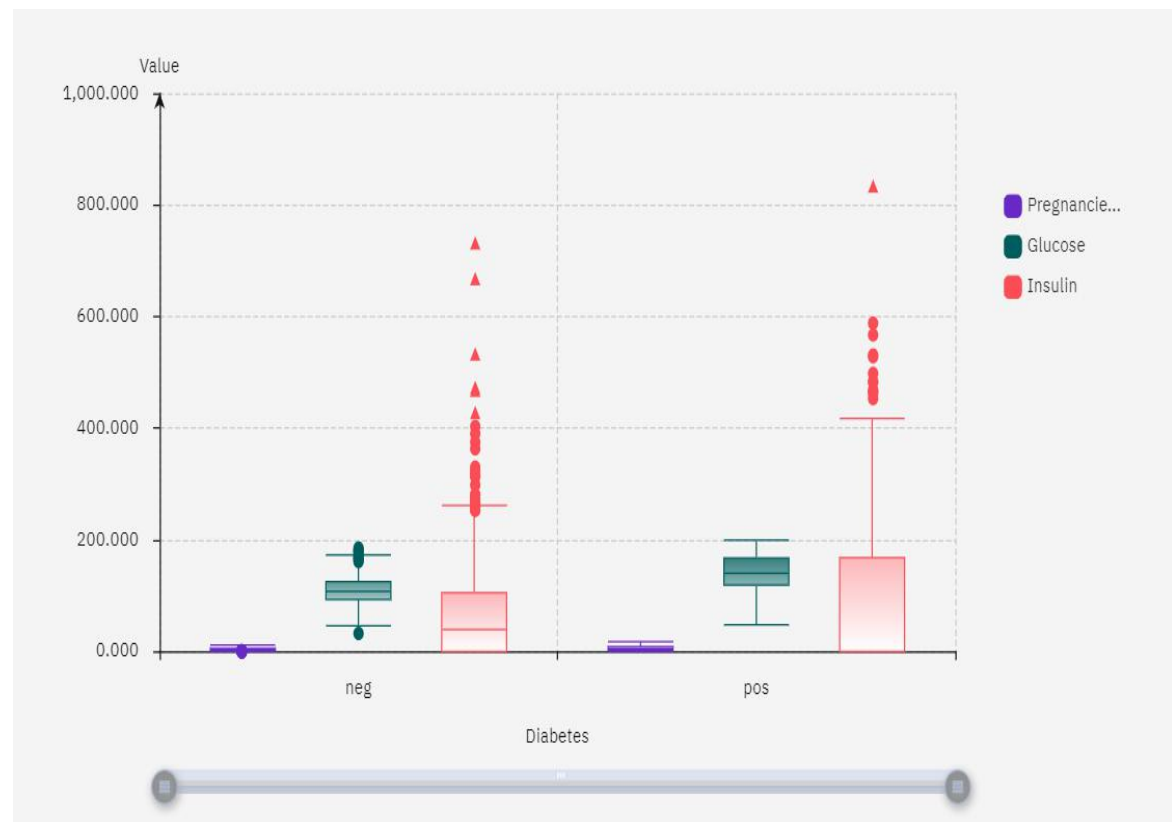
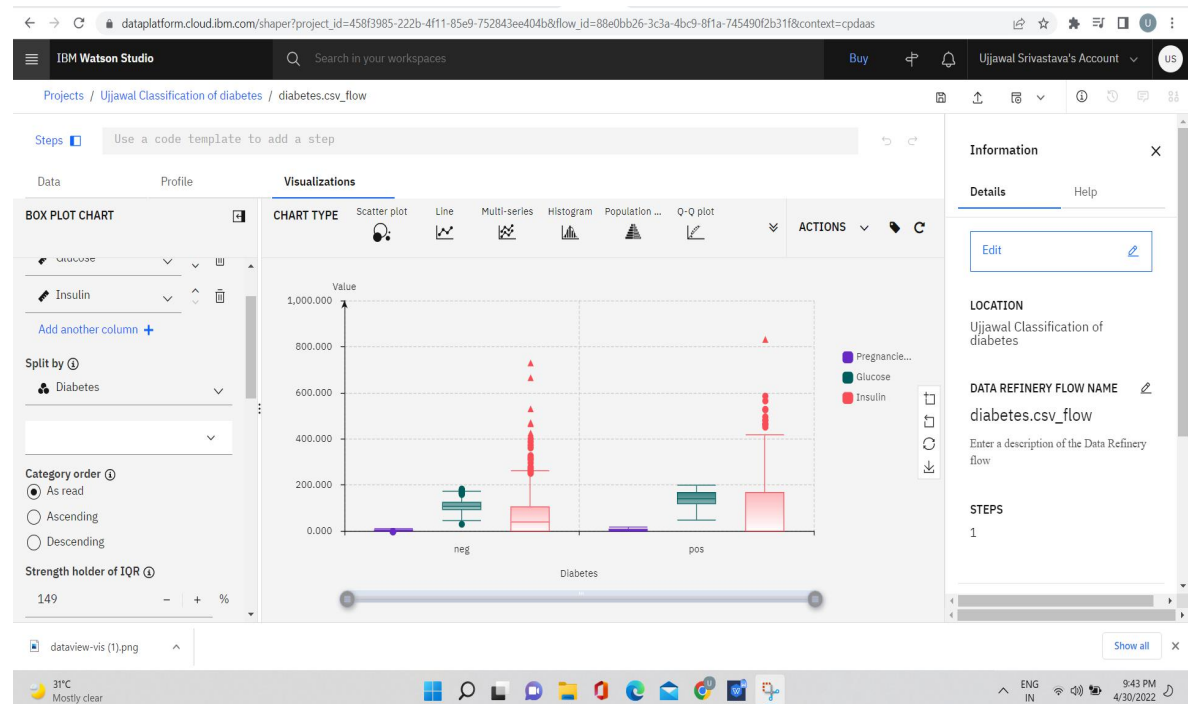
OUTPUT OF VISUALIZATION

The screenshot displays the IBM Watson Studio interface for a project named 'Ujjawal Classification of diabetes'. The top navigation bar includes the IBM logo, a search bar, and user account information. The left sidebar contains a 'Find assets' search bar and a list of asset types: Data (1), Flows (3), Data Refinery flow (1), SPSS Modeler flow (2), and Saved models (4). The main workspace shows a table of assets under the 'Data Refinery flow' category:

Name	Created by	Last modified
diabetes.csv_flow Data Refinery flow	Ujjawal Srivastava (You)	23 hours ago Ujjawal Srivastava (You)

The bottom status bar shows the weather as 30°C Partly cloudy and the time as 10:44 PM on 4/25/2022.

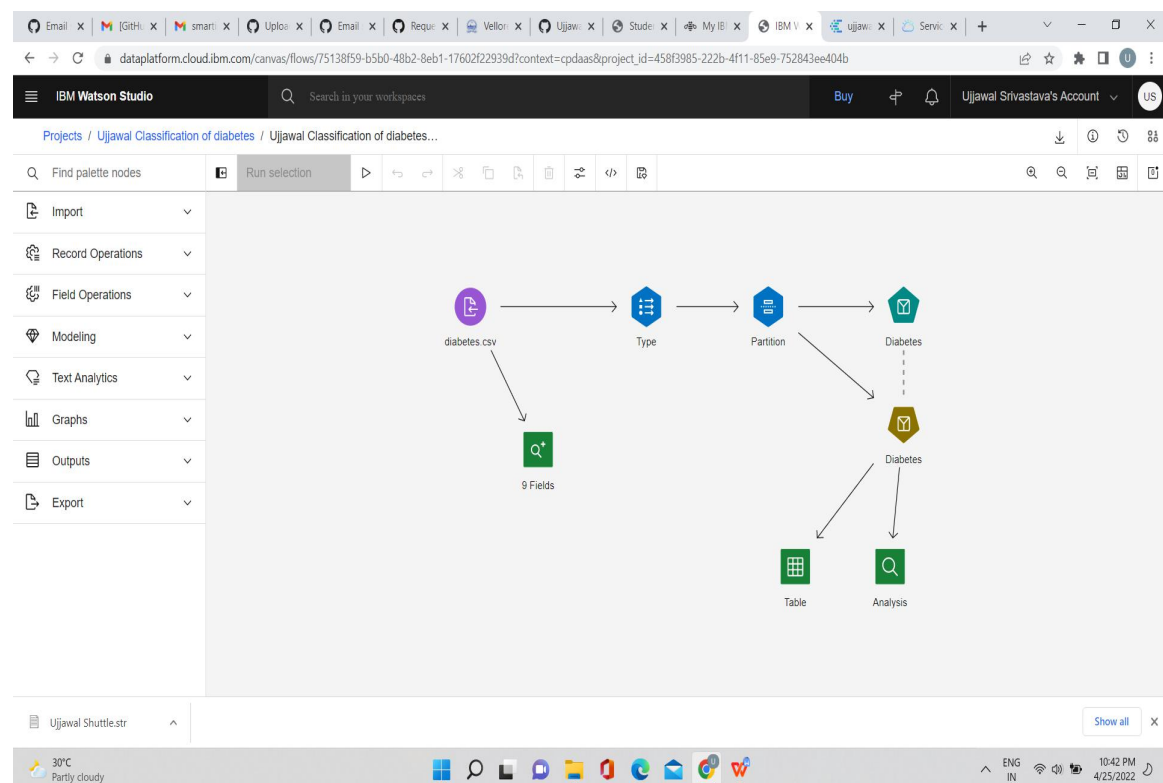
OUTPUT OF VISUALIZATION



First I have used auto classifier and compare output of all classifiers , then adjust the partition parameter and then again run the auto classifier model .

After all these I got in the conclusion that deterministic model gives the maximum accuracy on this dataset

So this image represents the deterministic model diagram



Assignment 4

Mall customers use case :-

Data refining :

Output of visualization

IBM Watson Studio

Search in your workspaces

Buy

Ujjawal Srivastava's Account

US

Projects / mall customer ujjawal

Overview Assets Jobs Manage

Find assets

Add asset

New asset

4 assets

All assets

Asset types

- Data (1)
- Flows (2)
- Data Refinery flow (1)**
- SPSS Modeler flow (1)
- Saved models (1)

Data Refinery flow

Name	Created by	Last modified
Mall_Customers.csv_flow Data Refinery flow	Ujjawal Srivastava (You)	5 days ago Ujjawal Srivastava (You)

Items per page: 20 1-1 of 1 items 1 of 1 pages

Drop data files here or browse for files to upload

31°C Mostly clear

ENG US 10:09 PM 4/30/2022

Output of visualization

IBM Watson Studio

Search in your workspaces

Buy

Ujjawal Srivastava's Account

US

Projects / mall customer ujjawal / Mall_Customers.csv_flow

Steps

Use a code template to add a step

Data Profile Visualizations

BOX PLOT CHART

Columns

- Spending Score (1-1)
- Annual Income (k\$)
- Add another column

Split by

- Gender

Category order

- As read
- Ascending
- Descending

Strength holder of IQR

150

CHART TYPE

Scatter plot Line Multi-series Histogram Population ... Q-Q plot

Value

150,000

120,000

90,000

60,000

30,000

1,000

Female Male

Gender

Spending S... Annual Inc...

Information

Details Help

Edit

LOCATION

mall customer ujjawal

DATA REFINERY FLOW NAME

Mall_Customers.csv_flow

Enter a description of the Data Refinery flow

STEPS

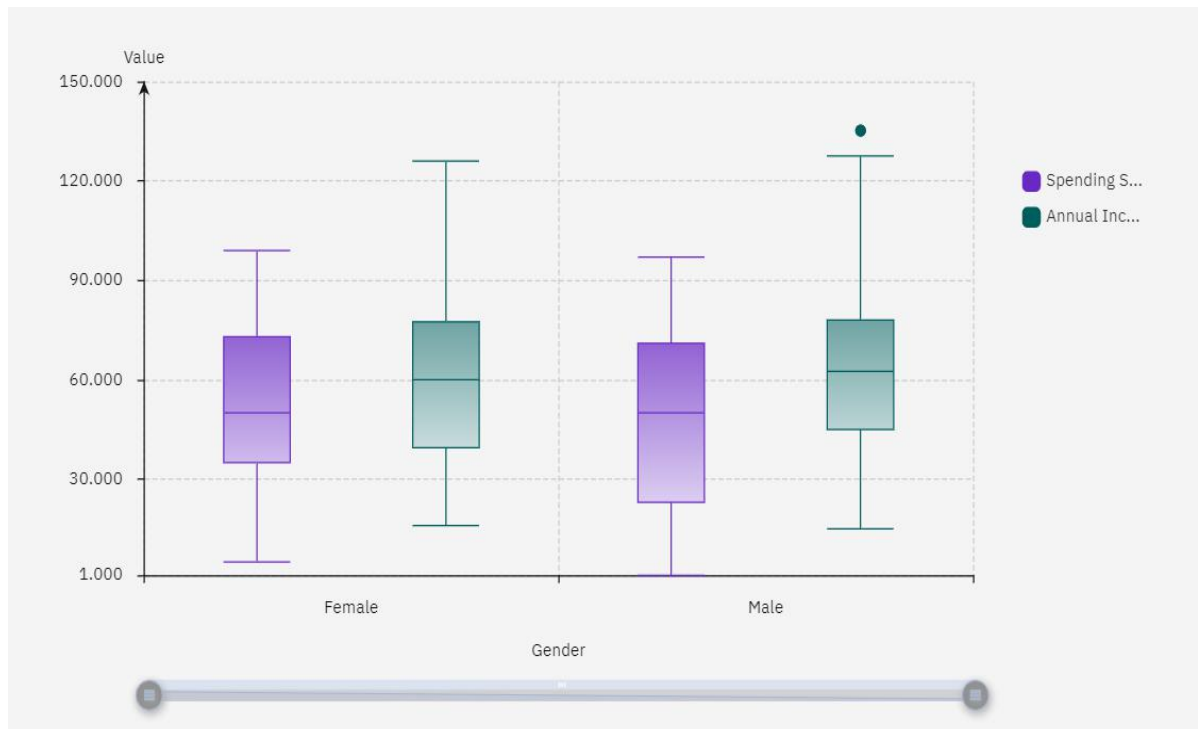
1

DATA REFINERY FLOW OUTPUT

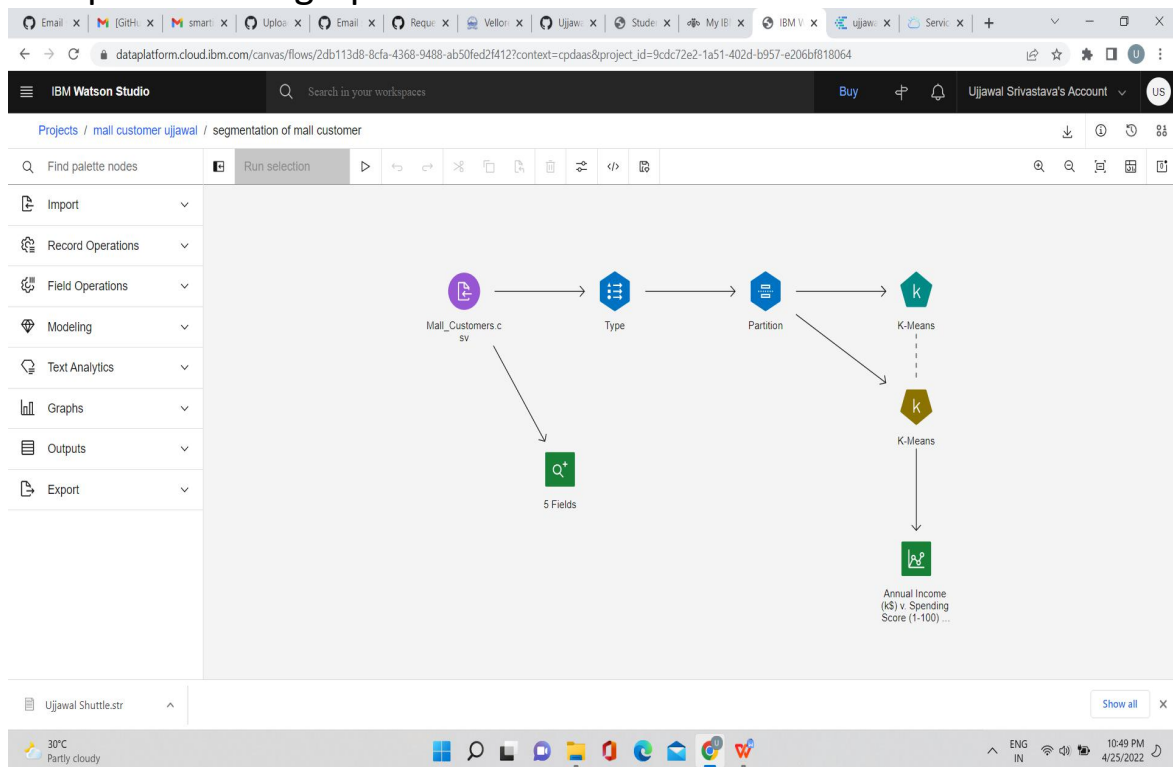
Location

31°C Mostly clear

ENG US 10:00 PM 4/30/2022



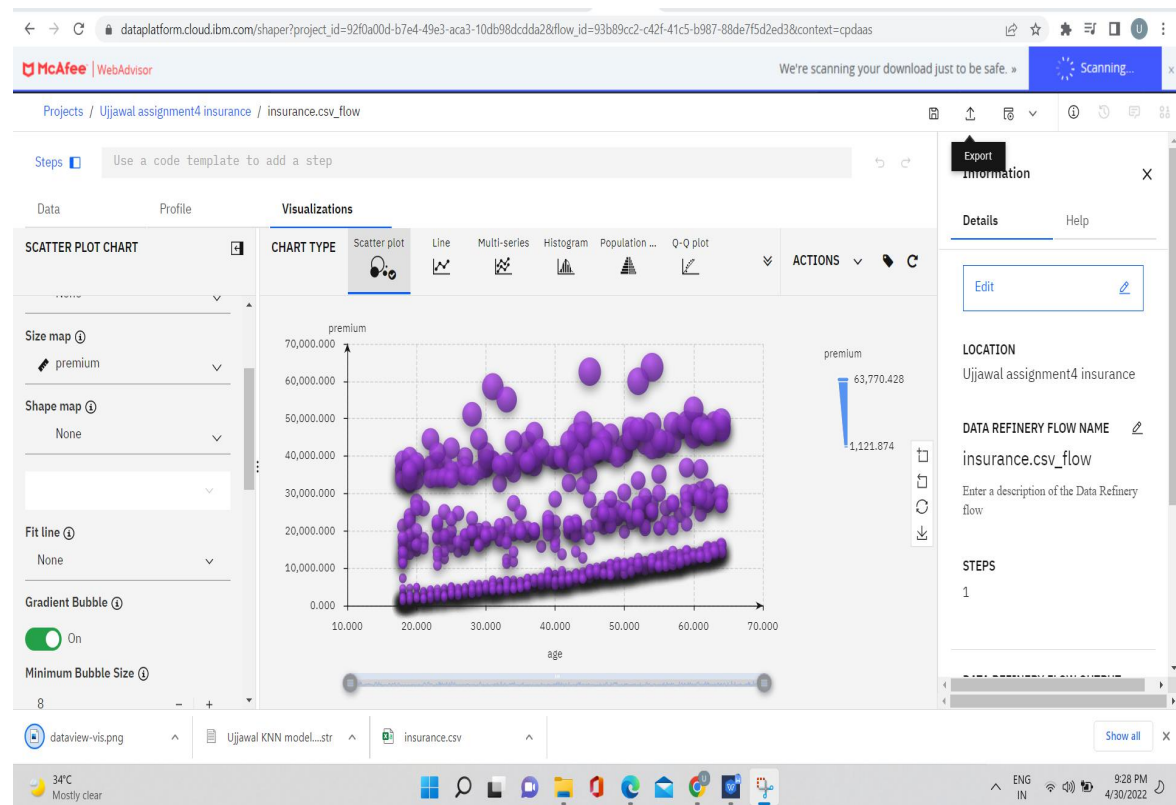
Here we used K-Means of cluster modeling
And plotted 3-D graph



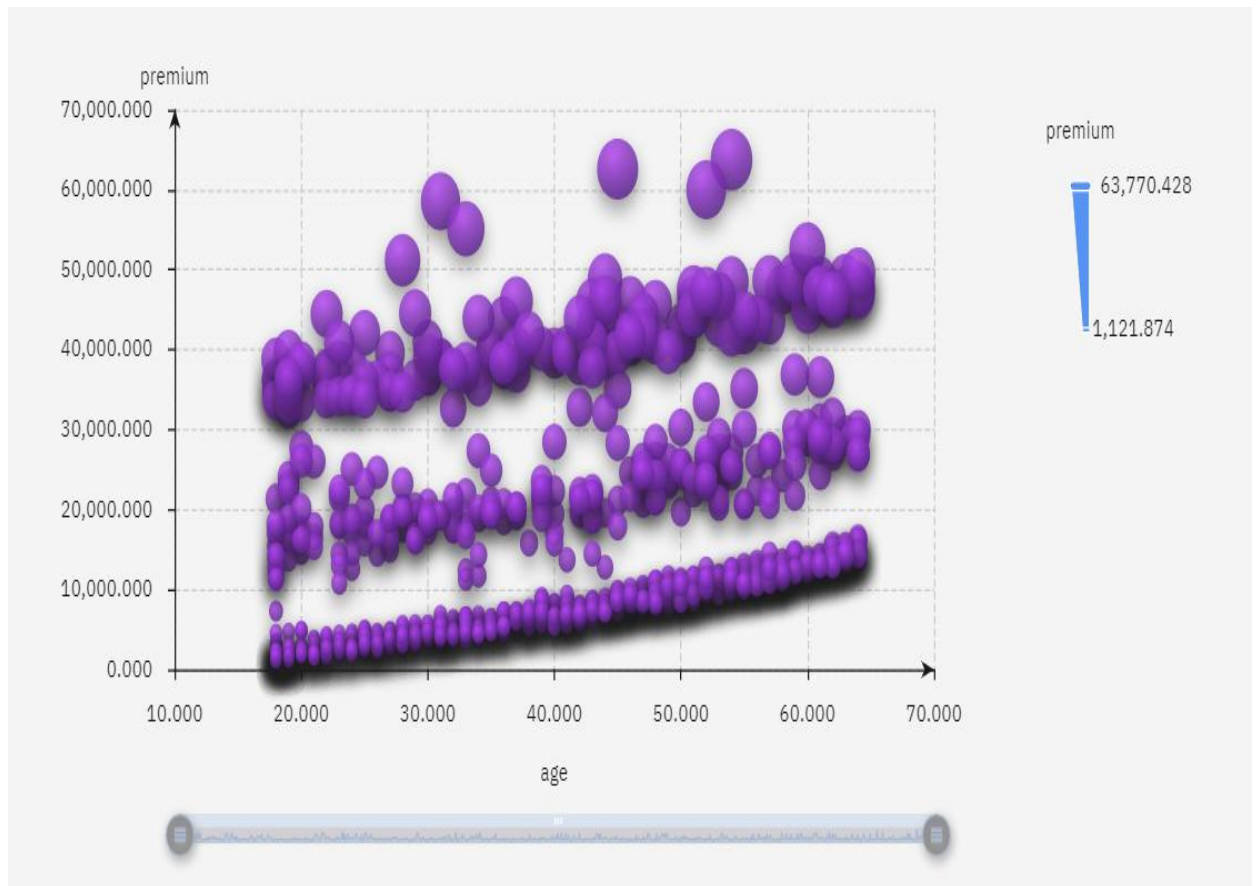
ASSIGNMENT 4

INSURANCE DATASET :

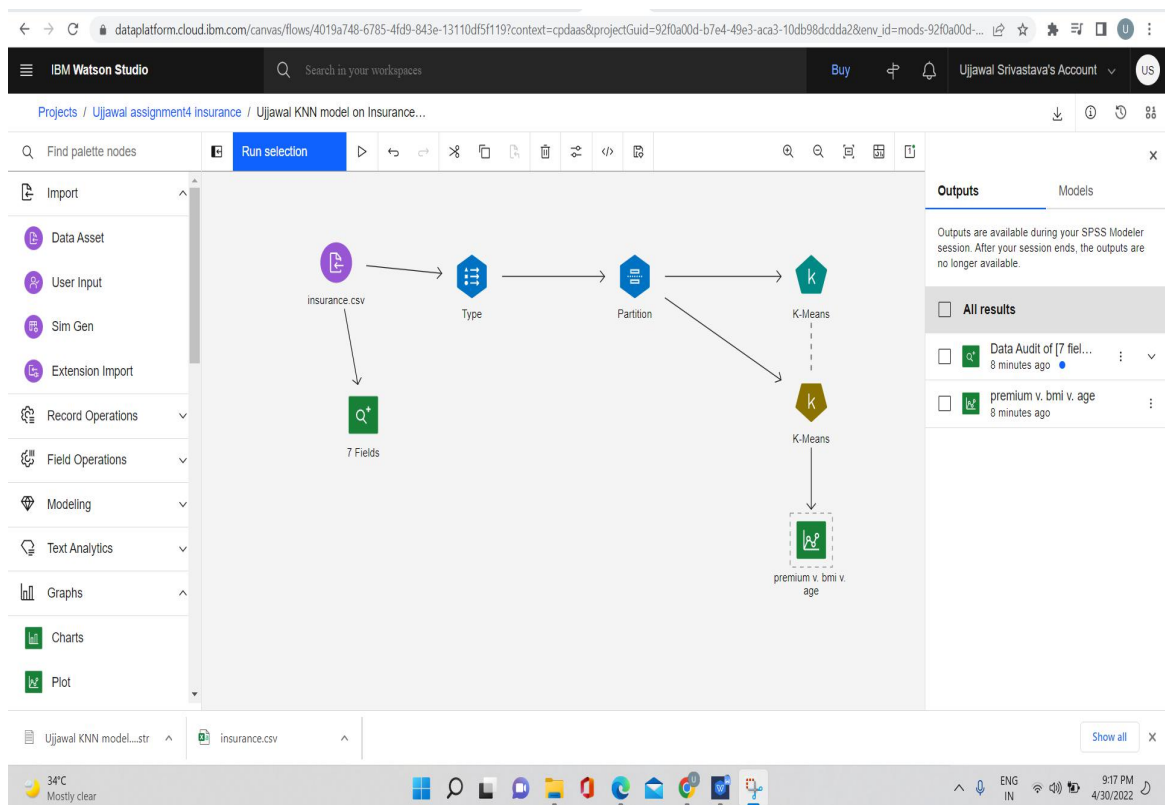
REFINING OF DATA :



This is age vs premium graph (we can change the type of graph as well as field of graph to analyze all the aspects of dataset)



BUILDING CLUSTER DATA MODEL USING K MEAN :



CLUSTER GRAPH OUTPUT :-

