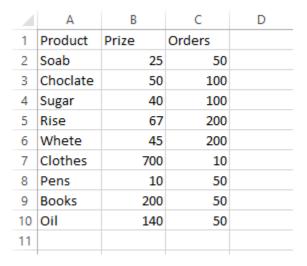
Practical No.1

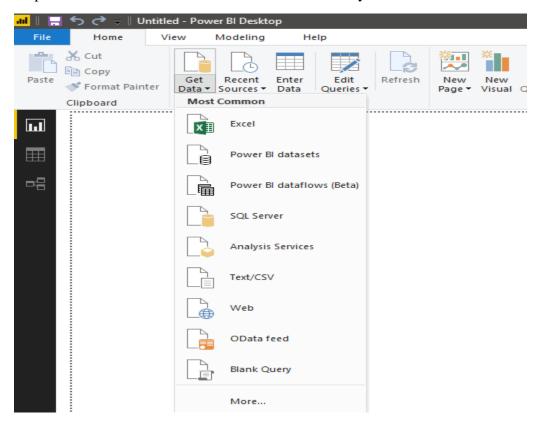
Aim: Import legacy data from Excel and load in the targeted system.

Step 1: For this first create Excel file.



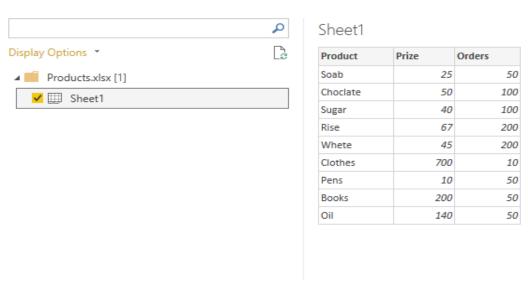
Step 2: Open Power Bi Desktop.

Step 3: Go to Home -> Get data -> Excel and browse your excel file.

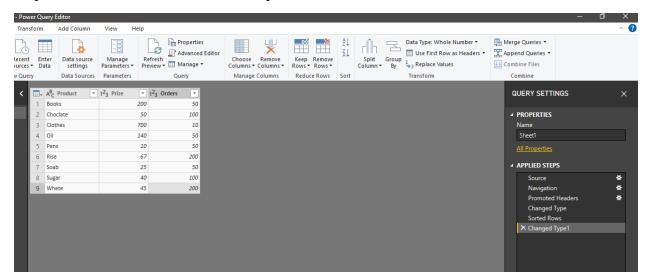


Step 4: In the navigation tab, select your (sheet1) from database (products.xlsx).





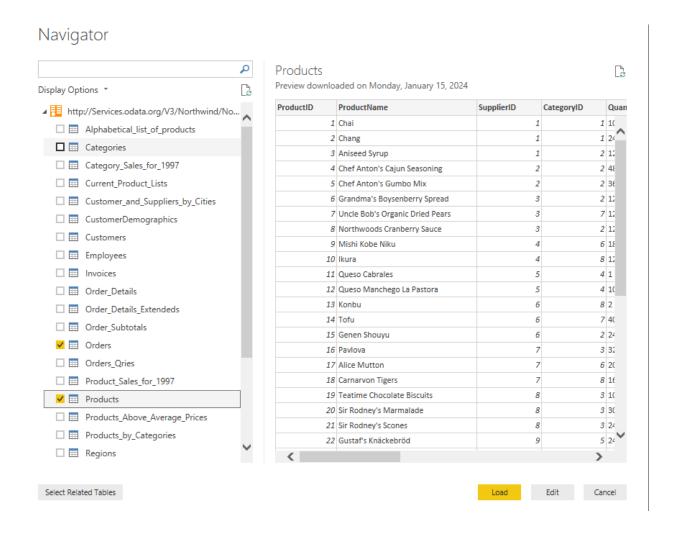
Step 5: You will obtain this screen for queries.



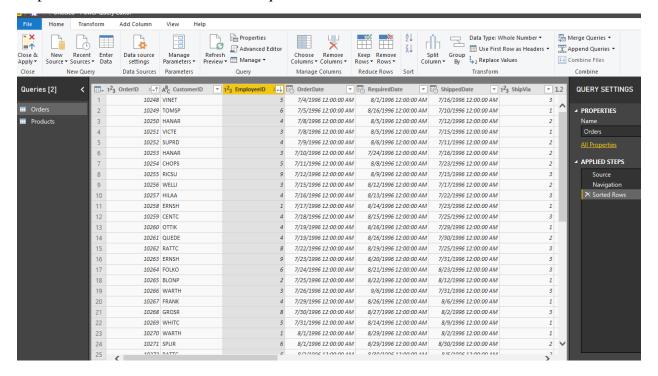
Step 6: Step 3: Go to Home -> Get data -> Odata feed and type url.



Step 7: From server Select orders and products table -> click on load



Step 8: You will obtain this screen for queries.

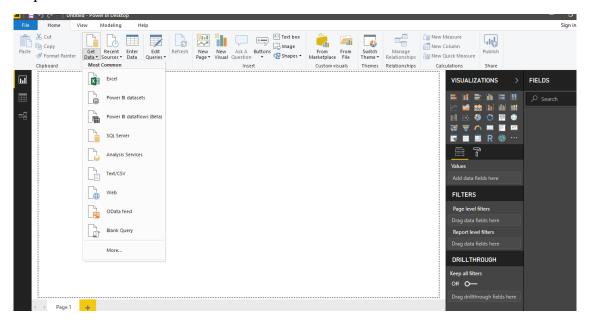


PRACTICAL 2

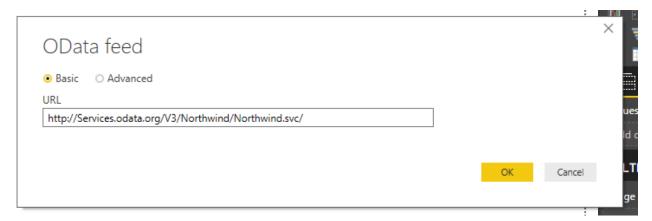
Aim:- Perform the extraction transformation and loading(ETL) process to construct database in the SQL server/Power BI.

Step 1: Open Power Bi desktop.

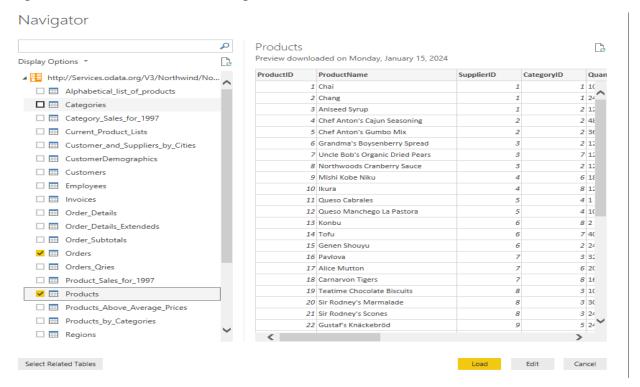
Step 2: Go to Home -> Get Data -> Odata Feed



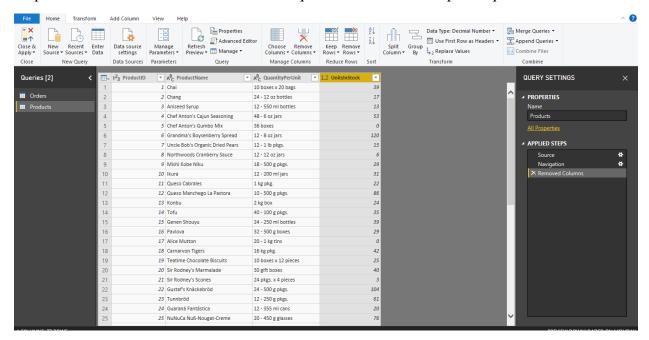
Step 3: Paste Url



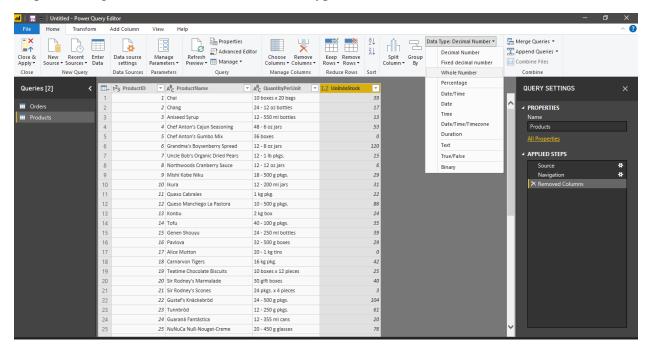
Step 4: From server Select order and products table -> click on edit .



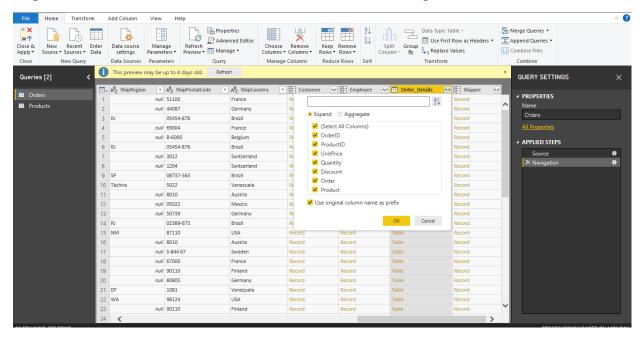
Step 5: Select Product Table -> Delete Unrequired Columns -> Keep 4 Required Column.



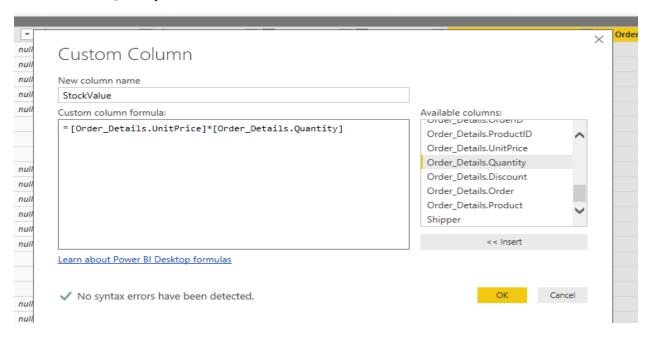
Step 6 : Change UnitsInStock Column to data type from decimal to whole number.



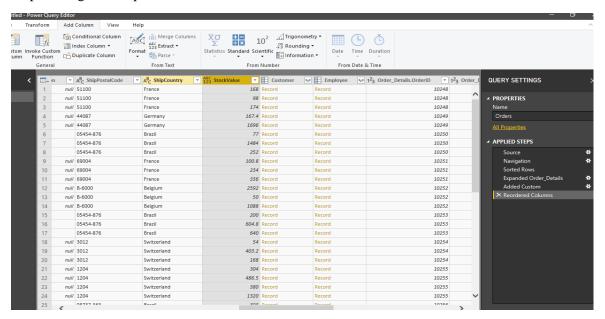
Step 7: Select Order Table -> Go to column OrderDetails -> Expand Column -> Click OK



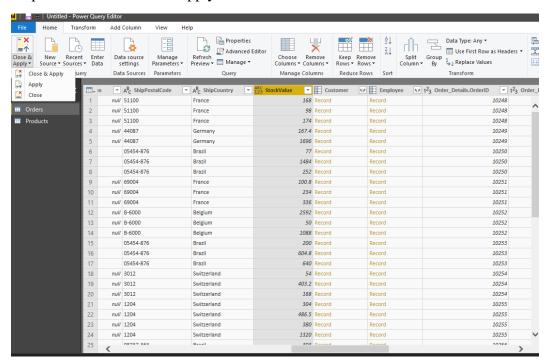
Step 8: Go to Add Column -> select Custom column -> Give name StockValue and Insert UnitPrice and Quantity -> click ok.



Step 9: Drag and drop the column StockValue.



Step 10: select Close and Apply.



Practical No 3

Aim: Create the cube with suitable dimension and fact tables based on OLAP.

1. Creating Data Warehouse Let us execute our T-SQL Script to create data warehouse with fact tables, dimensions and

populate them with appropriate test values. Download T-SQL script attached with this article for creation of Sales Data Warehouse or

download from this article "Create First Data Warehouse" and run in your SQL Server. Downloading "Data Warehouse SQLScript.zip" from the article. https://www.codeproject.com/Articles/652108/Create-First-DataWareHouse

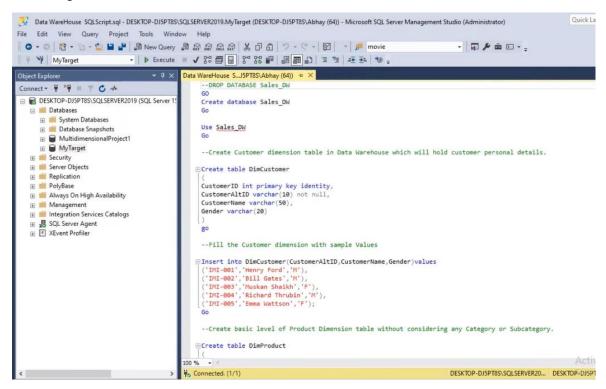
- 2. After downloading extract file in folder. Follow the given steps to run the query in SSMS (SQL Server Management Studio). Open SQL Server Management Studio 2012
- 3. Connect Database Engine

Click Connect. Open New Query editor

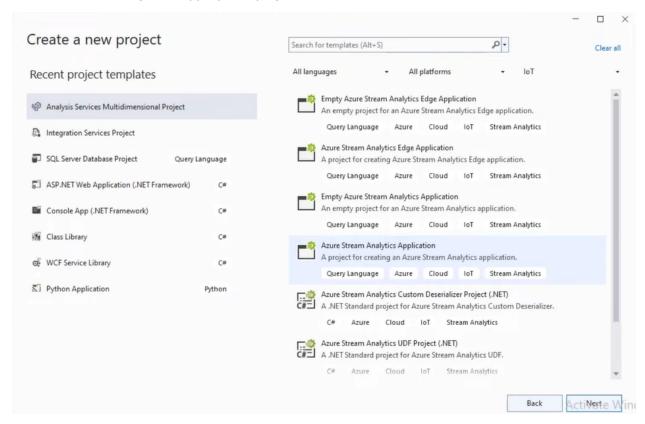
- 4. Copy paste Scripts given below in various steps in new query editor window one by one
- 5. To run the given SQL Script, press F5
- 6. It will create and populate "Sales DW" database on your SQL Server

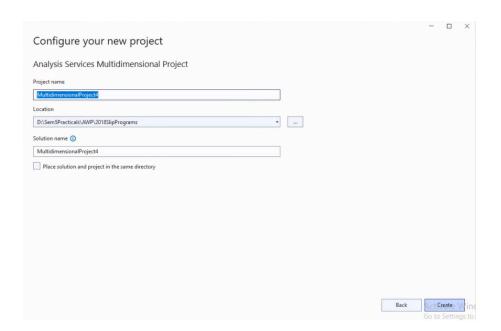
OR

1. Go to the extracted SQL file and double click on it. 2. New SQL Query Editor will be opened containing

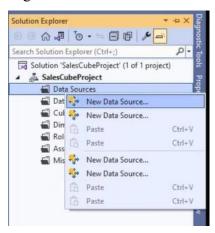


Step 2: Start SSDT environment and create New Data Source. Go to SQL Server Data Tools \rightarrow Right click and run as administrator Click on File \rightarrow New Project In Business Intelligence \rightarrow Analysis Services Multidimensional Project \rightarrow appropriate project name \rightarrow click OK.

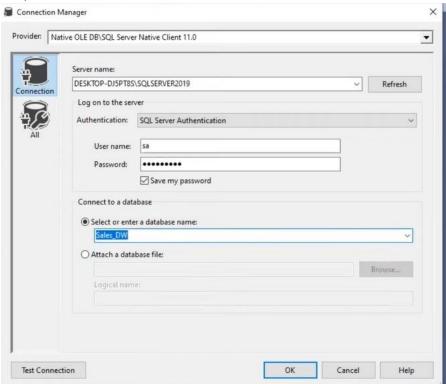




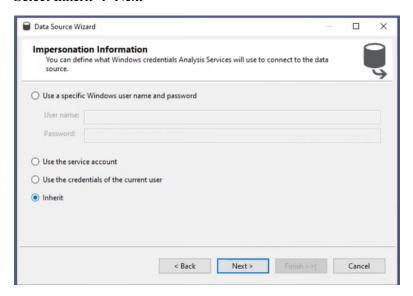
Right click on Data Sources in solution explorer → New Data Source.



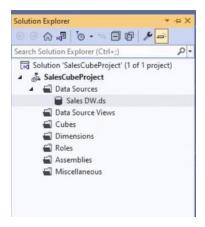
Select Server \rightarrow Name select Use SQL Server Authentication \rightarrow Select or enter a database name (Sales DW). Click Next



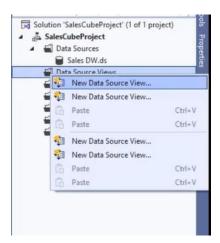
Select Inherit → Next



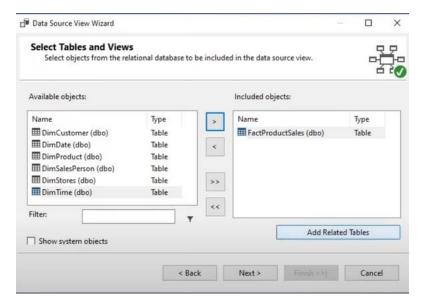
Sales_DW.ds gets created under Data Sources in Solution Explorer

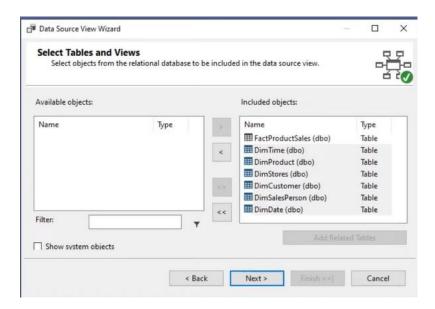


Step 3: Creating New Data Source View in Solution explorer right click on Data Source View Select New Data

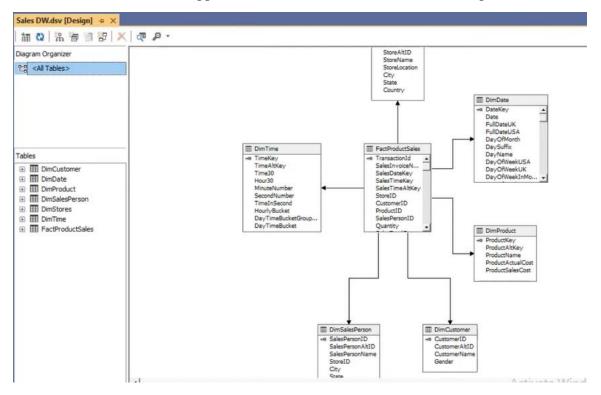


Click Next Select FactProductSales(dbo) from Available objects and put in Includes Objects by click.





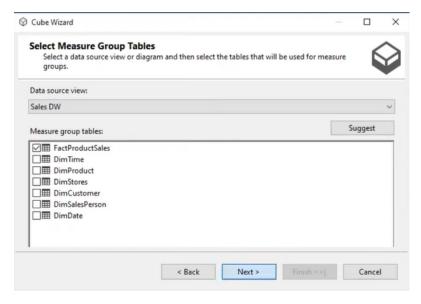
Click Finish Sales DW.dsv appears in Data Source Views in Solution Explorer



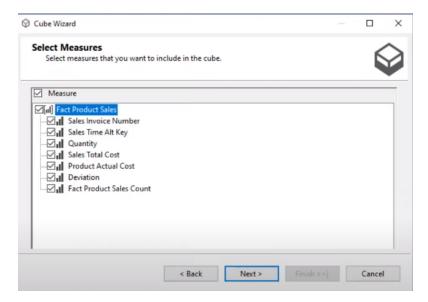
Step 4: Creating new cube Right click on cubes → New Cube



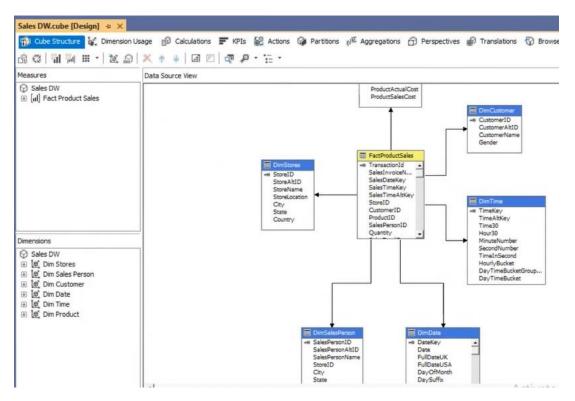
Select Use existing tables in Select Creation Method → Next In Select Measure Group Tables → Select FactProductSales → Click Next



In Select Measures → check all measures → Next



In Select New Dimensions → Check all Dimensions → Next. Click on Finish. Sales_DW.cube is created.

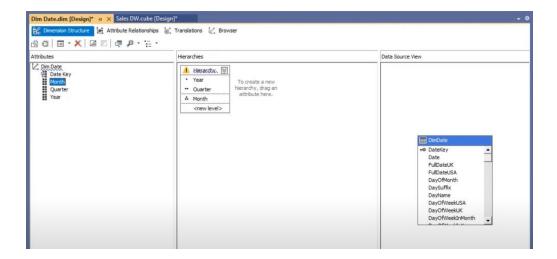


Step 5: Dimension Modification In dimension tab → Double Click Dim Product.dim Step 6: Drag and Drop Product Name from Table in Data Source View and Add in Attribute Pane at left side.

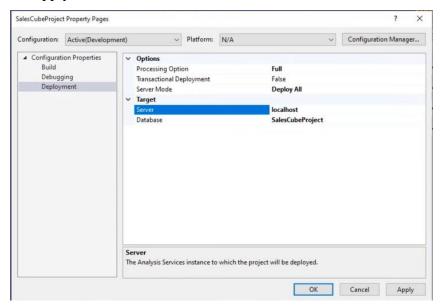


Step 7: Creating Attribute Hierarchy in Date Dimension.

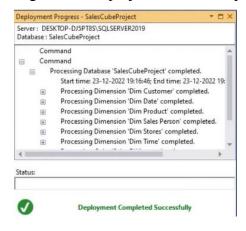
Double click on Dim Date dimension \rightarrow Drag and Drop Fields from Table shown in Data Source View to Attributes \rightarrow Drag and Drop attributes from leftmost pane of attributes to middle pane of Hierarchy. Drag fields in sequence from Attributes to Hierarchy window (Year, Quarter Name, Month, Name, Week of the Month, Full date UK).



Step 8: Deploy Cube Right click on Project name → Properties Do following changes and click on Apply & OK



Right click on project name → Deploy

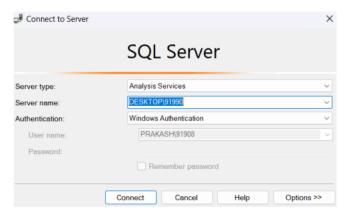


PRACTICAL NO:4

Aim: a) Create the ETL map and set up the schedule for execution.

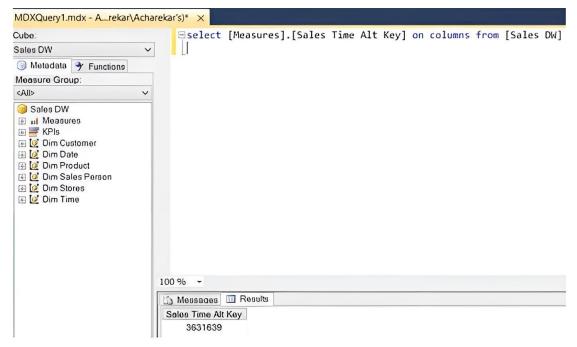
b) Execute the MDX queries to extract the data from the Datawarehouse.

Step 1: Open SQL server Management studio and Connect to Analysis Services.

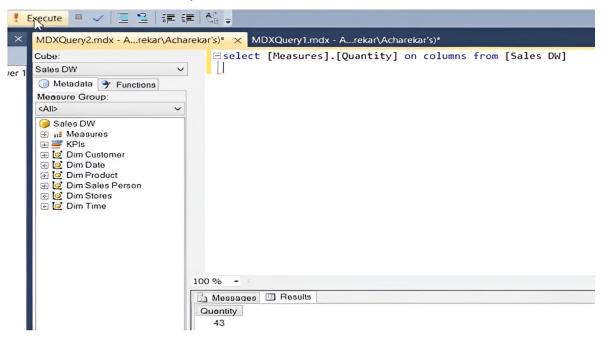


Step 2: Click on new query -> type following queries based on Sales_DW -> then click on Execute.

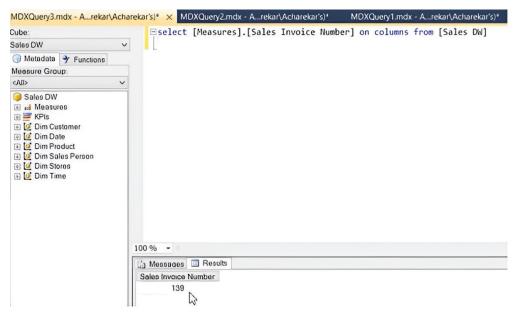
1.select[Measures].[Sales Time Alt Key] on columns from [Sales DW]



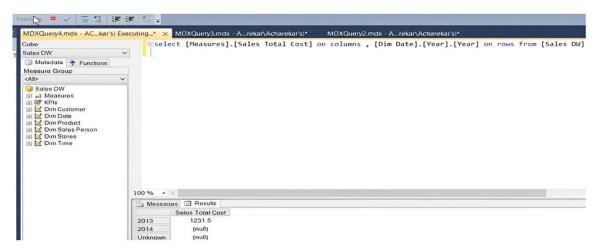
2. select [Measures].[Quantity] columns from [Sales DW]



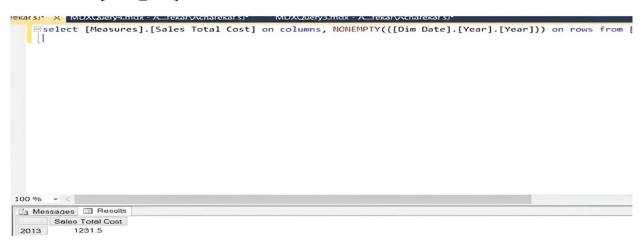
3. select [Measures].[Sales Invoice Number] columns from [Sales DW]



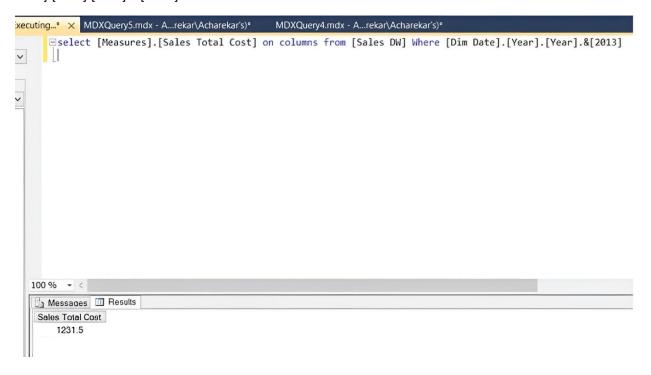
4. Select [Measures].[Sales Total Cost] on columns, [Dim Date].[Year].[Year] on rows from [Sales_DW]



5. Select [Measures].[Sales Total Cost] on columns, NONEMPTY({[Dim Date].[Year].[Year]}) on rows from [Sales_DW]



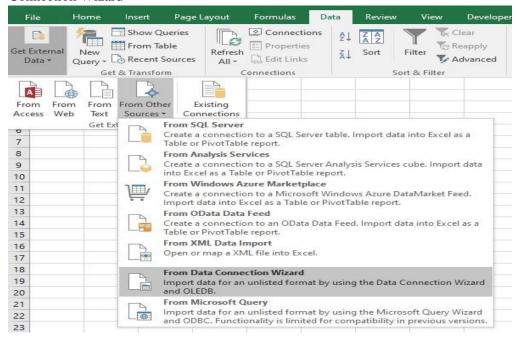
6.Select [Measures].[Sales Total Cost] on columns from [Sales_DW] where [Dim Date].[Year].&[2013]



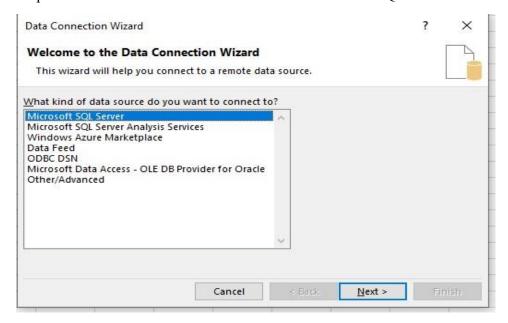
PRACTICAL NO: 5(A)

Aim: Import the Data Warehouse data in Microsoft Excel and create the Pivot table and Pivot Chart.

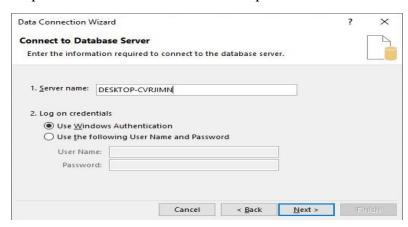
Step 1: Open Excel Go to Data tab \rightarrow Get External Data \rightarrow From Other Sources \rightarrow From Data Connection Wizard



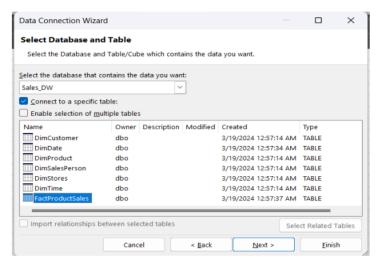
Step 2: In Data Connection Wizard → Select Microsoft SQL Server → Click on Next



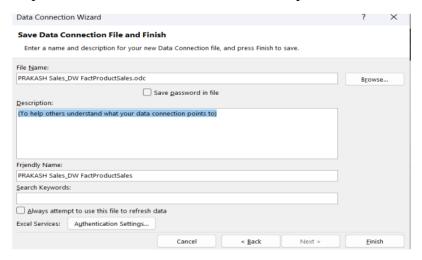
Step 3: In connect to Database Server provide Server name-> Click on Next



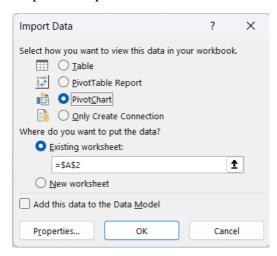
Step 4: In Select Database and Table \rightarrow Select Adventure works (already created in SQL) \rightarrow check all dimensions and import relationships between selected tables -> Click on next.



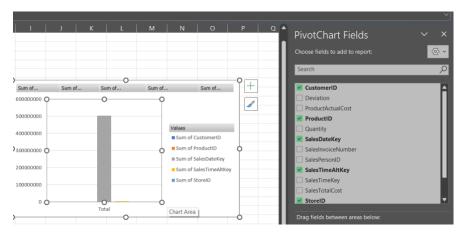
Step 5: In save data connection files browse path and click on Finish



Step 6: In import data select Pivot Chart and click on OK

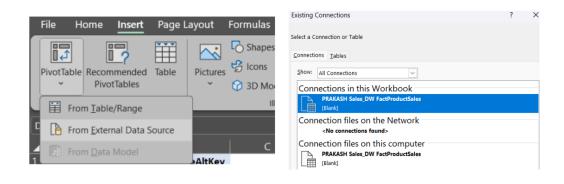


Step 7: Select field to create Pivot Chart

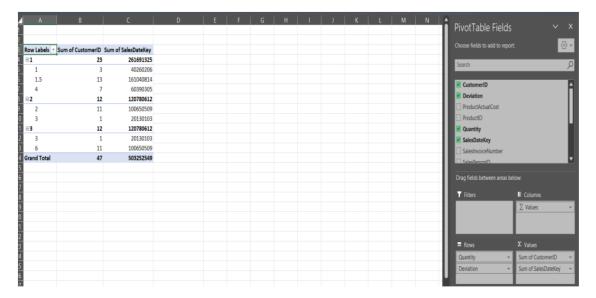


Step 8: In Insert Tab -> Go to Pivot Table

Step 9: Click on choose Connection to select existing connection with Sales_DW and click on open.



Step 10: Select Field to create Pivot Table. You will get this.



PRACTICAL NO: 6

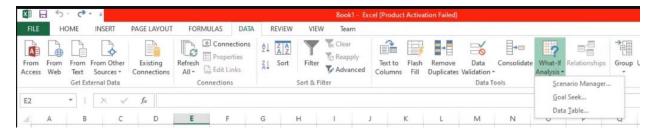
Aim: Apply the what - if Analysis for data visualization. Design and generate necessary reports based on the data warehouse data.

1) Goal Seek Method:

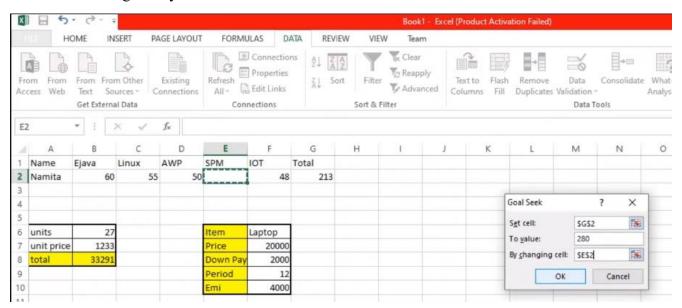
Step 1: Go to Data Tab -> Select the What- if Analysis -> click on goal seek



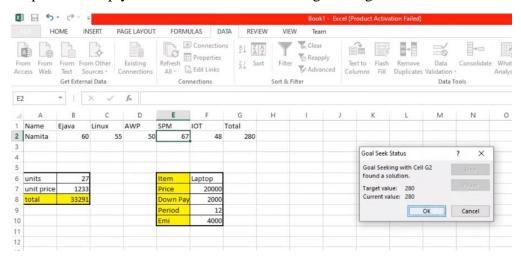
Step 2: Go to Data tab -> What-if Analysis->Click on Goal Seek



Step 3: In "set cells" select the total column and in "By changing sell" select the missing value and in "to value" give any random number.



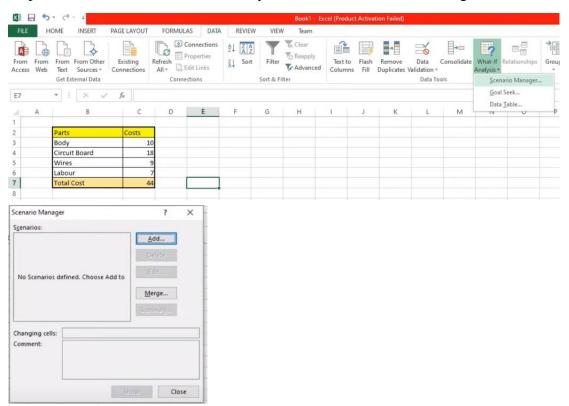
Step 4: The empty value is been filled according to the given condition.

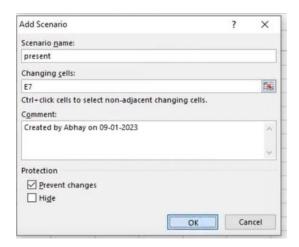


Step 5: Also create one more table.

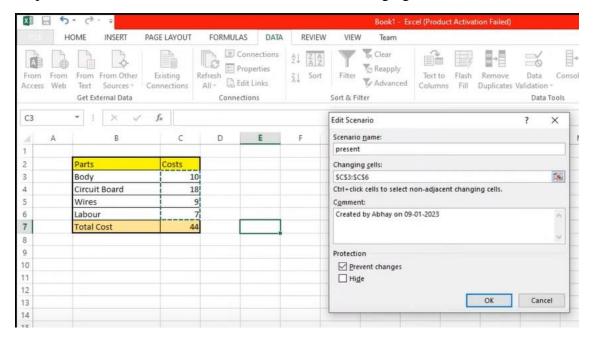


Step 6: Go to Data tab -> What-if Analysis -> Click on Scenario Manager -> Then Click on Add.

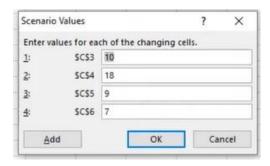


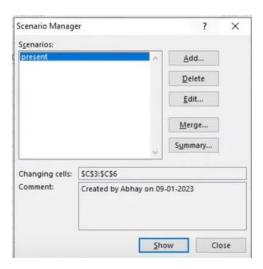


Step 7: Give the scenario name Present -> select the changing cells-> Click on ok

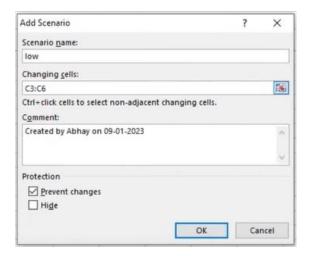


Step 8: Type Scenario present values -> Click on ok

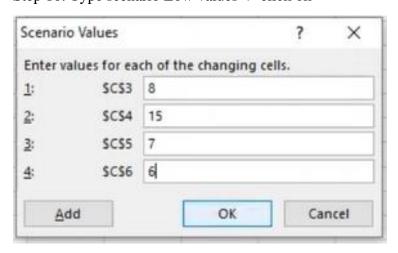


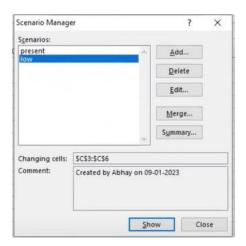


Step 9: Click on Add -> Give the scenario name Low -> select the changing cells -> Click on ok.

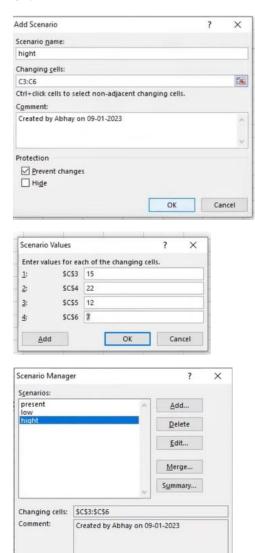


Step 10: Type scenario Low values -> click ok





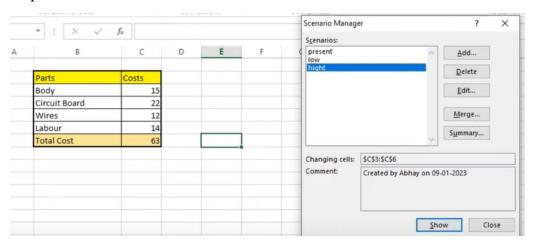
Step 11: Click on Add -> Give the scenario name High -> Select the changing cells -> Click on ok.



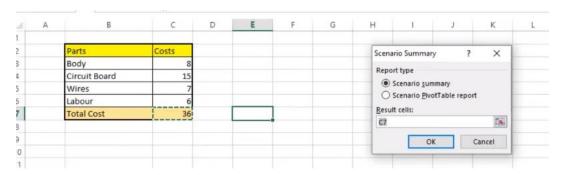
Show

Close

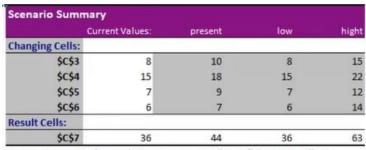
Step 13: Click on Show



Step 14: Click on Summary -> select total cost cell in result cells -> Click on ok.



Step 15: You will get Scenario Summary



Notes: Current Values column represents values of changing cells at time Scenario Summary Report was created. Changing cells for each scenario are highlighted in gray.

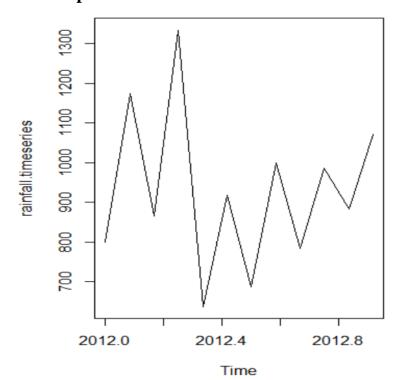
PRACTICAL NO: 7

AIM: Perform the data classification using classification algorithm.

Step 1: write this code in Rstudio ide

```
> rainfall <- c(799,1174.8,865.1,1334.6,635.4,918.5,685.5,998.6,784.2,985,882.8,1071)</pre>
> rainfall.timeseries<-ts(rainfall,start=c(2012,1),frequency = 12)</pre>
> print(rainfall.timeseries)
        Jan
             Feb
                    Mar
                                     May
                                            Jun
                                                    วนใ
                                                                  Sep
                                                                         oct
                                                                                 Nov
                                                                                        Dec
2012 799.0 1174.8 865.1 1334.6 635.4 918.5 685.5 998.6 784.2 985.0 882.8 1071.0
> png(file="rainfall.png")
> plot(rainfall.timeseries)
> dev.off()
null device
> plot(rainfall.timeseries)
> dev.off()
null device
> plot(rainfall.timeseries)
> |
```

Final Output



PRACTICAL No: 8

Aim: Perform the data clustering using a clustering algorithm.

Step 1: Create Excel file with Age and Expenditure column -> save as CSV.

| Age | expenditure |
|-----|-------------|
| 19 | 4000 |
| 20 | 5500 |
| 23 | 5400 |
| 21 | 6500 |
| 22 | 4300 |
| 23 | 3400 |
| 25 | 5400 |
| 43 | 5500 |
| 34 | 7000 |
| 45 | 5400 |
| 45 | 3500 |
| 32 | 6500 |
| 34 | 4300 |
| 23 | 3400 |
| 27 | 2300 |
| 37 | 5000 |
| 32 | 4500 |
| 54 | 7500 |
| 32 | 5400 |
| 30 | 3500 |

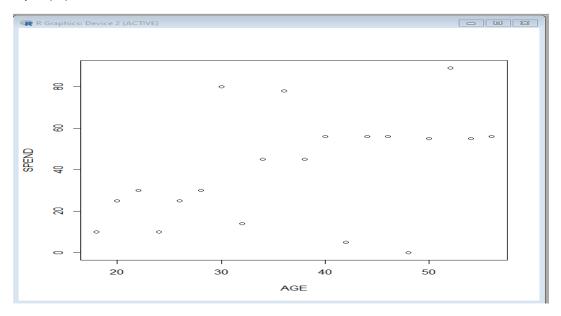
Step 2: Open R Studio -> Go to R console and type code.

1.df=read.csv("C:/Users/admin/Documents/AGE.csv")

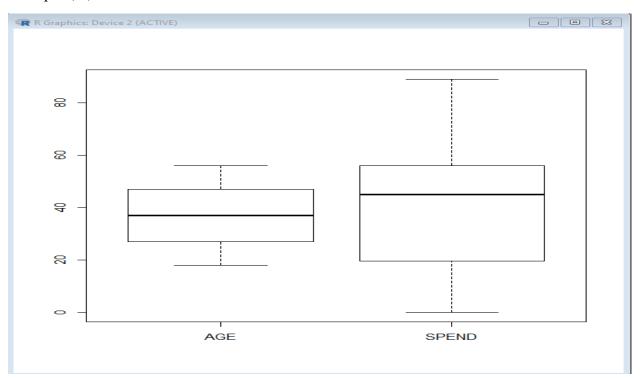
df

```
> df=read.csv("C:/Users/admin/Documents/AGE.csv")
  AGE SPEND
1
  18 10
2
   20
        25
   22
        30
   24
        10
        25
5
  26
  28
       30
   30
       80
8
   32
        14
   34
        45
9
10 36
        78
11 38
        45
12 40
        56
13 42
        56
14 44
15 46
       56
16 48
        0
17
   50
        55
18 52
        89
19 54
        55
20 56 56
```

4.plot(df)



5.boxplot(df)



```
6.set.seed(20)
> c1 = kmeans(df[,1:2],3)
> c1
> set.seed(20)
 > cl=kmeans(df[,1:2],3)
> c1
K-means clustering with 3 clusters of sizes 3, 8, 9
 Cluster means:
      AGE SPEND
 1 39.33333 82.33333
 2 45.25000 53.00000
 3 28.88889 16.55556
 Clustering vector:
 [1] 3 3 3 3 3 3 1 3 2 1 2 2 3 2 2 3 2 1 2 2
 Within cluster sum of squares by cluster:
[1] 327.3333 595.5000 1829.1111
 (between SS / total SS = 82.3 %)
 Available components:
                              "totss"
 [1] "cluster" "centers" "totss" [6] "betweenss" "size" "iter"
                                           "withinss" "tot.withinss"
                                          "ifault"
7.iris
> iris
    Sepal.Length Sepal.Width Petal.Length Petal.Width Species
1
             5.1
                        3.5
                                     1.4 0.2
                                                        setosa
2
                                     1.4
                                                 0.2
             4.9
                        3.0
                                                        setosa
                                                0.2
3
             4.7
                        3.2
                                    1.3
                                                        setosa
4
             4.6
                       3.1
                                     1.5
                                                0.2
                                                        setosa
5
             5.0
                        3.6
                                     1.4
                                                0.2
                                                        setosa
6
             5.4
                        3.9
                                     1.7
                                                0.4
                                                        setosa
7
                                                0.3
             4.6
                        3.4
                                     1.4
                                                        setosa
```

8

9

10

11

12

13

5.0

4.4

4.9

5.4

4.8

4.8

3.4

2.9

3.1

3.7

3.4

3.0

1.5

1.4

1.5

1.5

1.6

1.4

0.2

0.2

0.1

0.2

0.2

0.1

setosa

setosa

setosa

setosa

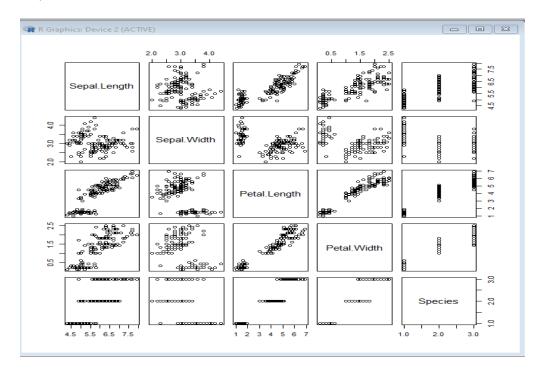
setosa

8.head(iris)

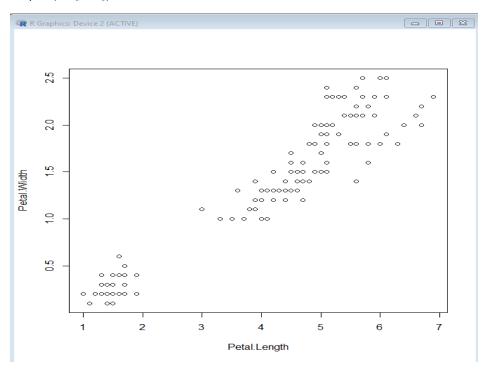
9.summary(iris)

```
> view(irrs)
> head(iris)
  Sepal.Length Sepal.Width Petal.Length Petal.Width Species
         5.1
                  3.5
                                       0.2 setosa
                            1.4
2
          4.9
                     3.0
                                1.4
                                           0.2 setosa
          4.7
                    3.2
                                1.3
                                          0.2 setosa
4
          4.6
                                1.5
                    3.1
                                           0.2 setosa
5
          5.0
                     3.6
                                1.4
                                           0.2 setosa
6
          5.4
                     3.9
                                1.7
                                           0.4
                                                setosa
> summary(iris)
 Sepal.Length
               Sepal.Width
                             Petal.Length
                                            Petal.Width
 Min.
      :4.300 Min. :2.000 Min. :1.000 Min. :0.100
              lst Qu.:2.800
                            1st Qu.:1.600 1st Qu.:0.300
 1st Qu.:5.100
 Median :5.800
               Median :3.000
                             Median :4.350
                                            Median :1.300
              Mean :3.057
 Mean
      :5.843
                             Mean :3.758
                                            Mean :1.199
 3rd Qu.:6.400
              3rd Qu.:3.300
                             3rd Qu.:5.100
                                           3rd Qu.:1.800
      :7.900
              Max. :4.400 Max. :6.900 Max. :2.500
 Max.
      Species
          :50
 setosa
 versicolor:50
 virginica:50
```

10.plot(iris)



11.plot(iris[,3:4])



12.kmeansc1=kmeans(iris[,3:4],3)

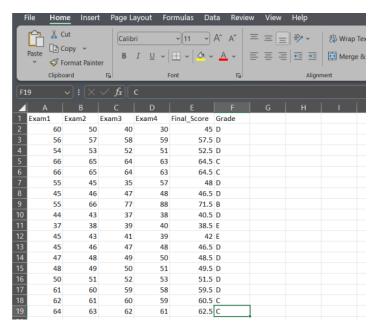
kmeansc1

```
> kmeanscl=kmeans(iris[,3:4],3)
> kmeanscl
K-means clustering with 3 clusters of sizes 50, 46, 54
Cluster means:
 Petal.Length Petal.Width
   1.462000 0.246000
2
   5.626087
          2.047826
   4.292593
         1.359259
Clustering vector:
 [149] 2 2
Within cluster sum of squares by cluster:
[1] 2.02200 15.16348 14.22741
(between SS / total SS = 94.3 %)
Available components:
[1] "cluster"
           "centers"
                   "totss"
                            "withinss"
                                     "tot.withinss"
[6] "betweenss"
           "size"
                    "iter"
                            "ifault"
>
```

PRACTICAL NO: 9

Aim: Perform the Linear regression on the given data warehouse data.

Step 1: Open Excel-> create 4 columns with names Exam1, Exam2, Exam3, Exam4, Final Score, Grade.

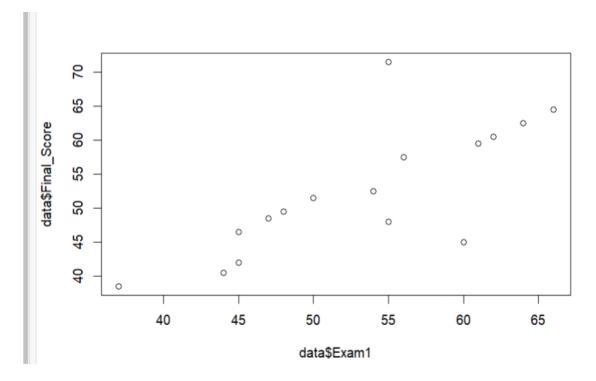


Step 2: Open R Studio -> Go on R console and type code

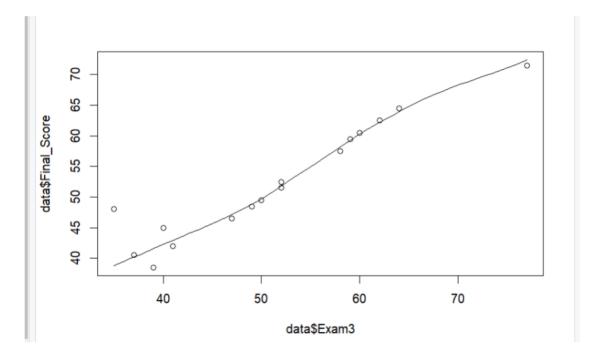
1.Data = read.csv("D://TYCS21/score.csv")

Data

2.plot(x=data\$Exam1,y=data\$Final_score)



3.scatter.smooth(x=data\$Exam3,y=data\$Final_score)



```
4.s=sample(nrow(data),.7*nrow(data))
>score_tr=data[s,]
```

Score_tr

>score_test=[-s,]

```
| S=sample(nrow(data),.7*nrow(data)) | S=sample(nrow(data),.7*nrow(data)) | S=score_tr=data[s,] | S=score_tr=d
```

5. linmod =lm(Final_score-Exam3,data=score_tr)
print(linmod)

```
- E X
> actual_predict=data.frame(cbind(actuals=score_test$Final_score,predicteds=pdata))
> actual predict
    actuals predicteds
      69.23
              39.53669
      75.66
68.86
                66.38965
                61.91416
       87.06
                70.86515
16
19
21
       60.11
                66.38965
                66.38965
       90.00
       30.70
                55.20092
22
26
30
       62.06
                70.86515
                73.10290
       83.99
       50.00
                61.91416
       90.79
50.44
58.33
32
34
                66.38965
                66.38965
                59.67641
38
40
       42.11
                52.96317
                61.91416
       61.84
43
50
55
58
       94.08
                70.86515
       69.30
                61.91416
61
62
71
75
76
78
       60.95
                70.86515
                39.53669
       11.11
       37.94
75.71
                57.43867
                66.38965
83
85
       78.07
                70.86515
        5.56
                39.53669
89
       11.11
90
       67.50
71.49
                66.38965
91
                66.38965
                39.53669
```

```
> cor(actual_predict$actual,actual_predict$predict)
[1] 0.7674963
> |
```

```
> mape= mean(abs((actual_predict$predicteds - actual_predict$actual))/ actual_predict$actual)*100
> mape
[1] 60.6191
> mape= mean(abs((actual_predict$predicteds - actual_predict$actual))/ actual_predict$actual)
> mape
[1] 0.606191
> |
```

Practical N0: 10

Aim: Perform the logistic regression on the given data warehouse data

Step1: Open R studio -> Go on R console and type code.

1.X<-read.csv("C:/Users/Admin/Documents/SampleStudentData.csv")

> X

```
R Console
                                                               R is a collaborative project with many contributors.
Type 'contributors()' for more information and
'citation()' on how to cite R or R packages in publications.
Type 'demo()' for some demos, 'help()' for on-line help, or
'help.start()' for an HTML browser interface to help.
Type 'q()' to quit R.
[Previously saved workspace restored]
> x=read.csv("d:/weather3.csv")
   outlook temperature humidity windy play
                hot high FALSE yes
1 overcast
2 overcast cool normal TRUE yes
3 overcast mild high TRUE yes
4 overcast
                hot normal FALSE yes
    rainy
5
               mild high FALSE yes
             cool normal FALSE yes
6
    rainy
7
    rainy
               mild normal FALSE yes
8
    rainy
               mild high TRUE no
9
    rainy
10 sunny
                hot
                       high FALSE no
11
                hot high TRUE no
    sunny
12
               mild
                       high FALSE no
    sunny
13
               cool normal FALSE yes
    sunny
14
               mild normal TRUE yes
     sunny
>
```

```
2.>x$humidity=ifelse(test=x$humidity=="high",yes=1,no=0)
>x
> x$humidity=ifelse(test=x$humidity=="high",yes=1,no=0)
   outlook temperature humidity windy play
1 overcast hot 1 FALSE yes
2 overcast
             cool
                      0 TRUE yes
             mild
                      1 TRUE yes
3 overcast
                      0 FALSE yes
              hot
4 overcast
             mild
   rainy
rainy
rainy
                      1 FALSE yes
5
             cool
6
                      0 FALSE
                              ves
7
             cool
                      0 TRUE
                      0 FALSE yes
8
             mild
   rainy
             mild
9
                      1 TRUE no
   rainy
10 sunny
             hot
                      1 FALSE no
              hot
11
  sunny
                      1 TRUE
   sunny
             mild
                      1 FALSE
12
         cool 0 FALSE yes
mild 0 TRUE yes
   sunny
13
14
    sunny
3.x$play=ifelse(test=x$play=="yes",yes=1,no=0)
>x
> x$play=ifelse(test=x$play=="yes",yes=1,no=0)
   outlook temperature humidity windy play
1 overcast
               hot 1 FALSE
                        0 TRUE
               cool
2 overcast
3 overcast
              mild
                        1 TRUE
4 overcast
               hot
                        0 FALSE
5
    rainy
              mild
                        1 FALSE
                                  1
    rainy
              cool
6
                        0 FALSE
                                  1
7
              cool
                        O TRUE O
    rainy
8
              mild
                        0 FALSE
    rainy
                                 1
9
              mild
                        1 TRUE
    rainy
              hot
10
                        1 FALSE 0
   sunny
11
   sunny
               hot
                        1 TRUE 0
12
              mild
                        1 FALSE 0
   sunny
                      0 FALSE
              cool
13
   sunny
                                  1
14 sunny
              mild
                        0 TRUE
                                  1
```

```
4.x\suindy=ifelse(test=x\suindy=="FALSE",yes=0,no=1)
>x
> x$windy=ifelse(test=x$windy=="FALSE",yes=0,no=1)
    outlook temperature humidity windy play
1 overcast hot 1 0
2 overcast cool
3 overcast mild
4 overcast hot
5 rainy mild
                              0
                                     1
                              1
                                     1
                                          1
                             0 0 1
                  cool
6
     rainy
                              0
7 rainy cool 0 1
8 rainy mild 0 0
9 rainy mild 1 1
10 sunny hot 1 0
11 sunny hot 1 1
                                          0
                                           1
                                     1 0
                                     0 0
                            1 1 0
1 0 0
0 0 1
              mild
cool
12
    sunny
13 sunny
14 sunny
                  mild
                            0
                                     1
                                          1
>
5. s=sample(nrow(x),.7*nrow(x))
>x_tr=x[s,]
>x_{\text{test}}=x[-s,]
>nrow(x)
>nrow(x_tr)
>nrow(x test)
> s=sample(nrow(x),.7*nrow(x))
> x_tr=x[s,]
> x test=x[-s,]
> nrow(x)
[1] 14
> nrow(x_tr)
[1] 9
> nrow(x_test)
[1] 5
>
```

6.lmod=glm(play~windy,data=x_tr,family=binomial,control=list(maxit=100)) >lmod > lmod=glm(play~windy,data=x tr,family=binomial,control=list(maxit=100)) > 1mod Call: glm(formula = play ~ windy, family = binomial, data = x tr, control = list(maxit = 100)) Coefficients: (Intercept) windy 20.57 -19.87 Degrees of Freedom: 8 Total (i.e. Null); 7 Residual Null Deviance: 6.279 Residual Deviance: 3.819 AIC: 7.819 > summary(lmod) $glm(formula = play \sim windy, family = binomial, data = x_tr, control = list(maxit = 100))$ Deviance Residuals: Min 1Q Median 3Q Max -1.48230 0.00005 0.00005 0.00005 0.90052 Coefficients: Estimate Std. Error z value Pr(>|z|) (Intercept) 20.57 7238.39 0.003 0.998 windy -19.87 7238.39 -0.003 0.998 (Dispersion parameter for binomial family taken to be 1) Null deviance: 6.2790 on 8 degrees of freedom

AIC: 7.8191

>

Residual deviance: 3.8191 on 7 degrees of freedom

Number of Fisher Scoring iterations: 19

>summary(lmod) > lmod=glm(play~humidity,data=x_tr,family=binomial,control=list(maxit=100)) > summary(lmod) glm(formula = play ~ humidity, family = binomial, data = x_tr, control = list(maxit = 100)) Deviance Residuals: Min 1Q Median 3Q Max -1.97277 0.00008 0.55525 0.55525 0.55525 Coefficients: Estimate Std. Error z value Pr(>|z|) (Intercept) 1.792 1.080 1.659 0.0971 humidity 17.774 7604.236 0.002 0.9981 Signif. codes: 0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1 (Dispersion parameter for binomial family taken to be 1) Null deviance: 6.2790 on 8 degrees of freedom Residual deviance: 5.7416 on 7 degrees of freedom AIC: 9.7416 Number of Fisher Scoring iterations: 18 >lmod=glm(play~temperature,data=x_tr,family=binomial,control=list(maxit=100)) >summary(lmod) > lmod=glm(play~temperature,data=x_tr,family=binomial,control=list(maxit=100)) > summary(lmod) Deviance Residuals: 10 Median 30 -1.66511 0.00005 0.00005 0.75853 0.75853 Coefficients: Estimate Std. Error z value Pr(>|z|)(Intercept) 1.099 1.155 0.951 0.341 temperaturehot 19.467 12537.265 0.002 0.999 temperaturemild 19.467 10236.634 0.002 0.998 temperaturemild (Dispersion parameter for binomial family taken to be 1) Null deviance: 6.2790 on 8 degrees of freedom Residual deviance: 4.4987 on 6 degrees of freedom AIC: 10.499 Number of Fisher Scoring iterations: 19 > | 8.p=predict(lmod,x_test,type="response") >p