BIDA Practical Slip

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1.	A student to a control of the land of the land
	A student has received marks in 4 subject and want to predict their total so average marks based on podential improvement in subject 4
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	and on furnia improminent in Argina 9
	Calculate the total & average marker using Excel
-	formula
2.	Use what if analysis predict whatis analysis that is to , 75, 80, 85.
	V to to, 80, 85.
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3.	Show implementation of classification algorithm
	Show implementation of classification algorithm in pythox or R programming
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4.	Impart the
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5.	Confirm data dustering wing dust algorithm
	in python or R
,	Perform Linear regression & Loquitic regression using R studio.
6	Teyorm when a coprosion is regional regional
7	Create FTMmap. & setup schedule?
	gnucella
8	Perform data visualization to power B) and set
	data
	7. Greate prot Loter & chart & Table wing. minconsist excel.
1	or for excel Excel.
	There was a second

10.	write pivot programing in read dutar file in
	python
11.	
4008	Implement Komean allostering wing Restudio
1Var	Excel Physic talks & Charact
2.	Excel Pivot Table & Chart. K means chustering Linear regression
×1.	Decision Tree.
(30%) 5.	what if analysis scenamo (student masus analysis)

1. A student has received marks in 4 subjects and wants to predict their total & average marks based on potential improvement in subject 4. Calculate the total & average marks using Excel formula.

Use what-if analysis to predict. What's the analysis that is 70, 75, 80, 85?

	G	Ē	E	D	C	В	A
		Formula	Total marks	S4		52	S1
=average(A3:D3)	type the formula =average(A3:D3)		type the formula =sum(A3:D3)				
		85.25	341	88	90	85	78
	85.25	341	88	90	85	78	

SCENARIO MANAGER -> MODIFY A SCENARIO AND SELECT THE CELLS AND MAKE CHANGES -> SHOW SUMMARY

excel

2. Show implementation of classification algorithm in Python or R programming.

Ans:

Practical 6

Get the data points in form of a R vector. rainfall <-c(799,1174.8,865.1,1334.6,635.4,918.5,685.5,998.6,784.2,985,882.8,1071)

Convert it to a time series object.
rainfall.timeseries <- ts(rainfall,start = c(2012,1),frequency = 12)

Print the timeseries data. print(rainfall.timeseries)

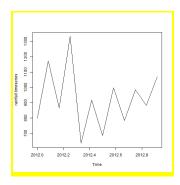
Give the chart file a name. png(file = "rainfall.png")

Plot a graph of the time series. plot(rainfall.timeseries)

Save the file. dev.off()

Output:

When we execute the above code, it produces the following result and chart – Jan Feb Mar Apr May Jun Jul Aug Sep 2012 799.0 1174.8 865.1 1334.6 635.4 918.5 685.5 998.6 784.2 Oct Nov Dec 2012 985.0 882.8 1071.0



3. Import the data warehouse in Microsoft Excel and create Pivot table and Pivot Chart

Ans:

Same as question 8(almost)

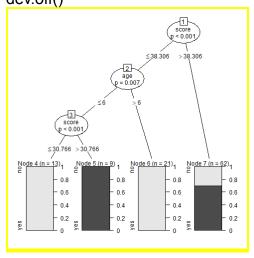
4. Perform data clustering using cluster algorithms in Python or R.

Ans:

Practical 7

First import package by click tools- install package- search "party" install

library(party)
print(head(readingSkills))
input.dat<-readingSkills[c(1:105),]
png(file="suraj.png")
output.tree<-ctree(nativeSpeaker~age+shoeSize+score,data=input.dat)
plot(output.tree)
dev.off()



5. Perform linear & logistic regression using R studio.

Ans:

Practical 9 -linear

Create the predictor and response variable.

```
x <- c(151, 174, 138, 186, 128, 136, 179, 163, 152, 131)

y <- c(63, 81, 56, 91, 47, 57, 76, 72, 62, 48)

relation <- lm(y\sim x)

# Give the chart file a name.

png(file = "linearregression.png")

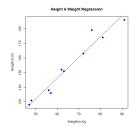
# Plot the chart.

plot(y,x,col = "blue",main = "Height & Weight Regression",

abline(lm(x\simy)),cex = 1.3,pch = 16,xlab = "Weight in Kg",ylab = "Height in cm")

# Save the file.

dev.off()
```

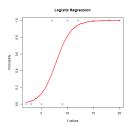


logistic regression

```
# Predictor (x) and response variable (y)
x <- c(2, 3, 5, 7, 9, 10, 12, 15, 18, 20) # Example predictor
y <- c(0, 0, 0, 1, 0, 1, 1, 1, 1) # Binary response (0 or 1)

# Fit logistic regression model
model <- glm(y ~ x, family = binomial)

# Plot logistic regression curve
png(file = "logisticregression.png")
plot(x, y, col = "blue", main = "Logistic Regression", xlab = "X values", ylab = "Probability")
curve(predict(model, data.frame(x = x), type = "response"), add = TRUE, col = "red", lwd = 2)
dev.off()
```



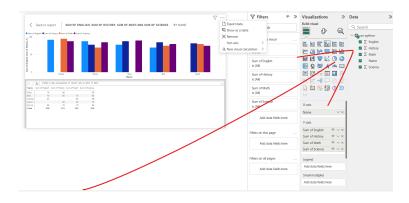
6. Create ETL Map & setup schedule.

Ans: nhi sikhaya aarya ne aur isko kuch SQL se krna hai

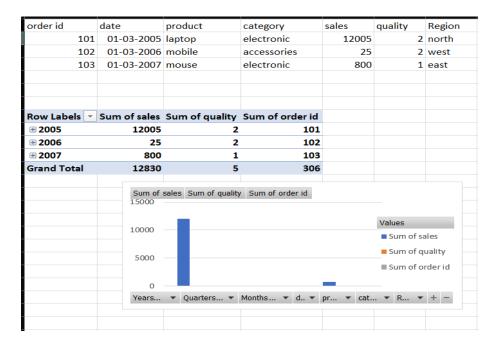
7. Perform data visualization in Power BI and Sales data.
Ans:

application:B1

Import data from excel > select excel file and load data > select any chart and double click > select jo bhi chahiye > then on extreme right tick the data you want to display



8. Create pivot table & chart & table using Microsoft Excel. Ans:



Sabse pehle upar wala table banao then usko select karo:

Go to the "Insert" tab and click TABLE -> "PivotTable".

- 1. Choose where to place the PivotTable (New or Existing Worksheet). CLICK EXISTING
- 2. Click OK.
- 3. Drag fields into the **Rows, Columns, Values, and Filters** areas as needed. (eg order, category etc.)

2. Create a Pivot Chart

- 1. Click inside the PivotTable.
- 2. Go to "Insert" > "PivotChart".
- 3. Choose a chart type (e.g., Column, Pie, Line).
- 4. Click **OK** to generate the chart.

10. Write programming in read data CSV file in Python.

Ans:

Python IDLE

Kya pata CSV file milega ki Nhi

Path acche se copy karo (/ jo hai kabhi ulta copy hota hai toh usko seedha kr dena)

(ye csv file khud se bhi bana skte hai excel me same bas .cvs extension se save krna hai)

Name	Math	Science	English	History
Alice	85	90	78	88
Bob	75	80	70	85
Charlie	95	88	92	
David	80	75		82
Emma	70	85	88	78

Ye cmd me type karna hai dono cheez

Cmd 1: -m ensurepip --default-pip

Sabse pehle cmd2: "pip install pandas"

Now use IDLE and paste the code

import pandas as pd

data = pd.read csv("C:/Users/dhari/Desktop/csv-python.csv")

print("First 5 rows of the data:")
print(data.head())

print("\nMissing values in each column:")
print(data.isnull().sum())

print("\nSummary statistics for numerical columns:")
print(data.describe())

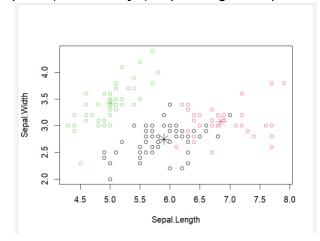
Output: just shows the missing values from the table

11. Implement K-means clustering using R Studio.

Ans:

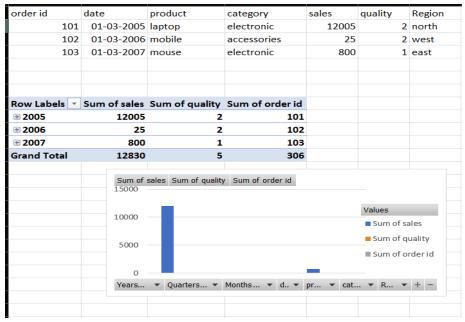
RSTUDIO > FILE > NEW > RSCRIPT

Practical 8
newiris<-iris
newiris\$Species<-NULL
(kc<- kmeans(newiris,3))
table(iris\$Species,kc\$cluster)
plot(newiris[c("Sepal.Length","Sepal.Width")],col=kc\$cluster)
points(kc\$centers[,c("Sepal.Length","Sepal.Width")],col=1:3,pch=8,cex=2)



V.V. IMP

1. Excel Pivot Table & Chart. Ans:



Sabse pahale uper wala table banao then usko select karo:

Go to the "Insert" tab and click "PivotTable".

- 4. Choose where to place the PivotTable (New or Existing Worksheet).
- 5. Click OK.
- 6. Drag fields into the **Rows**, **Columns**, **Values**, **and Filters** areas as needed.

2. Create a Pivot Chart

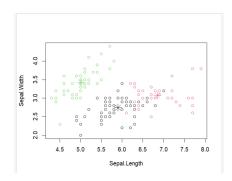
- 5. Click inside the PivotTable.
- 6. Go to "Insert" > "PivotChart".
- 7. Choose a chart type (e.g., Column, Pie, Line).
- 8. Click **OK** to generate the chart.

2. K-means clustering.

Ans:

Practical 8

newiris<-iris
newiris\$Species<-NULL
(kc<- kmeans(newiris,3))
table(iris\$Species,kc\$cluster)
plot(newiris[c("Sepal.Length","Sepal.Width")],col=kc\$cluster)
points(kc\$centers[,c("Sepal.Length","Sepal.Width")],col=1:3,pch=8,cex=2)

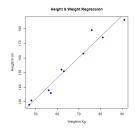


3. Linear regression.

Ans:

Practical 9

```
# Create the predictor and response variable. x <- c(151, 174, 138, 186, 128, 136, 179, 163, 152, 131) y <- c(63, 81, 56, 91, 47, 57, 76, 72, 62, 48) relation <- lm(y\sim x) # Give the chart file a name. png(file = "linearregression.png") # Plot the chart. plot(y,x,col = "blue",main = "Height & Weight Regression", abline(lm(x\simy)),cex = 1.3,pch = 16,xlab = "Weight in Kg",ylab = "Height in cm") # Save the file. dev.off()
```

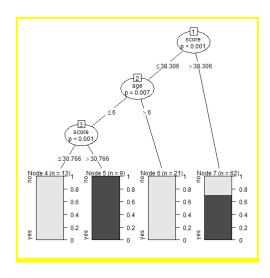


4. Decision Tree.

Ans:

Practical 7

```
library(party)
print(head(readingSkills))
input.dat<-readingSkills[c(1:105),]
png(file="suraj.png")
output.tree<-ctree(nativeSpeaker~age+shoeSize+score,data=input.dat)
plot(output.tree)
dev.off()
```



5. What-If analysis scenario (Student marks analysis).

Ans:

Refer Q1