**R PROGRAMMING**

Ques 4 : Write R commands to do the following:

a. Create a sample STUDENT table in the MySQL database.

b. Insert 5 rows into the STUDENT table.

c. Display all the information stored in STUDENT table.

d. Delete all the rows from STUDENT table.

e. Drop the STUDENT table.

> library(RMySQL)

Loading required package: DBI

Warning messages:

1: package ‘RMySQL’ was built under R version 4.2.3

2: package ‘DBI’ was built under R version 4.2.3

> driver <- dbDriver("MySQL")

> con <- dbConnect(driver,

+                  dbname = 'Prac4',

+                  host = 'localhost',

+                  port = 3306,

+                  user = 'root',

+                  password = "Kalakel-123")

>

> #a. Create a sample STUDENT table in the MySQL database.

> dbSendQuery(con, "CREATE TABLE STUDENT (

+                     RollNumber INT NOT NULL AUTO\_INCREMENT,

+                     Name VARCHAR(30) NOT NULL,

+                     Age INT,

+                     grade VARCHAR(2),

+                     PRIMARY KEY (RollNumber))")

<MySQLResult:0,0,0>

>

>

> #b. Insert 5 rows into the STUDENT table.

> dbSendQuery(con, "INSERT INTO STUDENT (name, age, grade)

+                     VALUES ('George', 18, 'A'),

+                            ('Dergham', 19, 'B'),

+                            ('Kalakel', 17, 'C'),

+                            ('GGS', 20, 'A'),

+                            ('DU', 18, 'B')")

<MySQLResult:1399723464,0,1>

>

> #c. Display all the information stored in STUDENT table.

> result <- dbSendQuery(con, "SELECT \* FROM STUDENT")

> df <- dbFetch(result)

> df

  RollNumber    Name Age grade

1          1  George  18     A

2          2 Dergham  19     B

3          3 Kalakel  17     C

4          4     GGS  20     A

5          5      DU  18     B

>

> #d. Delete all the rows from STUDENT table.

> dbSendQuery(con, "DELETE FROM STUDENT")

<MySQLResult:1451785440,0,3>

>

> #e. Drop the STUDENT table.

> dbSendQuery(con, "DROP TABLE STUDENT")

<MySQLResult:1451744960,0,4>