

Task ::

Write a Database application such that it performs (CURD) operations. The operations must be included in the following given below format..

When the user runs the code It should display a menu

1. Display the Data from the Table
2. Add the Data into the Table
3. Update the Data from the Table
4. Delete the Data from the Table
5. Exit

When choice 1 is selected then it should display all the rows of the selected table.

When choice 2 is selected then it should insert the rows and then prompt for "Do you want some more rows to insert" if yes is given it should continue to insert or else it should display menu back.

When choice 3 is selected it should update the row/s of the table by accepting Id as input.

When choice 4 is selected it should delete the data from the table based on ID.

```
package googleexample;

//import java.beans.Statement;
import java.sql.Connection;
import java.sql.DriverManager;
import java.sql.ResultSet;

import java.util.Scanner;

public class example {

    public static void main(String[] args) {

        //menu

        Scanner scanner = new Scanner(System.in) ;

        int num = 0 ;

        do {
```

```

System.out.println("1. Display the Data from the Table\r\n"
    + "2. Add the Data into the Table\r\n"
    + "3. Update the Data from the Table\r\n"
    + "4. Delete the Data from the Table\r\n"
    + "5. Exit");
System.out.println("Enter the value for choice ::");
num = scanner.nextInt() ;

if(num == 1) {

    try {

        Class.forName("com.mysql.cj.jdbc.Driver") ;
        Connection con =
DriverManager.getConnection("jdbc:mysql://localhost:3306/tree" , "root" , "hello") ;
        java.sql.Statement stmt = con.createStatement() ;
        String sql;
        sql = "select *from userid";
        ResultSet rs = stmt.executeQuery(sql);
        java.sql.ResultSetMetaData rsmd = rs.getMetaData();

        int columnsNumber = rsmd.getColumnCount();

        // ResultSet resultSet = stmt.executeQuery(sql);
        while (rs.next()) {
            //Print one row
            for(int i = 1 ; i <= columnsNumber; i++){

                System.out.print(rs.getString(i) + " "); //Print one element of a
row

            }

            System.out.println();//Move to the next line to print the next row.

        }

        con.close() ;
    }catch (Exception e) {
        System.out.println(e);
    }
}

else if(num ==2) {

    try {
        Class.forName("com.mysql.cj.jdbc.Driver") ;

```

```

        Connection con =
DriverManager.getConnection("jdbc:mysql://localhost:3306/tree" , "root" , "hello") ;
        java.sql.Statement stmt = con.createStatement() ;
        System.out.println("Inserting records::");
        Boolean choice ;
        do {

                System.out.println("Do you want to insert more rows ,
true or false ::");

                choice = scanner.nextBoolean() ;
                if(choice) {

                        System.out.println("id::");
                        int id = scanner.nextInt() ;
                        String[] string = new String [2];
                        scanner.nextLine() ;
                        System.out.println("fname::");
                        string[0] = scanner.nextLine() ;
                        System.out.println("lname::");
                        string[1] = scanner.nextLine() ;
                        System.out.println("age::");
                        int age = scanner.nextInt() ;

                                String sql = "insert into userid values ( " + id+"",""+
string[0] + "," +string[1]+"," + age +");" ;
                                stmt.executeUpdate(sql) ;
                                System.out.println("all values done!!");
                                }
                                else {
                                        System.out.println("You are done with inserting data!!");
                                }

                                }while(choice) ;

                                con.close() ;

                                }catch (Exception e) {
                                        System.out.println(e);
                                }

                                }

                                else if(num ==3)
                                {
                                        try {

                                                Class.forName("com.mysql.cj.jdbc.Driver") ;
                                                Connection con =
DriverManager.getConnection("jdbc:mysql://localhost:3306/tree" , "root" , "hello") ;
                                                java.sql.Statement stmt = con.createStatement() ;

```

```

        System.out.println("Updating records\r\n"
            + "Enter the emp id :: ");
        int id = scanner.nextInt() ;

        String Fname = "updated_name" ;
        String lname = "Last name" ;
        System.out.println("Enter the age ::");
        int age = scanner.nextInt() ;
        String sql = "update userid set age =" + age + " where id =" + id
;

        stmt.executeUpdate(sql) ;
        con.close() ;
    }catch (Exception e) {
        System.out.println(e);
    }

}

else {
    try {
        Class.forName("com.mysql.cj.jdbc.Driver") ;
        Connection con =
DriverManager.getConnection("jdbc:mysql://localhost:3306/tree" , "root" , "hello") ;
        java.sql.Statement stmt = con.createStatement() ;
        System.out.println("Deleting record"
            + "Enter the id for deletion::");
        int id = scanner.nextInt() ;

        String sql = "DELETE from userid WHERE id = " + id + " ";
        stmt.executeUpdate(sql) ;
        con.close() ;
    }catch (Exception e) {
        System.out.println(e);
    }

}

}while(num!=5) ;

/*try {
    Class.forName("com.mysql.cj.jdbc.Driver") ;
    Connection con =
DriverManager.getConnection("jdbc:mysql://localhost:3306/tree" , "root" , "hello") ;
    java.sql.Statement stmt = con.createStatement() ;
    System.out.println("inserting records");

```

```

        String sql ="Insert into userid values();" ;
        stmt.executeUpdate(sql) ;

    }catch (Exception e) {
        System.out.println(e);
    }*/

}

}

```

```

example [Java Application] C:\Program Files\Java\jdk-18.0.2\bin\javaw.exe (01-Aug-2022, 10:19:38 pm) [pid: 15752]
3. Update the Data from the Table
4. Delete the Data from the Table
5. Exit
Enter the value for choice ::
1
200 mansi verma 34
300 super man 35
1. Display the Data from the Table
2. Add the Data into the Table
3. Update the Data from the Table
4. Delete the Data from the Table
5. Exit
Enter the value for choice ::
4
Deleting recordEnter the id for deletion::
200
1. Display the Data from the Table
2. Add the Data into the Table
3. Update the Data from the Table
4. Delete the Data from the Table
5. Exit
Enter the value for choice ::
1
300 super man 35
1. Display the Data from the Table
2. Add the Data into the Table
3. Update the Data from the Table
4. Delete the Data from the Table
5. Exit
Enter the value for choice ::

```

DELETE

```
example [Java Application] C:\Program Files\Java\jdk-18.0.2\bin\javaw.exe (01-Aug-2022, 10:19:38 pm) [pid: 15752]
Enter the value for choice ::
1
300 super man 35
1. Display the Data from the Table
2. Add the Data into the Table
3. Update the Data from the Table
4. Delete the Data from the Table
5. Exit
Enter the value for choice ::
2
Inserting records::
Do you want to insert more rows , true or false ::
true
id::
1000
fname::
vineet
lname::
verma
age::
24
all values done!!
Do you want to insert more rows , true or false ::
false
You are done with inserting data!!
1. Display the Data from the Table
2. Add the Data into the Table
3. Update the Data from the Table
4. Delete the Data from the Table
5. Exit
Enter the value for choice ::
1
```

INSERT

```

1. Display the Data from the Table
2. Add the Data into the Table
3. Update the Data from the Table
4. Delete the Data from the Table
5. Exit
Enter the value for choice ::
1
300 super man 35
1000 vineet verma 100
1. Display the Data from the Table
2. Add the Data into the Table
3. Update the Data from the Table
4. Delete the Data from the Table
5. Exit
Enter the value for choice ::
3
Updating records
Enter the emp id ::
1000
Enter the age ::
140
1. Display the Data from the Table
2. Add the Data into the Table
3. Update the Data from the Table
4. Delete the Data from the Table
5. Exit
Enter the value for choice ::
1
300 super man 35
1000 vineet verma 140
1. Display the Data from the Table
2. Add the Data into the Table
3. Update the Data from the Table
4. Delete the Data from the Table

```

UPDATE

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