**Write a program to implement MySQL/Oracle database connectivity with any front end language to implement Database navigation operations (add, delete, edit etc.)**

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**Roll no**: 13116

package sample;

import java.sql.\*;

import java.util.\*;

import java.io.\*;

public class New {

public static void main(String arg[])

{

try{

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

Connection conn=DriverManager.getConnection("jdbc:mysql://localhost:3306/te\_a3\_13155","root","root");

PreparedStatement stm=null;

Statement stmt=conn.createStatement();

int ch;

Scanner sc=new Scanner(System.in);

BufferedReader br=new BufferedReader(new InputStreamReader(System.in));

do{

int r;

String n = null;

System.out.println("Enter Your choice \n1 Insert\n2 Update\n3 Delete\n4 Display\n5 Exit");

ch=sc.nextInt();

switch(ch)

{

case 1:

System.out.println("Enter Roll No");

r=Integer.parseInt(br.readLine());

System.out.println("Enter Name");

n=br.readLine();

String sql = "insert into student "+ " (roll,name)" + " values (?, ?)";

stm = conn.prepareStatement(sql);

// set param values

stm.setInt(1, r);

stm.setString(2, n);

// 3. Execute SQL query

stm.executeUpdate();

break;

case 2:

System.out.println("Enter Roll No to update");

r=Integer.parseInt(br.readLine());

System.out.println("Enter Name");

n=br.readLine();

String query = "update student set name=? where roll=? ";

stm = conn.prepareStatement(query);

stm.setString(1, n);

stm.setInt(2, r);

stm.executeUpdate();

System.out.println("Record updated");

break;

case 3:

System.out.println("Enter Roll No to update");

r=Integer.parseInt(br.readLine());

String sql1="DELETE FROM student WHERE roll=?";

stm= conn.prepareStatement(sql1);

stm.setInt(1, r);

stm.execute();

System.out.println("Record Deleted");

break;

case 4:

String qr= "SELECT \* FROM student ORDER BY roll";

ResultSet rs=stmt.executeQuery(qr);

while(rs.next())

{

r=rs.getInt("roll");

n=rs.getString("name");

System.out.println("Roll No:"+r+ "\tName:"+n);

}

break;

case 5:System.out.println("Thank You");

break;

default:System.out.println("Invalid Choice");

}

}while(ch!=5);

stmt.close();

conn.close();

}

catch(Exception e)

{

System.out.println(e);

}

}}

**Output:**

Enter Your choice

1 Insert

2 Update

3 Delete

4 Display

5 Exit

1

Enter Roll No

11

Enter Name

gauri

Enter Your choice

1 Insert

2 Update

3 Delete

4 Display

5 Exit

1

Enter Roll No

12

Enter Name

vijay

Enter Your choice

1 Insert

2 Update

3 Delete

4 Display

5 Exit

1

Enter Roll No

13

Enter Name

Smita

Enter Your choice

1 Insert

2 Update

3 Delete

4 Display

5 Exit

1

Enter Roll No

18

Enter Name

yash

Enter Your choice

1 Insert

2 Update

3 Delete

4 Display

5 Exit

2

Enter Roll No to update

17

Enter Name

rachi

Record updated

Enter Your choice

1 Insert

2 Update

3 Delete

4 Display

5 Exit

4

Roll No:11 Name:gauri

Roll No:12 Name:vijay

Roll No:13 Name:Smita

Roll No:17 Name:rachi

Enter Your choice

1 Insert

2 Update

3 Delete

4 Display

5 Exit

3

Enter Roll No to update

11

Record Deleted

Enter Your choice

1 Insert

2 Update

3 Delete

4 Display

5 Exit

4

Roll No:12 Name:vijay

Roll No:15 Name:Smita

Roll No:18 Name:rachi

Enter Your choice

1 Insert

2 Update

3 Delete

4 Display

5 Exit

5

Thank You

Connection:

package sample;

import java.sql.\*;

public class DBMS {

public static final String DBURL = "jdbc:mysql://localhost:3306/te\_a3\_13155";

public static final String DBUSER = "root";

public static final String DBPASS = "root";

public static void main(String[] args) {

// TODO Auto-generated method stub

try

{

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

System.out.println("Driver is loaded successfully");

Connection con = DriverManager.getConnection(DBURL, DBUSER, DBPASS);

System.out.println("Connection is establish");

}

catch(Exception e)

{

System.out.println(e);

}

}

}

output:

Driver is loaded successfully

Connection is establish