DBMS Prcatical

DBMS Practical-Database Connection
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Program:-

```
package JDBC_connection;
import java.sql.*;
import java.util.*;
import java.io.*;
public class Operations {
        public static void main(String arg[]) {
                try{
                        Class.forName("com.mysql.cj.jdbc.Driver");
                        Connection
conn=DriverManager.getConnection("jdbc:mysql://localhost:3306/student","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 studd "+ " (roll,name)" + " values
(?, ?)";

                                                stm = conn.prepareStatement(sql);
                                                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 studd 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 Delete");
                                 r=Integer.parseInt(br.readLine());
                                 String sql1="DELETE FROM studd WHERE roll=?";
                                 stm= conn.prepareStatement(sql1);
                                 stm.setInt(1, r);
                                 stm.execute();
                                 System.out.println("Record Deleted");
                                 break;
                          case 4:
                                 String qr= "SELECT * FROM studd 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
102
Enter Name
anurag
Enter Your choice
1 Insert
2 Update
3 Delete
4 Display
5 Exit
1
Enter Roll No
103
Enter Name
pranav
Enter Your choice
1 Insert
2 Update
3 Delete
4 Display
5 Exit
1
Enter Roll No
104
Enter Name
sarthak
Enter Your choice
1 Insert
2 Update
3 Delete
4 Display
5 Exit
1
Enter Roll No
105
Enter Name
abhishek
Enter Your choice
1 Insert
2 Update
3 Delete
4 Display
5 Exit
2

Enter Roll No to update
102
Enter Name
ankush
Record updated
Enter Your choice
1 Insert
2 Update
3 Delete
4 Display
5 Exit
3
Enter Roll No to Delete
2
Record Deleted
Enter Your choice
1 Insert
2 Update
3 Delete
4 Display
5 Exit
4
Roll No:36   Name:rohan
Roll No:71   Name:anurag
Roll No:102   Name:ankush
Roll No:103   Name:pranav
Roll No:104   Name:sarthak
Roll No:105   Name:abhishek
Enter Your choice
1 Insert
2 Update
3 Delete
4 Display
5 Exit

```
mysql> select * from studd;
+--------+----------+
| roll   | name     |
+--------+----------+
|     36 | rohan    |
|     36 | rohan    |
|     71 | anurag   |
|    102 | ankush   |
|    103 | pranav   |
|    104 | sarthak  |
|    105 | abhishek |
+--------+----------+
7 rows in set (0.00 sec)

mysql>
```