

```
import java.sql.*;
/**1**/ To Establish Connection With database
public class App
{
    public static void main(String[] args) throws Exception
    {
        String dburl="jdbc:mysql://localhost:3306/lju";
        String dbuser="root";
        String dbpass="";
        String driverName="com.mysql.jdbc.Driver";

        //Step:1: Load Driver

        Class.forName(driverName);

        //Step:2:Connect with db

        Connection con=DriverManager.getConnection(dburl,dbuser,dbpass);

        //check is connection Established?

        if(con!=null)
        {
            System.out.println("Connection Success");
        }
        else
        {
            System.out.println("Connection failed");
        }
    }
}
```

---

```
/**2**/InsertData

import java.sql.*;
//Insert Data With PrimaryKey With Auto Increment

public class InsertJDBC
{
    public static void main(String[] args) throws Exception
    {
        String dburl="jdbc:mysql://localhost:3306/lju";
        String dbuser="root";
        String dbpass="";
        String driverName="com.mysql.cj.jdbc.Driver";

        //Step:1: Load Driver

        Class.forName(driverName);

        //Step:2:Connect with db
```

```

Connection con=DriverManager.getConnection(dburl,dbuser,dbpass);

//check is connection Established?

if(con!=null)
{
    System.out.println();
    System.out.println("Connection Success");
    System.out.println();
}
else
{
    System.out.println("Connection failed");
}

//Step:3:Create statement obj

Statement st=con.createStatement();

//Step:4:Write insert Querry for faculty table.

String sql="insert into faculty(facId,FacName,salary,number) values(2,'Arp',25000,989898)";

//Step:5: Execute Querry--->for insert,delete,update use executeUpdate()

int r=st.executeUpdate(sql);
if (r>0)
{
    System.out.println();
    System.out.println("insertion Success");
    System.out.println();
}
else
{
    System.out.println("Insertion failed");
}
}

}

```

---

```

/**3**/InsertData

import java.sql.*;
import java.util.*;
//Insert Data Without PrimaryKey With Auto Increment

public class InsertJDBC2
{
    public static void main(String[] args) throws Exception
    {
        String dburl="jdbc:mysql://localhost:3306/lju";

```

```
String dbuser="root";
String dbpass="";
String driverName="com.mysql.cj.jdbc.Driver";

//Step:1: Load Driver

Class.forName(driverName);

//Step:2:Connect with db

Connection con=DriverManager.getConnection(dburl,dbuser,dbpass);

//check is connection Established?

if(con!=null)
{
    System.out.println();
    System.out.println("Connection Success");
    System.out.println();
}
else
{
    System.out.println("Connection failed");
}

//Step:3:Create statement obj

Statement st=con.createStatement();

//Step:4:Write insert Querry for faculty table.

String sql="insert into faculty(facName,salary,number) values('jjs',250,123465)";

//Step:5: Execute Querry--->for insert,delete,update use executeUpdate()

int r=st.executeUpdate(sql);
if (r>0)
{
    System.out.println();
    System.out.println("insertion Success");
    System.out.println();
}
else
{
    System.out.println("Insertion failed");
}
}
```

---

```

//**4**/insertion using userInput
public class InsertJDBC3
{
    public static void main(String[] args) throws Exception
    {
        String dburl="jdbc:mysql://localhost:3306/lju";
        String dbuser="root";
        String dbpass="";
        String driverName="com.mysql.cj.jdbc.Driver";

        //Step:1: Load Driver

        Class.forName(driverName);

        //Step:2:Connect with db

        Connection con=DriverManager.getConnection(dburl,dbuser,dbpass);

        //check is connection Establihed?

        if(con!=null)
        {
            System.out.println();
            System.out.println("Connection Success");
            System.out.println();
        }
        else
        {
            System.out.println("Connection failed");
        }

        //Step:3:Create statement obj

        Statement st=con.createStatement();

        Scanner sc=new Scanner(System.in);
        System.out.print("How many rows you want to enter:::");
        int n=sc.nextInt();
        for(int i=1;i<=n;i++)
        {
            System.out.println("Enter Data for fac="+i);
            System.out.print("Enter Name:::");
            String name=sc.next();
            System.out.print("Enter salary:::");
            float sal=sc.nextFloat();
            System.out.print("Enter Number:::");
            String num=sc.next();

            String sql="insert into faculty(facName,salary,number) values('"+name+"','"+sal+"','"+num+"')";

            //Step:5: Execute Querry--->for insert,delete,update use executeUpdate()
        }
    }
}

```

```

    int r=st.executeUpdate(sql);
    if (r>0)
    {
        System.out.println();
        System.out.println("insertion Success"+i);
        System.out.println();
    }
    else
    {
        System.out.println("Insertion failed"+i);
    }
}
}

```

---

```

import java.sql.*;
import java.util.*;

/**5***/Update in Database
public class updateJDBC1
{
    public static void main(String[] args) throws Exception
    {
        String dburl="jdbc:mysql://localhost:3306/lju";
        String dbuser="root";
        String dbpass="";
        String driverName="com.mysql.cj.jdbc.Driver";

        //Step:1: Load Driver
        Class.forName(driverName);

        //Step:2:Connect with db
        Connection con=DriverManager.getConnection(dburl,dbuser,dbpass);

        //check is connection Establihed?
        if(con!=null)
        {
            System.out.println();
            System.out.println("Connection Success");
            System.out.println();
        }
        else
        {
            System.out.println("Connection failed");
        }

        //Step:3>Create statement obj
        Statement st=con.createStatement();
    }
}

```

**//Step:4:Write update Querry for faculty table.**

```
String sql="update faculty set salary=25000 where facName='jjs"'; // querry
```

#### Different ways to write Update Query

```
String sql1="update faculty set number=979721 where facName='jjs' AND salary=25000"; // querry
String sql2="update faculty set number=212122, salary=50000 where facName='vvp"'; // querry
String sql3="update faculty set salary=75000";
```

**//Step:5: Execute Querry--->for insert,delete,update use executeUpdate()**

```
int r=st.executeUpdate(sql); //returns int values no. of rows effected
```

```
if (r>0)
{
    System.out.println();
    System.out.println("Update Success in "+r+" rows");
    System.out.println();
}
else
{
    System.out.println("Update failed");
}
}
```

---

**/\*\*6\*\*/ Delete from Database**

```
import java.sql.*;
import java.util.*;

public class deleteJDBC1
{
    public static void main(String[] args) throws Exception
    {
        String dburl="jdbc:mysql://localhost:3306/lju";
        String dbuser="root";
        String dbpass="";
        String driverName="com.mysql.cj.jdbc.Driver";
    }
}
```

**//Step:1: Load Driver**

```
Class.forName(driverName);
```

**//Step:2:Connect with db**

```
Connection con=DriverManager.getConnection(dburl,dbuser,dbpass);
```

**//check is connection Establihed?**

```
if(con!=null)
{
    System.out.println();
    System.out.println("Connection Success");
    System.out.println();
```

```

        }
    else
    {
        System.out.println("Connection failed");
    }

//Step:3:Create statement obj

Statement st=con.createStatement();

//Step:4:Write deleteQuerry for faculty table.

String sql="delete from faculty where facName='jjs"'; // querry
String sql1="delete from faculty where salary=75000"; // querry

//Step:5: Execute Querry--->for insert,delete,update use executeUpdate()

int r=st.executeUpdate(sql1);//returns int values no. of rows effected
if (r>0)
{
    System.out.println();
    System.out.println("Deletion Success in "+r+" rows");
    System.out.println();
}
else
{
    System.out.println("Deletion failed");
}
}
}

```

---

```

import java.sql.*;
import java.util.*;
/**7**/how to fetch data from Table?
public class selectJDBC1
{
    public static void main(String[] args) throws Exception
    {
        String dburl="jdbc:mysql://localhost:3306/lju";
        String dbuser="root";
        String dbpass="";
        String driverName="com.mysql.cj.jdbc.Driver";

//Step:1: Load Driver

Class.forName(driverName);

//Step:2:Connect with db

Connection con=DriverManager.getConnection(dburl,dbuser,dbpass);

```

```
//check is connection Establihed?  
if(con!=null)  
{  
    System.out.println();  
    System.out.println("Connection Success");  
    System.out.println();  
}  
else  
{  
    System.out.println("Connection failed");  
}
```

### **//Step:3:Create statement obj**

```
Statement st=con.createStatement();
```

### **//Step:4:Write insert Querry for faculty table.**

```
String sql="select * from faculty"; // querry
```

### **//Step:5: Execute Querry**

```
ResultSet rs=st.executeQuery(sql);
```

```
while(rs.next()) //returns true false  
{  
    //display data on consol  
    System.out.println("FacId="+rs.getInt(1));  
    System.out.println("FacName="+rs.getString(2));  
    System.out.println("Salary="+rs.getFloat("salary"));  
    System.out.println("number="+rs.getString("number"));  
}  
}
```

---

```
import java.sql.*;  
import java.util.*;  
/**8** how to fetch data from Table?  
public class selectJDBC2  
{  
    public static void main(String[] args) throws Exception  
    {  
        String dburl="jdbc:mysql://localhost:3306/lju";  
        String dbuser="root";  
        String dbpass="";  
        String driverName="com.mysql.cj.jdbc.Driver";
```

### **//Step:1: Load Driver**

```
Class.forName(driverName);
```

### **//Step:2:Connect with db**

```
Connection con=DriverManager.getConnection(dburl,dbuser,dbpass);
```

```
//check is connection Established?
```

```
if(con!=null)
{
    System.out.println();
    System.out.println("Connection Success");
    System.out.println();
}
else
{
    System.out.println("Connection failed");
}
```

```
//Step:3:Create statement obj
```

```
Statement st=con.createStatement();
```

```
//Step:4:Write insert Querry for faculty table.
```

```
String sql="select facName,salary from faculty where number='12345"'; // querry
```

```
ResultSet rs=st.executeQuery(sql);//returns int values no. of rows effected
```

```
while(rs.next()) //returns true false
{
    //Display data on console
    System.out.println("FacName="+rs.getString(1));
    System.out.println("Salary="+rs.getFloat(2));
}
}
```

```
/**9**// CRUD
```

```
import java.sql.*;
import java.util.*;
public class crudJDBC1
{
    static Connection con=null;
    static Statement st=null;
    static Scanner sc=new Scanner(System.in);
    static void insertData() throws Exception
    {
        System.out.print("Enter Project Name::");
        String pname=sc.next();
        System.out.print("Enter Project Type::");
        String ptype=sc.next();
        System.out.print("Enter Project Cost::");
        float pcost=sc.nextFloat();
```

```

String sql="insert into project (pname,ptype,pcost) values(\"+pname+\" ,\"+ptype+\" ,\"+pcost+)";
int r=st.executeUpdate(sql);
if (r>0)
{
    System.out.println();
    System.out.println("Insert Success in "+r+" rows");
    System.out.println();
}
else
{
    System.out.println("Insert failed");
}
}

static void deleteData() throws Exception
{
    System.out.print("Enter project name you want to delete::");
    String name=sc.next();
    String sql= "delete from project where pname=\""+name+"\"";
    int r=st.executeUpdate(sql);
    if (r>0)
    {
        System.out.println();
        System.out.println("Deletion Success in "+r+" rows");
        System.out.println();
    }
    else
    {
        System.out.println("Deletion failed");
    }
}

static void updateData() throws Exception
{
    System.out.print("Enter project's cost you want to update::");
    String name=sc.next();
    System.out.print("Enter New Cost");
    float cost=sc.nextFloat();
    String sql="update Project set pcost="+cost+" where pname=\""+name+"\"";
    int r=st.executeUpdate(sql);
    if (r>0)
    {
        System.out.println();
        System.out.println("Update Success in "+r+" rows");
        System.out.println();
    }
    else
    {
        System.out.println("Update failed");
    }
}

static void showWebsite() throws Exception
{
}

```

```

String sql="select * from project where ptype='website"'; // querry

ResultSet rs=st.executeQuery(sql);//returns int values no. of rows effected

while(rs.next())    //returns true false
{
    System.out.println();
    System.out.println("projectId="+rs.getInt(1));
    System.out.println(" projectName="+rs.getString(2));
    System.out.println(" project type="+rs.getString(3));
    System.out.println(" project cost="+rs.getFloat(4));
    System.out.println();
}

static void showApp() throws Exception
{
    String sql="select * from project where ptype='APP"'; // querry
    ResultSet rs=st.executeQuery(sql);//returns int values no. of rows effected

    while(rs.next())    //returns true false
    {
        System.out.println();
        System.out.println("projectId="+rs.getInt(1));
        System.out.println(" projectName="+rs.getString(2));
        System.out.println(" project type="+rs.getString(3));
        System.out.println(" project cost="+rs.getFloat(4));
        System.out.println();
    }
}

static void showAll() throws Exception
{
    String sql="select * from project"; // querry
    ResultSet rs=st.executeQuery(sql);//returns int values no. of rows effected

    while(rs.next())    //returns true false
    {
        System.out.println();
        System.out.println("projectId="+rs.getInt(1));
        System.out.println(" projectName="+rs.getString(2));
        System.out.println(" project type="+rs.getString(3));
        System.out.println(" project cost="+rs.getFloat(4));
        System.out.println();
    }
}

public static void main(String[] args) throws Exception
{
    String dburl="jdbc:mysql://localhost:3306/lju";
    String dbuser="root";
    String dbpass="";
}

```

```

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

con=DriverManager.getConnection(dburl,dbuser,dbpass);
if(con!=null)
{
    System.out.println();
    System.out.println("Connection Success");
    System.out.println();
}
else
{
    System.out.println("Connection failed");
}

st=con.createStatement();
int ch;
do
{
    System.out.print("Enter 1 for Insert \n Enter 2 for Delete \n Enter 3 for Update \n Enter 4 for Select \n
                    Enter 5 for Exit \n");

    System.out.print("Enter your Choice =");
    ch=sc.nextInt();
    switch(ch)
    {
        case 1:
            insertData();
            break;
        case 2:
            deleteData();
            break;
        case 3:
            updateData();
            break;
        case 4:
            int ch1;
            do
            {
                System.out.println();
                System.out.print("Enter 1 for view WebsiteData \n Enter 2 for APP data \n Enter 3 for ALL \n
                                Enter 4 to go back \n");

                System.out.print("Enter your Choice =");
                ch1=sc.nextInt();
                switch(ch1)
                {
                    case 1:
                        showWebsite();
                        break;

                    case 2:
                        showApp();
                        break;
                }
            }
    }
}

```

```
case 3:  
    showAll();  
    break;  
  
case 4:  
    System.out.println();  
    break;  
  
default:  
    System.out.println();  
    System.out.println("*****enter valid Choice*****");  
}  
}while(ch1!=4);  
  
case 5:  
break;  
  
default:  
System.out.println();  
System.out.println("*****enter valid choice*****");  
System.out.println();  
  
}  
}while(ch!=5);  
}  
}
```