

```
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 Establihed?

        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 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 Query for faculty table.
```

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

```
//Step:5: Execute Query--->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 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 Query for faculty table.
```

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

```
//Step:5: Execute Query--->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 Query--->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 Query for faculty table.**

**String sql="update faculty set salary=25000 where facName='jjs'; // query**

#### Different ways to write Update Query

**String sql1="update faculty set number=979721 where facName='jjs' AND salary=25000"; // query**

**String sql2="update faculty set number=212122, salary=50000 where facName='vvp'; // query**

**String sql3="update faculty set salary=75000";**

**//Step:5: Execute Query--->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 deleteQuery for faculty table.

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

//Step:5: Execute Query--->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 Query for faculty table.**

**String sql="select \* from faculty"; // query**

**//Step:5: Execute Query**

**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 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 Query for faculty table.
```

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

```
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'; // query

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'; // query
    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"; // query
    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);
}
}
```