

```
===== Steps to connect Java with Database using JDBC =====
1. Load & Register Driver
    => Class.forName("driver class");
2. Create connection
    => Connection con = DriverManager.getConnection("url", "username", "password");
3. Create statement
    => PreparedStatement ps = con.prepareStatement("sql query");
4. Execute SQL statement
    => ps.executeUpdate();
5. Process the result
6. Close the connection
```

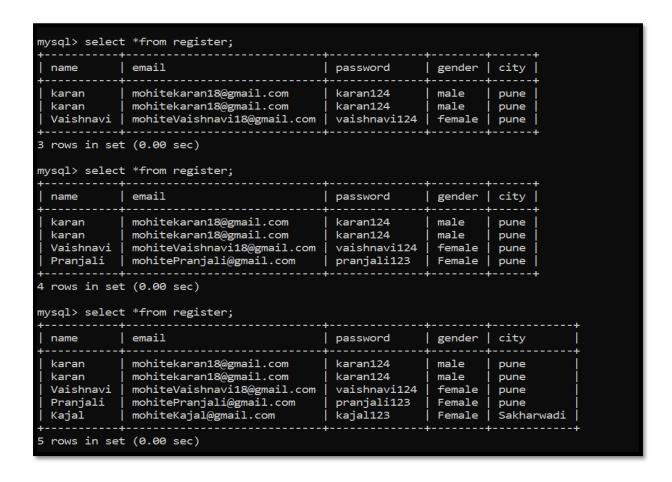
### Code:

```
package in.sp.test;
import java.sql.Connection;
import java.sql.DriverManager;
import java.sql.PreparedStatement;
public class InsertDemo
{
        public static void main(String args[])throws Exception
        {
    //----User Values---
                String name1="Kajal";
                String email="mohiteKajal@gmail.com";
                String pass1="kajal123";
                String gender="Female";
                String city="Sakharwadi";
                //---load and register Driver--
    Class.forName("com.mysql.cj.jdbc.Driver");
```

```
//Create Connection
                Connection
con=DriverManager.getConnection("jdbc:mysql://localhost:3306/jdbc_db","root","root");
                //--Create Statement
                PreparedStatement ps = con.prepareStatement("insert into register
values(?,?,?,?,?)");
                ps.setString(1,name1);
                ps.setString(2, email);
                ps.setString(3, pass1);
                ps.setString(4,gender);
                ps.setString(5,city);
                //Execute SQL Statement
                int i=ps.executeUpdate();
                //Process the result
                if(i>0)
                {
                        System.out.println("Sucesss..!!!");
                }
                else
                {
                        System.out.print("Fail");
                }
        }
}
```

#### **OUTPUT:**

```
mysql> create database jdbc_db;
Query OK, 1 row affected (0.06 sec)
mysql> use jdbc_db;
mysql> create table register(name varchar(100),email varchar(100),password varchar(100),gender varchar(10),city varchar(50));
Query OK, 0 rows affected (0.09 sec)
mysql> desc register;
  Field
               Type
                                    | Null | Key | Default | Extra |
                 varchar(100)
varchar(100)
varchar(100)
varchar(10)
varchar(50)
                                                        NULL
NULL
   name
email
                                      YES
                                                        NULL
NULL
   gender
city
                                      YES
YES
                                                        NULL
 5 rows in set (0.01 sec)
mysql> select *from register;
Empty set (0.01 sec)
mysql> select *from register;
 | name | email
                                                password | gender | city |
  karan | mohitekaran18@gmail.com
karan | mohitekaran18@gmail.com
                                                 karan124 |
karan124 |
                                                                male
                                                                             pune
2 rows in set (0.00 sec)
```

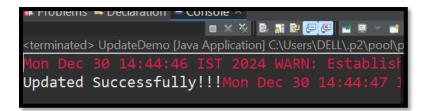


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# **UpdateDemo:**

```
package in.sp.update;
import java.sql.Connection;
import java.sql.DriverManager;
import java.sql.PreparedStatement;
public class UpdateDemo
       public static void main(String args[])throws Exception
              String city1="Mumbai";
              String email1="mohiteKajal@gmail.com";
              Class.forName("com.mysql.cj.jdbc.Driver");
           //Create Connection
                     Connection
con=DriverManager.getConnection("jdbc:mysql://localhost:3306/jdbc db","root","root");
                     //--Create Statement
                     PreparedStatement ps = con.prepareStatement("update register set
city=? where email=?");
                     ps.setString(1,city1);
                     ps.setString(2, email1);
                     int count=ps.executeUpdate();
                     if(count>0)
                            System.out.print("Updated Successfully!!!");
                     else
                            System.out.print("Updation Failed");
                     con.close();
       }
OUTPUT:
```





```
mysql> show tables;
 Tables_in_jdbc_db
 register
1 row in set (0.11 sec)
mysql> select *from register;
 name
                                             password
                                                             gender
                                                                      city
 karan
              mohitekaran18@gmail.com
                                             karan124
                                                             male
                                                                      pune
 karan
              mohitekaran18@gmail.com
                                             karan124
                                                             male
                                                                      pune
                                             vaishnavi124
 Vaishnavi
              mohiteVaishnavi18@gmail.com
                                                             female
                                                                      pune
              mohitePranjali@gmail.com
                                             pranjali123
                                                             Female
 Pranjali
                                                                      pune
 Kajal
              mohiteKajal@gmail.com
                                             kajal123
                                                             Female
                                                                      Sakharwadi
5 rows in set (0.08 sec)
mysql> select *from register;
 name
              email
                                                                      city
                                             password
                                                             gender
 karan
              mohitekaran18@gmail.com
                                             karan124
                                                             male
                                                                      pune
  karan
              mohitekaran18@gmail.com
                                             karan124
                                                             male
                                                                      pune
  Vaishnavi
              mohiteVaishnavi18@gmail.com
                                             vaishnavi124
                                                             female
                                                                      pune
  Pranjali
              mohitePranjali@gmail.com
                                             pranjali123
                                                             Female
                                                                      pune
 Kajal
              mohiteKajal@gmail.com
                                             kajal123
                                                             Female
                                                                      Mumbai
 rows in set (0.00 sec)
```

## **DeletionDemo:**

**Karan Mohite** 

```
package in.sp.Delete;
import java.sql.Connection;
import java.sql.DriverManager;
import java.sql.PreparedStatement;

public class DeleteDemo
{
     public static void main(String args[])throws Exception
     {
          String email1=" mohiteVaishnavi18@gmail.com";
          Class.forName("com.mysql.cj.jdbc.Driver");
```



```
//Cre
```

Deletion Success..!!

**Karan Mohite** 

```
//Create Connection
              Connection
con=DriverManager.getConnection("jdbc:mysql://localhost:3306/jdbc db","root","root");
                     //--Create Statement
              PreparedStatement ps = con.prepareStatement("Delete from register where
email=?");
              ps.setString(1, email1);
              int count =ps.executeUpdate();
              if(count>0)
                      System.out.println("Deletion Success..!!");
              }
              else
              {
                      System.out.println("Deletion Failed..!!");
              }
       }
}
```

```
mysql> select *from register;
              email
                                              password
  name
                                                             gender
                                                                       city
  Vaishnavi
              mohiteVaishnavi18@gmail.com
                                              vaishnavi124
                                                             female
                                                                       pune
  Pranjali
              mohitePranjali@gmail.com
                                              pranjali123
                                                             Female
                                                                       pune
                                              kajal123
              mohiteKajal@gmail.com
  Kajal
                                                             Female
                                                                       Mumbai
3 rows in set (0.00 sec)
mysql> select *from register;
 name
             email
                                         password
                                                        gender
                                                                 city
  Pranjali
             mohitePranjali@gmail.com
                                                        Female
                                         pranjali123
                                                                  pune
             mohiteKajal@gmail.com
                                         kajal123
                                                        Female
                                                                 Mumbai
  Kajal
```



# To retrive the data from the database:

```
package in.sp.Select;
import java.sql.Connection;
import java.sql.DriverManager;
import java.sql.PreparedStatement;
import java.sql.ResultSet;
public class SelectDemo
{
       public static void main(String args[])throws Exception
       {
              Class.forName("com.mysql.cj.jdbc.Driver");
           //Create Connection
              Connection
con=DriverManager.getConnection("jdbc:mysql://localhost:3306/jdbc_db","root","root");
                     //--Create Statement
              PreparedStatement ps = con.prepareStatement("select *from register");
              ResultSet rs=ps.executeQuery();
              while(rs.next())
              {
                     System.out.println("Name :"+rs.getString("name"));
                     System.out.println("Email:"+rs.getString("email"));
                     System.out.println("Password :"+rs.getString("password"));
                     System.out.println("Gender:"+rs.getString("gender"));
                     System.out.println("City :"+rs.getString("city"));
                     System. out. println("-----");
              }
```

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```
con.close();
}
```

## **OUTPUT:**

Name :Pranjali
Email :mohitePranjali@gmail.com
Password :pranjali123
Gender :Female
City :pune
----Name :Kajal
Email :mohiteKajal@gmail.com
Password :kajal123
Gender :Female
City :Mumbai