

Insert a data in database

```
import java.sql.Connection;
import java.sql.DriverManager;
import java.sql.Statement;
public class Demo1 {
    public static void main(String[] args) {
        String query="insert into jdbc.employee values(3,'raja','software developer',400000)";
        String url="jdbc:mysql://localhost:3306?user=root&password=root";
    try {
        Class.forName("com.mysql.cj.jdbc.Driver");
        System.out.println("step 1 is done");

        Connection con =DriverManager.getConnection(url);
        System.out.println("step 2 is done");

        Statement stmt=con.createStatement();
        System.out.println("step 3 is done");

        stmt.executeUpdate(query);
        System.out.println("step 4 is done");
    }catch(Exception e) {

        e.printStackTrace();

    }
}
```

Update a data in database

```
import java.sql.Connection;
import java.sql.DriverManager;
import java.sql.Statement;

public class UpdateData {
    public static void main(String[] args) {

        String url="jdbc:mysql://localhost:3306?user=root&password=root";
        String query="update satyam.info set salary=9000,name='ram' where id=2";
        try {
            Class.forName("com.mysql.cj.jdbc.Driver");

            Connection con=DriverManager.getConnection(url);

            Statement stmt=con.createStatement();

            Int result=stmt.executeUpdate(query);

            if (result==1) {
                System.out.println("data inserted successfully");
            } else {
                System.out.println("data Not inserted successfully !!!!!!!!!!!");
            }
        }catch(Exception e) {
            e.printStackTrace();
        }
    }
}
```

Delete a data in database

```
import java.sql.Connection;
import java.sql.DriverManager;
import java.sql.Statement;

public class DeleteData {
    public static void main(String[] args) {

        String url="jdbc:mysql://localhost:3306?user=root&password=root";
        String query="delete from satyam.info where id=1";
        try {

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

            Connection con=DriverManager.getConnection(url);

            Statement stmt=con.createStatement();

            int      result=stmt.executeUpdate(query);

            if (result==1) {
                System.out.println("data deleted successfully");
            } else {
                System.out.println("data  Not deleted successfully  !!!!!!!!!!!!!");
            }
        } catch (Exception e) {
            e.printStackTrace();
        }
    }
}
```

Fetch all data in database

```
import java.sql.Connection;
import java.sql.DriverManager;
import java.sql.ResultSet;
import java.sql.Statement;

public class FetchAllRecords {
    public static void main(String[] args) {

        String url = "jdbc:mysql://localhost:3306?user=root&password=root";
        String query = "select* from satyam.info ";
        try {

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

            Connection con = DriverManager.getConnection(url);

            Statement stmt = con.createStatement();

            ResultSet rs = stmt.executeQuery(query);
            while (rs.next()) {
                int id = rs.getInt(1);
                System.out.print("Id =" + id + "\t");
                String name = rs.getString(2);
                System.out.print("Name =" + name + "\t");
                double salary = rs.getDouble(3);
                System.out.print("Salary =" + salary + "\t");
                System.out.println("");
            }
        } catch (Exception e) {
            e.printStackTrace();
        }
    }
}
```

INSERT data in database with the help of placeholder

```
import java.sql.Connection;
import java.sql.DriverManager;
import java.sql.PreparedStatement;
import java.util.Scanner;

public class JdbcWithPlaceHolder {

    public static void main(String[] args) {
        Scanner sc=new Scanner(System.in);
        System.out.println("Enter the id here");
        int id=sc.nextInt();
        System.out.println("Enter the name here");
        String name=sc.next();
        System.out.println("Enter the salary here");
        double salary=sc.nextDouble();

        String url="jdbc:mysql://localhost:3306?user=root&password=root";
        String query="insert into satyam.info values(?,?,?)";
        try {
            Class.forName("com.mysql.cj.jdbc.Driver");
            System.out.println("step 1 is done");

            Connection con =DriverManager.getConnection(url);
            System.out.println("step 2 is done");

            PreparedStatement pstmt=con.prepareStatement(query);
            System.out.println("step 3 is done");

            pstmt.setInt(1, id);
            pstmt.setString(2, name);
            pstmt.setDouble(3, salary);
            System.out.println("step 4 is done");
            pstmt.executeUpdate();
            System.out.println("data inserted successfully !!!!!!!!!!!!!!!");

        }catch(Exception e) {
            e.printStackTrace();
        }
    }
}
```

Update data in database with the help of placeholder

```
import java.sql.Connection;
import java.sql.DriverManager;
import java.sql.PreparedStatement;
import java.util.Scanner;

public class UpdateRecordsWithPlaceholder {
    public static void main(String[] args) {
        String query="update satyam.info set name=?,salary=? where id=?";
        String url="jdbc:mysql://localhost:3306?user=root&password=root";

        Scanner sc=new Scanner(System.in);
        System.out.println("Enter the id here");
        int id=sc.nextInt();

        System.out.println("Enter the name here");
        String name=sc.next();

        System.out.println("Enter the salary here");
        double salary=sc.nextDouble();

        try {
```

```

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

Connection con =DriverManager.getConnection(url);

PreparedStatement pstmt=con.prepareStatement(query);

pstmt.setInt(3, id);
pstmt.setString(1, name);
pstmt.setDouble(2, salery);

int result=pstmt.executeUpdate();
if(result==1) {
    System.out.println("data updated successfully");
}else {
    System.out.println("data Not updated successfully");
}

}

}catch(Exception e) {
    e.printStackTrace();
}

}
}

```

Delete data in database with the help of placeholder

```

import java.sql.Connection;
import java.sql.DriverManager;
import java.sql.PreparedStatement;
import java.util.Scanner;

public class DeleteDataWithPlaceholder {
    public static void main(String[] args) {
        String query="delete from satyam.info where id=?";
        String url="jdbc:mysql://localhost:3306?user=root&password=root";

        Scanner sc=new Scanner(System.in);
        System.out.println("Enter the id here");
        int id=sc.nextInt();

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

            Connection con =DriverManager.getConnection(url);

            PreparedStatement pstmt=con.prepareStatement(query);

            pstmt.setInt(1, id);

            int result=pstmt.executeUpdate();
            if(result==1) {
                System.out.println("data Deleted successfully");
            }else {
                System.out.println("data Not Deleted successfully");
            }

        }

        }catch(Exception e) {
            e.printStackTrace();
        }

    }
}

```

Fetch data in database with the help of placeholder

```
import java.sql.Connection;
import java.sql.DriverManager;
import java.sql.PreparedStatement;
import java.sql.ResultSet;
import java.util.Scanner;

public class FetchTheRecordWithPlaceholder {

    public static void main(String[] args) {
        Scanner sc = new Scanner(System.in);
        System.out.println("Enter the id here");
        int id = sc.nextInt();

        String url = "jdbc:mysql://localhost:3306?user=root&password=root";
        String query = "select* from satyam.info where id=?";
        try {
            Class.forName("com.mysql.cj.jdbc.Driver");

            Connection con = DriverManager.getConnection(url);

            PreparedStatement pstmt = con.prepareStatement(query);

            pstmt.setInt(1, id);
            ResultSet rs= pstmt.executeQuery();

            if(rs.next()) {
                int sid=rs.getInt(1);
                String name=rs.getString(2);
                System.out.println("id :-"+sid+", name :-"+name);
            }else {
                System.out.println("sorry data id not present");
            }
        } catch (Exception e) {
            e.printStackTrace();
        }
        main(args);
    }
}
```

Servlet dependency

```
<!-- https://mvnrepository.com/artifact/javax.servlet/javax.servlet-api -->
<dependency>
    <groupId>javax.servlet</groupId>
    <artifactId>javax.servlet-api</artifactId>
    <version>4.0.1</version>
    <scope>provided</scope>
</dependency>
```

Jsp dependency

```
<!-- https://mvnrepository.com/artifact/javax.servlet.jsp/javax.servlet.jsp-api -->
<dependency>
    <groupId>javax.servlet.jsp</groupId>
    <artifactId>javax.servlet.jsp-api</artifactId>
    <version>2.3.3</version>
    <scope>provided</scope>
</dependency>
```

Mysql dependency

```
<!-- https://mvnrepository.com/artifact/com.mysql/mysql-connector-j -->
<dependency>
  <groupId>com.mysql</groupId>
  <artifactId>mysql-connector-j</artifactId>
  <version>8.1.0</version>
</dependency>
```