JDBC

Java DataBase Connectivity

Steps to Connect JAVA with DB:

Step 1: Instantiate proper Driver

Step 2: Open Connection to a DB

Step 3: Establish connection to a DB

Step 4: Query DB (Insert,Update,Delete)

Step 5: Process the result

Step 6: Close the connection

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Step 1:- Instantiate proper driver.
dependencies{

Implementation 'mysql:mysql-connector-java:8.0.33'

}

Step 2:- Open Connection to a database

Database	JDBC URL
MS SQL Server	jdbc:odbc:DemoDSN
Oracle	jdbc:oracle:thin@myserver:1521:demodb
MySQL	jdbc:mysql://localhost:3306/demodb

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Step 3:- Establish connection to a database

DriverManager.getConnection(url,user,password)

```java
public class JdbcDeleteDemo {

    Run | Debug
    public static void main(String[] args) throws SQLException {

        Connection myConn = null;
        Statement myStmt = null;
        ResultSet myRs = null;

        String dbUrl = "jdbc:mysql://localhost:3306/demo";
        String user = "student";
        String pass = "student";

        try {
            // Get a connection to database
            myConn = DriverManager.getConnection(dbUrl, user, pass);

            // Create a statement
            myStmt = myConn.createStatement();
```

Step 4:- Query Database (or insert/update/delete)

```java
System.out.println(x:"Inserting a new employee to
database\n");

int rowsAffected = myStmt.executeUpdate(
    "insert into employees " +
    "(last_name, first_name, email, department, salary) " +
    "values " +
    "('Wright', 'Eric', 'eric.wright@foo.com', 'HR', 33000.
    00)");

// 4. Verify this by getting a list of employees
myRs = myStmt.executeQuery(sql:"select * from employees
order by last_name");

// 5. Process the result set
while (myRs.next()) {
    System.out.println(myRs.getString
    (columnLabel:"last_name") + ", " + myRs.getString
    (columnLabel:"first_name"));
}
```

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Step 5 & 6:- Process the result and Close Connection

```java
        // 5. Process the result set
        while (myRs.next()) {
            System.out.println(myRs.getString
            (columnLabel:"last_name") + ", " + myRs.getString
            (columnLabel:"first_name"));
        }
    }
catch (Exception exc) {
    exc.printStackTrace();
}
finally {
    if (myRs != null) {
        myRs.close();
    }

    if (myStmt != null) {
        myStmt.close();
    }

    if (myConn != null) {
        myConn.close();
    }
}
```

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