

## **Experiment – 03**

### **Advance Java Lab (5CS4-24)**

#### **Class – B.Tech III Year, V Sem.**

---

#### **Objective:**

**3.1 - Write a Java program that makes a Connection with database using JDBC and prints metadata of this connection.**

#### **Code:**

```
import java.sql.*;

class MysqlCon{

public static void main(String args[]){ try{ Class.forName("com.mysql.jdbc.Driver");

Connection con=DriverManager.getConnection( "jdbc:mysql://localhost:3306/db","root","root");

//here db is database name, root is username and password

Statement stmt=con.createStatement();

ResultSet rs=stmt.executeQuery("select * from emp");

while(rs.next())

System.out.println(rs.getInt(1)+" "+rs.getString(2)+" "+rs.getString(3));

con.close();

}

catch(Exception e){ System.out.println(e);}

}

}
```

**Objective – 3.2 Include the database Connectivity in the program to insert, update, delete and display of information.**

```
package com.devdaily.sqlprocessortests;
```

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

```
public class BasicJDBCDemo
```

***Poornima College of Engineering, Jaipur***

```
{  
Connection conn;  
public static void main(String[] args)  
{  
new BasicJDBCDemo();  
}  
public BasicJDBCDemo()  
{  
try{  
Class.forName("com.mysql.jdbc.Driver").newInstance();  
  
String url = "jdbc:mysql://localhost/coffeebreak";  
conn = DriverManager.getConnection(url, "username", "password");  
doTests();  
conn.close();  
}  
catch (ClassNotFoundException ex) {  
System.err.println(ex.getMessage());  
}  
catch (IllegalAccessException ex) {  
System.err.println(ex.getMessage());  
}  
catch (InstantiationException ex) {  
System.err.println(ex.getMessage());  
}  
catch (SQLException ex){  
System.err.println(ex.getMessage());  
}  
}  
}  
private void doTests()
```

***Poornima College of Engineering, Jaipur***

```
{
doSelectTest();
doInsertTest();

doSelectTest();

doUpdateTest();

doSelectTest();

doDeleteTest();

doSelectTest();
}

private void doSelectTest()
{
System.out.println("[OUTPUT FROM SELECT]");
String query = "SELECT COF_NAME, PRICE FROM COFFEES";
try
{
Statement st = conn.createStatement();

ResultSet rs = st.executeQuery(query);

while (rs.next())
{
String s = rs.getString("COF_NAME");

float n = rs.getFloat("PRICE");

System.out.println(s + " " + n);
}
}
```

***Poornima College of Engineering, Jaipur***

```
catch (SQLException ex)

{

System.err.println(ex.getMessage());

}}

private void doInsertTest()

{

System.out.print("\n[Performing INSERT] ... "); try

{

Statement st = conn.createStatement();

st.executeUpdate("INSERT INTO COFFEES " +

"VALUES ('BREAKFAST BLEND', 200, 7.99, 0, 0)");

}

catch (SQLException ex)

{

System.err.println(ex.getMessage());

}

}

private void doUpdateTest()

{

System.out.print("\n[Performing UPDATE] ... "); try

{

Statement st = conn.createStatement();

st.executeUpdate("UPDATE COFFEES SET PRICE=4.99 WHERE

COF_NAME='BREAKFAST BLEND'");

}

catch (SQLException ex){

System.err.println(ex.getMessage());}
```

```
}  
  
private void doDeleteTest()  
{  
    System.out.print("\n[Performing DELETE] ... "); try  
{  
        Statement st = conn.createStatement();  
        st.executeUpdate("DELETE FROM COFFEES WHERE COF_NAME='BREAKFAST BLEND'");  
    }  
    catch (SQLException ex)  
    {  
        System.err.println(ex.getMessage());  
    }  
}
```

