Smart Bridge - Model Application Development (Java Spring Boot)

Assessment -3

Aim:

To implement JDBC Connectivity using java.

Retrieve data using JDBC :

Code:

```
import java.sql.Connection;
import java.sql.DriverManager;
import java.sql.ResultSet;
import java.sql.Statement;
public class retrieve{
	public static void main(String args[]) {
		try {
			// 1.register the driver
			Class.forName("com.mysql.jdbc.Driver");
			// 2.Making connection
			Connection contn =
DriverManager.getConnection("jdbc:mysql://localhost:3306/Myproject", "root", "Madhu@2024");
			// 3.Create the Statement
			Statement stmt = contn.createStatement();
			// 4.Execute query
			ResultSet res = stmt.executeQuery("select * from fruits");

			while (res.next()) {
				System.out.println(res.getInt(1)+"\t"+res.getString(2)+"\t"+res.getInt(3));
			}
```

```
                    // 5.close the conenction
                    contn.close();
                } catch (Exception e) {
                }
        }
}
```

*retrieve.java

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

public class retrieve{

    public static void main(String args[]) {
        try {
            // 1.register the driver
            Class.forName("com.mysql.jdbc.Driver");

            // 2.Making connection
            Connection contn = DriverManager.getConnection("jdbc:mysql://localhost:3306/Myproject", "root", "tiger");

            // 3.Create the Statement
            Statement stmt = contn.createStatement();

            // 4.Execute query
            ResultSet res = stmt.executeQuery("select * from fruits");

            while (res.next()) {
                System.out.println(res.getInt(1)+"\t"+res.getString(2)+"\t"+res.getInt(3));
            }

            // 5.close the conenction
            contn.close();
        } catch (Exception e) {

        }
    }
```

Output:

Problems Javadoc Declaration Console Coverage

<terminated> retrieve [Java Application] C:\Users\ELCOT\.p2\pool\plugins\org.eclipse.justj.openjdk.hotspot.jre.full.win32.x86_64_18.0.1.v20220515-1614\jre\bin\javaw.exe (07-Jun-2023, 8:26:31 pm – 8:26:35 pm) [pid: 6560]

```
Loading class `com.mysql.jdbc.Driver'. This is deprecated. The new driver class is `com.mysql.cj.jdbc.Driver'. The driver is automat
1       Apple   150
2       Orange  120
3       Mango   80
4       Grapes  100
```

Update the data:

Code:

```
import java.sql.Connection;
import java.sql.DriverManager;
import java.sql.ResultSet;
import java.sql.Statement;
public class Update {
	public static void main(String[] args) {
		try {
			Class.forName("com.mysql.jdbc.Driver");
			Connection
con=DriverManager.getConnection("jdbc:mysql://localhost:3306/myproject","root","tiger");
			Statement stmt=con.createStatement();
int rs=stmt.executeUpdate("insert into fruits(sno,name,price) values(5,\"Pomegranate\",140)");

			if(rs>0)
			{
				System.out.println("Successfully Updated");
			}
			ResultSet r=stmt.executeQuery("Select * from fruits");
			System.out.println();
			System.out.println();
			while(r.next())
			{
		System.out.println(r.getString(1)+"\t"+r.getString(2)+"\t"+r.getString(3));
			}
		}
		catch(Exception e){
			System.out.println(e.toString());
		}
```

```
        }
}
```

```java
import java.sql.Connection;
public class Update {

    public static void main(String[] args) {
        try {
            Class.forName("com.mysql.jdbc.Driver");
            Connection con=DriverManager.getConnection("jdbc:mysql://localhost:3306/myproject","root","tiger");
            Statement stmt=con.createStatement();
            int rs=stmt.executeUpdate("insert into fruits(sno,name,price) values(5,\"Pomegranate\",140)");

            if(rs>0)
            {
                System.out.println("Successfully Updated");
            }
            ResultSet r=stmt.executeQuery("Select * from fruits");
            System.out.println();
            System.out.println();
            while(r.next())
            {
                System.out.println(r.getString(1)+"\t"+r.getString(2)+"\t"+r.getString(3));
            }
        }
        catch(Exception e){
            System.out.println(e.toString());
        }

    }
```

Output:

```
Problems  Javadoc  Declaration  Console  Coverage
<terminated> Update [Java Application] C:\Users\ELCOT\.p2\pool\plugins\org.eclipse.justj.openjdk.hotspot.jre.full.win32.x86_64_18.0.1.v20220515-1614\jre\bin\javaw.exe  (07-Jun-2023, 8:22:19 pm – 8:22:24 pm) [pid: 1492]
Loading class `com.mysql.jdbc.Driver'. This is deprecated. The new driver class is `com.mysql.cj.jdbc.Driver'. The driver is automat
Successfully Updated


1       Apple   150
2       Orange  120
3       Mango   80
4       Grapes  100
5       Pomegranate     140
```

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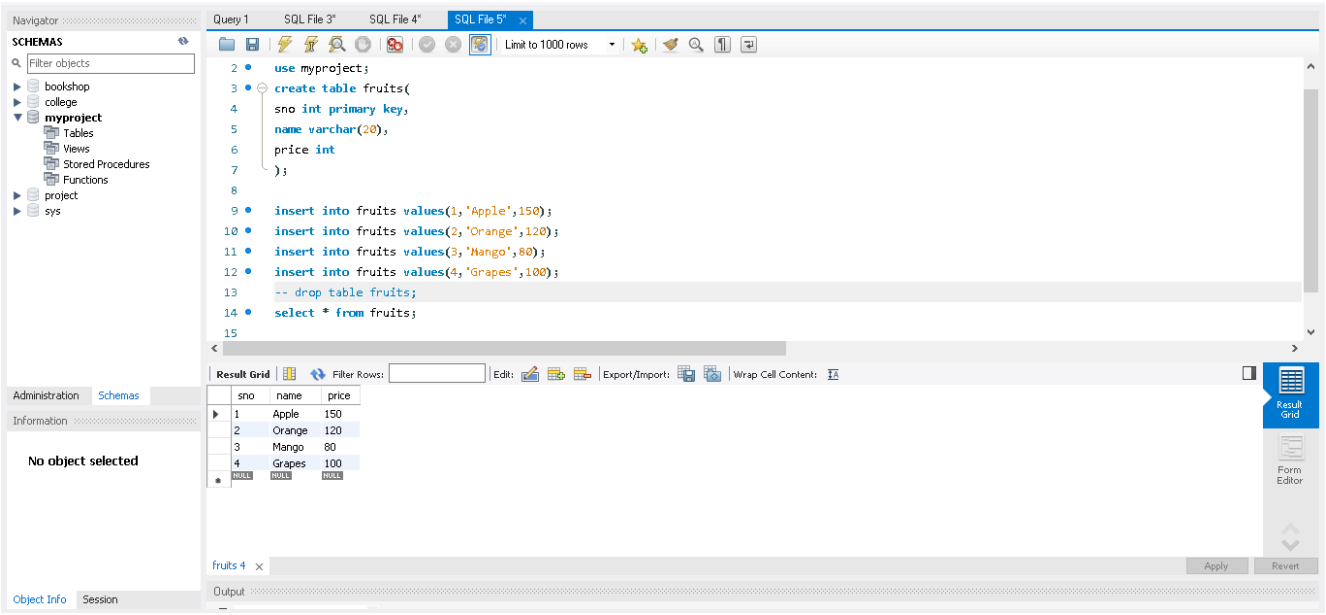
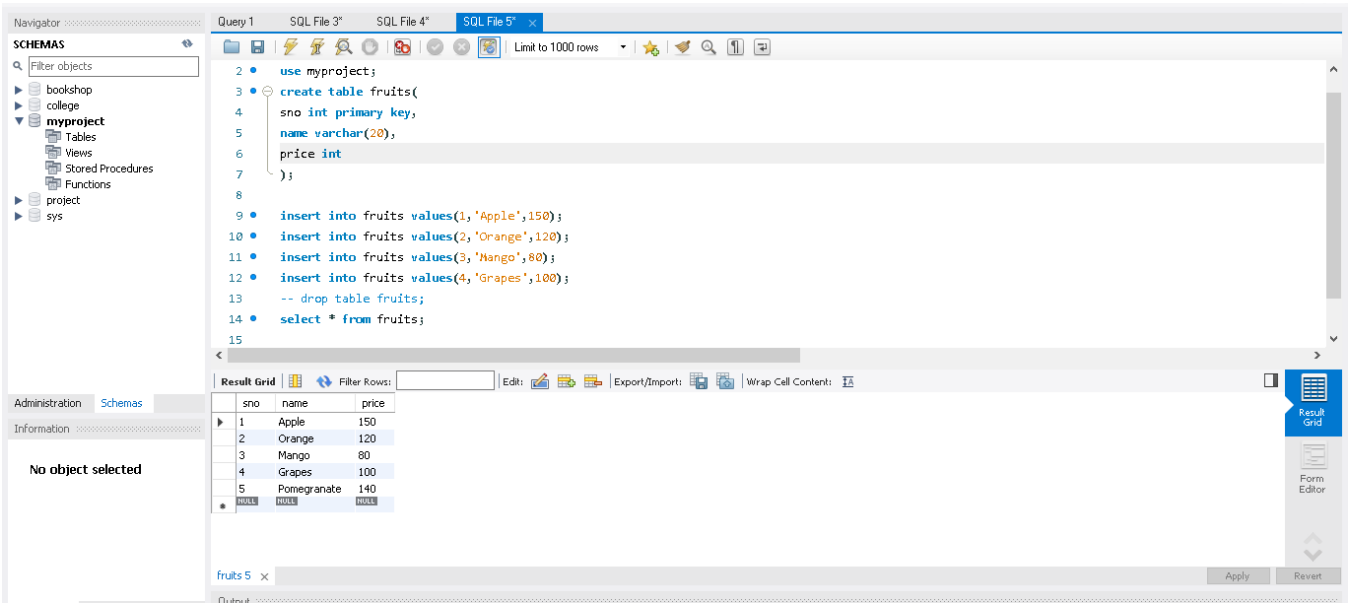
Before insert the data:



After insert the data:



Conclusion:

The JDBC connectivity has implemented and the retrieved data ihas updated successfully using java.