Smart Bridge – Modern Application Development (Java Spring Boot)

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Assignment-3

1.JDBC Connection Using Eclipse java IDE:

Code:

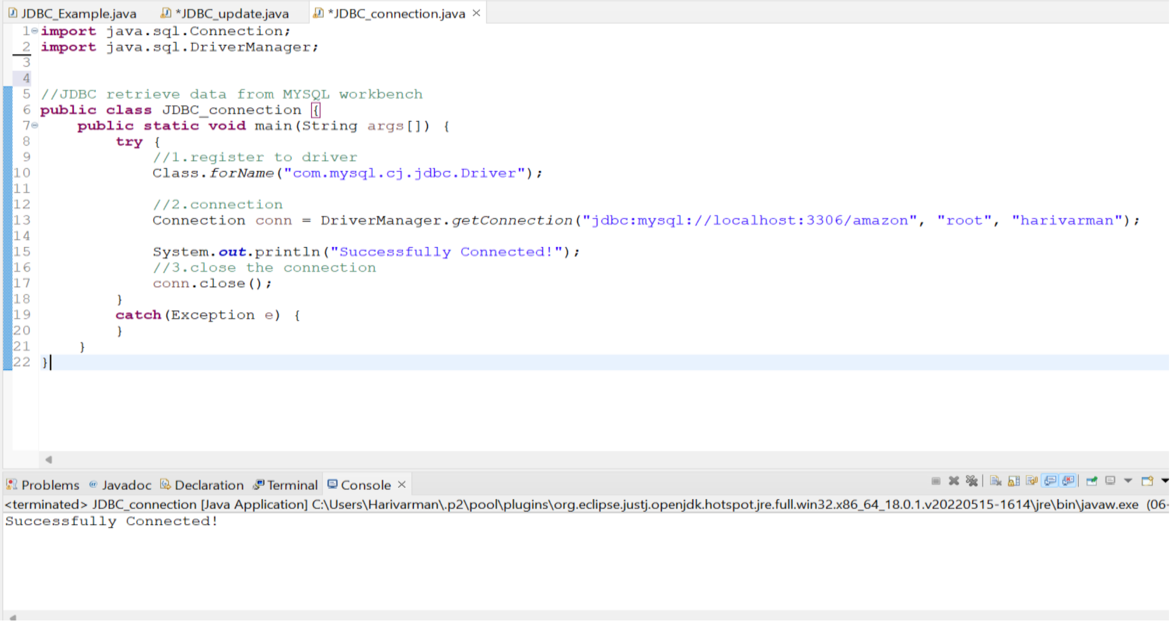
```java
import java.sql.Connection;
import java.sql.DriverManager;


//JDBC retrieve data from MYSQL workbench
public class JDBC_connection {
	public static void main(String args[]) {
		try {
			//1.register to driver
			Class.forName("com.mysql.cj.jdbc.Driver");

			//2.connection
			Connection conn = 
DriverManager.getConnection("jdbc:mysql://localhost:3306/amazon", "root", 
"harivarman");

			System.out.println("Successfully Connected!");
			//3.close the connection
			conn.close();
		}
		catch(Exception e) {
		}
	}
}
```

Output:



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

            //2.connection
            Connection conn = DriverManager.getConnection("jdbc:mysql://localhost:3306/amazon", "root", "harivarman");

            System.out.println("Successfully Connected!");
            //3.close the connection
            conn.close();
        }
        catch(Exception e) {
        }
    }
}
```

```
<terminated> JDBC_connection [Java Application] C:\Users\Harivarman\.p2\pool\plugins\org.eclipse.justj.openjdk.hotspot.jre.full.win32.x86_64_18.0.1.v20220515-1614\jre\bin\javaw.exe  (06-
Successfully Connected!
```

2.Retrieve Data using JDBC:

Code:

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

//JDBC retrieve data from MYSQL workbench
public class JDBC_Example {
      public static void main(String args[]) {
            try {
                  //1.register to driver
                  Class.forName("com.mysql.cj.jdbc.Driver");

                  //2.connection
                  Connection conn =
DriverManager.getConnection("jdbc:mysql://localhost:3306/amazon", "root",
"harivarman");

                  //3.statement
                  Statement stmt = conn.createStatement() ;

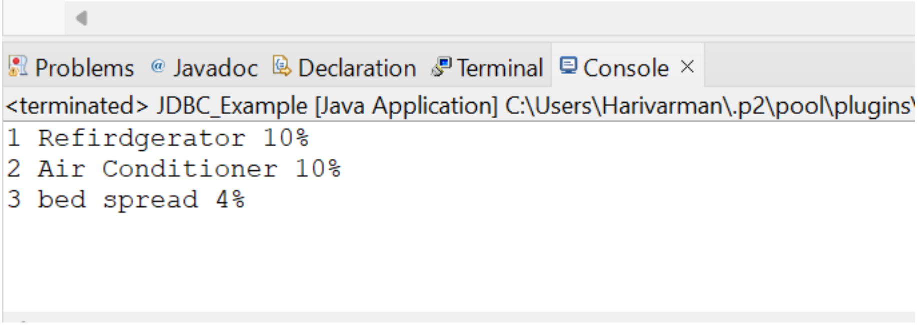
                  //4.execute query
                  ResultSet rs = stmt.executeQuery("select * from
festival_days");

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

                  // 5.close the connection
                  conn.close();
            } catch (Exception e) {

            }
      }
}
```

Output:



```
<terminated> JDBC_Example [Java Application] C:\Users\Harivarman\.p2\pool\plugins\
1 Refirdgerator 10%
2 Air Conditioner 10%
3 bed spread 4%
```

3.Update Data using JDBC:

Code:

```
import java.sql.Connection;
import java.sql.DriverManager;
import java.sql.Statement;
public class JDBC_update {

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

			//2.connection
			Connection conn =
DriverManager.getConnection("jdbc:mysql://localhost:3306/amazon", "root",
"harivarman");

			//3.statement
			Statement stmt = conn.createStatement() ;

			//4.execute query
			int rs = stmt.executeUpdate("insert into
products(sno,productname,price,discount) values(5,'TV',50000,'20%')");

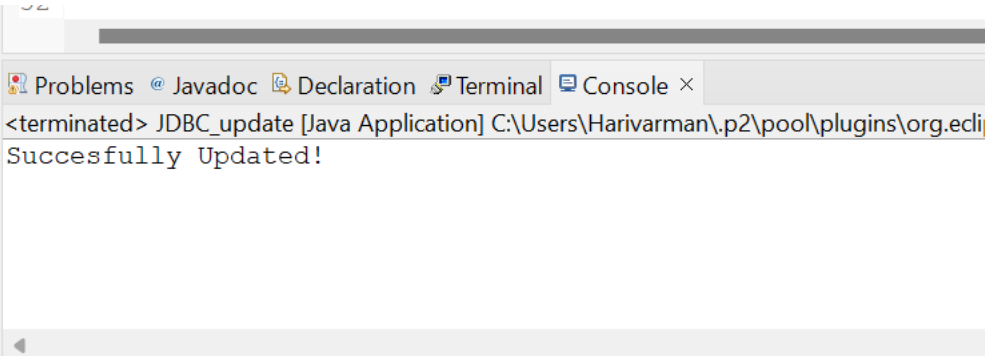
			if(rs>0) {
				System.out.println("Succesfully Updated!");
			}

			// 5.close the connection
			conn.close();
		} catch (Exception e) {

		}
	}

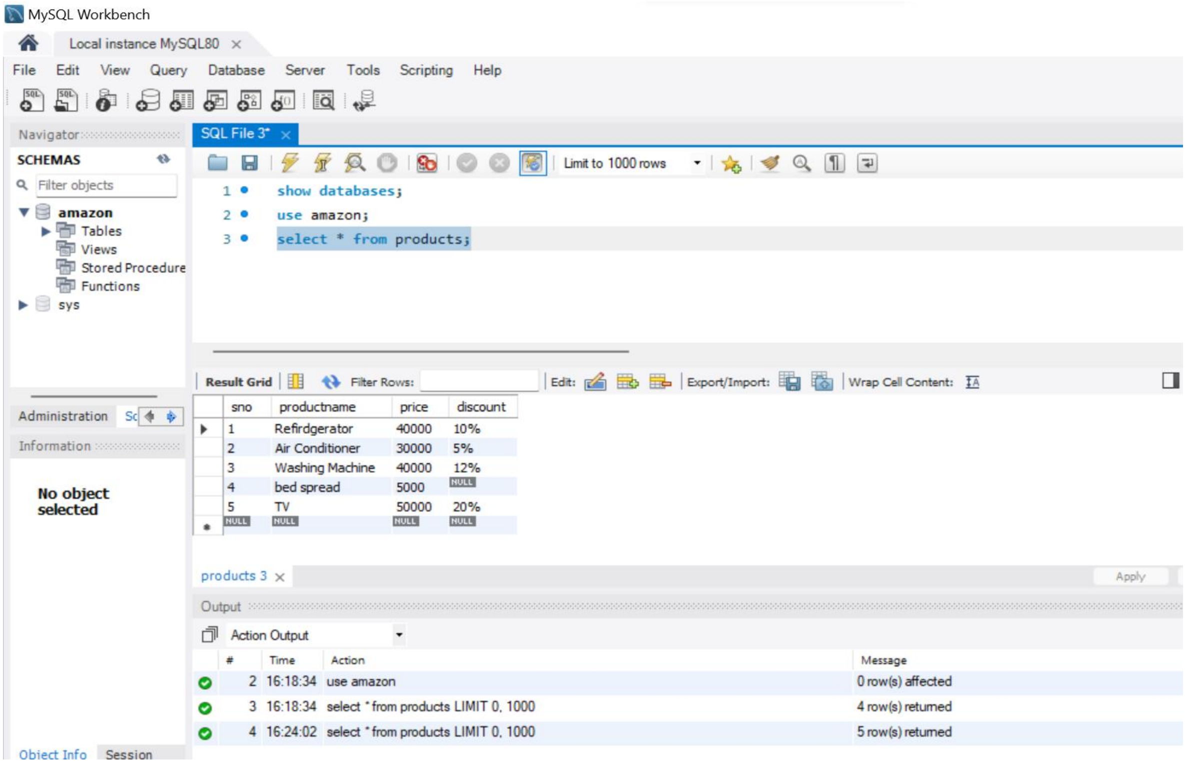
}
```

IDE output:



```
<terminated> JDBC_update [Java Application] C:\Users\Harivarman\.p2\pool\plugins\org.ecli
Succesfully Updated!
```

Before Insert the data:

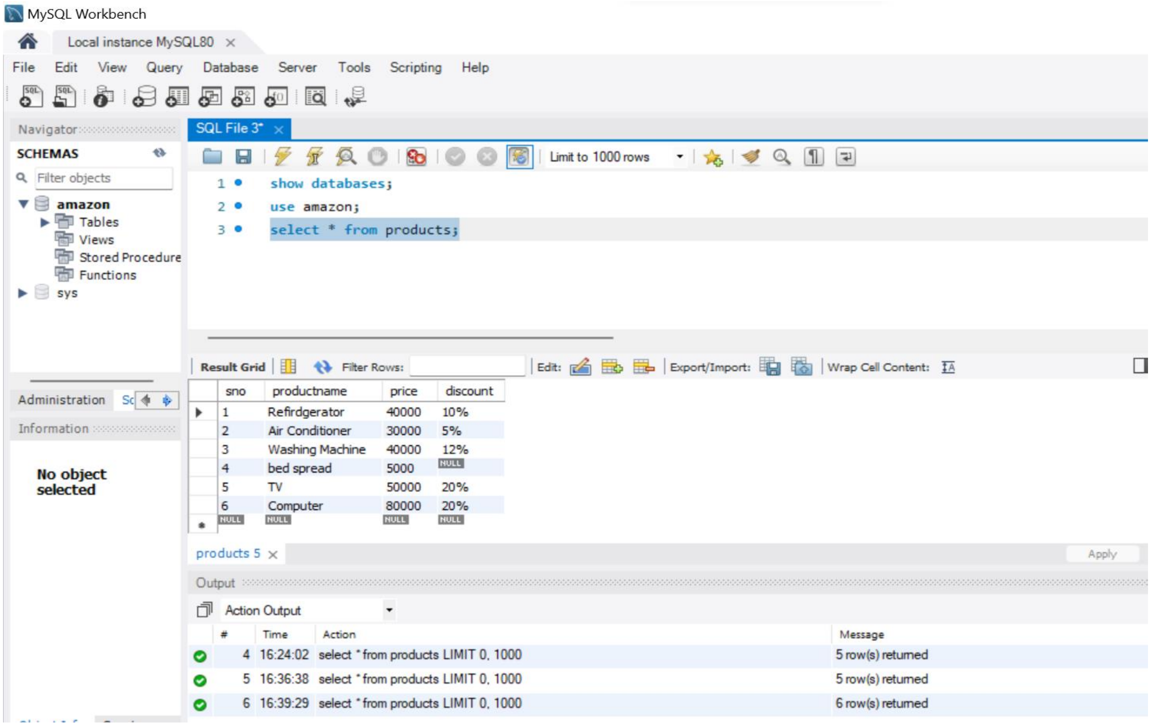


```
show databases;
use amazon;
select * from products;
```

sno	productname	price	discount
1	Refirdgerator	40000	10%
2	Air Conditioner	30000	5%
3	Washing Machine	40000	12%
4	bed spread	5000	NULL
5	TV	50000	20%
NULL	NULL	NULL	NULL

#	Time	Action	Message
2	16:18:34	use amazon	0 row(s) affected
3	16:18:34	select * from products LIMIT 0, 1000	4 row(s) returned
4	16:24:02	select * from products LIMIT 0, 1000	5 row(s) returned

After Insert the data:



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show databases;
use amazon;
select * from products;
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sno	productname	price	discount
1	Refirdgerator	40000	10%
2	Air Conditioner	30000	5%
3	Washing Machine	40000	12%
4	bed spread	5000	NULL
5	TV	50000	20%
6	Computer	80000	20%
NULL	NULL	NULL	NULL

#	Time	Action	Message
4	16:24:02	select * from products LIMIT 0, 1000	5 row(s) returned
5	16:36:38	select * from products LIMIT 0, 1000	5 row(s) returned
6	16:39:29	select * from products LIMIT 0, 1000	6 row(s) returned

Conclusion:

Using Eclipse IDE I have connected to the SQL Server and from which I have retrieved the data and also updated the data using JDBC.