

Smart Bridge assignment-3

Name: Dhanushiya D**Reg No: 20BEC0641****Implement JDBC connection using Java****Retrieving the Data**

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

public class MyClass {

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

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

            Statement stmt=con.createStatement();

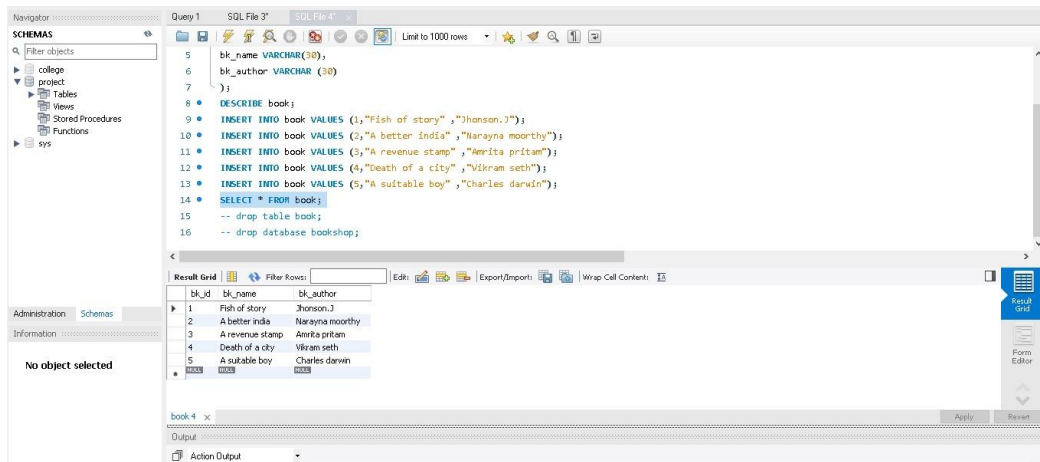
            ResultSet rs=stmt.executeQuery("Select * from book");
            while(rs.next())
            {

                System.out.println(rs.getString(1)+"\t"+rs.getString(2)+"\t"+rs.getString(3));
            }
        }
        catch(Exception e){
            System.out.println(e.toString());
        }
    }
}
```

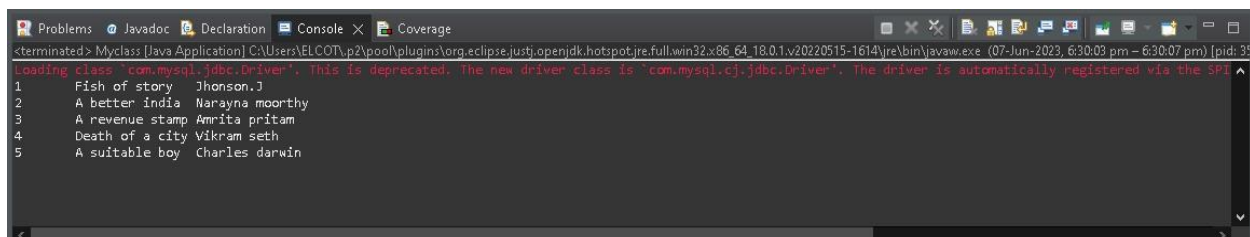
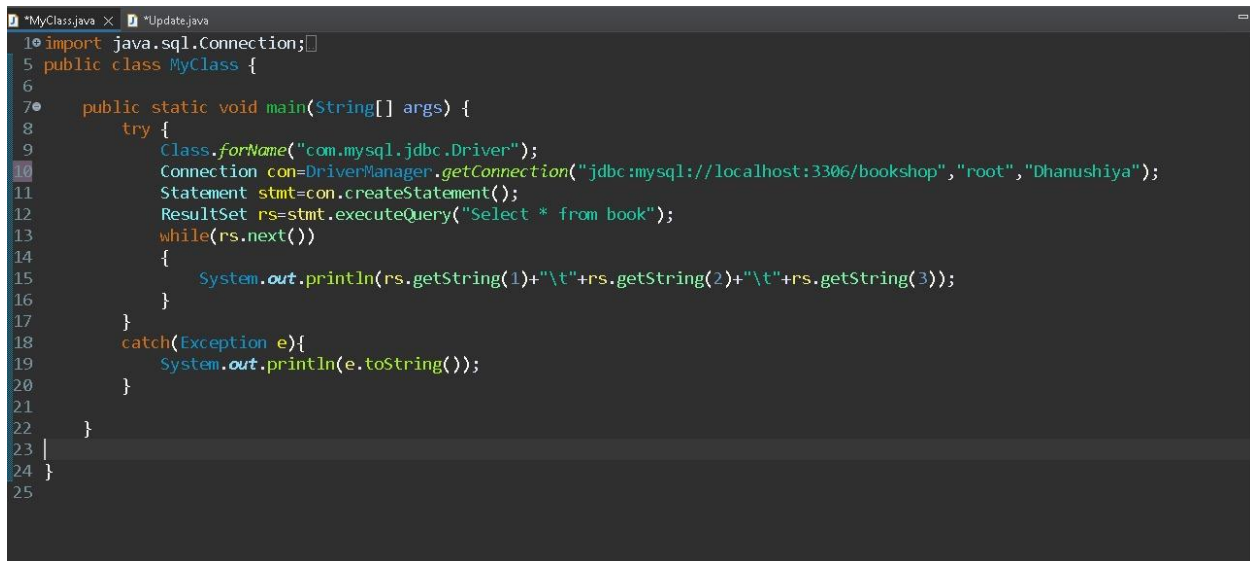
```
}

}
```

In mysql (creating the DataBase)



In eclipse Using java



Updating the Data

```
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/bookshop","root","Dhanushiya
");

            Statement stmt=con.createStatement();

            int rs=stmt.executeUpdate("insert into book(bk_id,bk_name,bk_author)
values(6,\"Atomic Habits\",\"James Clear\")");

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

            ResultSet r=stmt.executeQuery("Select * from book");

            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());  
  
}  
  
}  
  
}
```

In mysql

The screenshot displays a MySQL IDE interface. The left sidebar shows a 'SCHEMAS' tree with folders for 'college', 'project', 'Tables', 'Views', 'Stored Procedures', 'Functions', and 'sys'. The main editor window shows a SQL script with the following queries:

```
3 CREATE TABLE book(  
4   bk_id INT PRIMARY KEY,  
5   bk_name VARCHAR(30),  
6   bk_author VARCHAR (30)  
7 );  
8 DESCRIBE book;  
9 INSERT INTO book VALUES (1,"Fish of story", "Jhonson.J");  
10 INSERT INTO book VALUES (2,"A better india", "Narayna moorthy");  
11 INSERT INTO book VALUES (3,"A revenue stamp", "Amrita pritam");  
12 INSERT INTO book VALUES (4,"Death of a city", "Vikram seth");  
13 INSERT INTO book VALUES (5,"A suitable boy", "Charles darwin");  
14 SELECT * FROM book;  
15 -- drop table book;
```

The 'Result Grid' at the bottom shows the output of the SELECT query, displaying 6 rows of data:

| | bk_id | bk_name | bk_author |
|---|-------|-----------------|-----------------|
| 1 | 1 | Fish of story | Jhonson.J |
| 2 | 2 | A better india | Narayna moorthy |
| 3 | 3 | A revenue stamp | Amrita pritam |
| 4 | 4 | Death of a city | Vikram seth |
| 5 | 5 | A suitable boy | Charles darwin |
| 6 | 6 | Atomic Habits | James Clear |

The bottom status bar indicates 'book 7' is selected, with 'Apply' and 'Revert' buttons. The 'Output' section shows 'Action Output'.

In eclipse using Java

```
MyClass.java  *Update.java X
1 import java.sql.Connection;
5 public class Update {
6
7     public static void main(String[] args) {
8         try {
9             Class.forName("com.mysql.jdbc.Driver");
10            Connection con=DriverManager.getConnection("jdbc:mysql://localhost:3306/bookshop","root","Dhanushiya");
11            Statement stmt=con.createStatement();
12            int rs=stmt.executeUpdate("insert into book(bk_id,bk_name,bk_author) values(6,\"Atomic Habits\",\"James Clear\")");
13
14            if(rs>0)
15            {
16                System.out.println("Successfully Updated");
17            }
18            ResultSet r=stmt.executeQuery("Select * from book");
19            System.out.println();
20            System.out.println();
21            while(r.next())
22            {
23                System.out.println(r.getString(1)+"\t"+r.getString(2)+"\t"+r.getString(3));
24            }
25        }
26        catch(Exception e){
27            System.out.println(e.toString());
28        }
29    }
30 }
31
32 }
33
34 }
```

```
Problems  Javadoc  Declaration  Console X  Coverage
terminated> Update [Java Application] C:\Users\ELCOT\p2\pool\plugins\org.eclipse.justi.openjdk.hotspot.jre.full.win32.x86_64.18.0.1.v20220515-1614\jre\bin\javaw.exe (07-Jun-2023, 6:35:48 pm - 6:35:51 pm) [pid: 88]
Loading class 'com.mysql.jdbc.Driver'. This is deprecated. The new driver class is 'com.mysql.cj.jdbc.Driver'. The driver is automatically registered via the SPI
Successfully Updated

1      Fish of story  Jhonson.J
2      A better india  Narayna moorthy
3      A revenue stamp  Amrita pritam
4      Death of a city  Vikram seth
5      A suitable boy  Charles darwin
6      Atomic Habits  James Clear
```

Drive Link

<https://docs.google.com/document/d/1P6M17HAdEIAF7JPjQWMXkmuUo8gure35/edit?usp=sharing&oid=110831192887780273977&rtpof=true&sd=true>