SMARTBRIDGE EXTERNSHIP Modern Application Development (Java Spring Boot)

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WEEK 3 ASSIGNMENT – JDBC

We create a database called shop. Under that we create a table named items with itemname, weight, price and branch as columns.

Then we insert three records.

```
1  create database shop;
2  use shop;
3  create table items(itemname varchar(50), weight int, price int, branch varchar(50));
4  insert into items(itemname,weight,price,branch) values('Ice Cream - Vannila',100,20,'City A');
5  insert into items(itemname,weight,price,branch) values('Dark Chocolate',100,15,'City B');
6  insert into items(itemname,weight,price,branch) values('Ice Cream - Chocolate',100,25,'City A');
7  select * from items;
8
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content:

itemname	weight	price	branch
Ice Cream - Vannila	100	20	City A
Dark Chocolate	100	15	City B
Ice Cream - Chocolate	100	25	City A

We use the following JDBC code to insert another record and view it using Resultset too

CODE:

```
import java.sql.*;
import javax.swing.*;
public class jdbc
{ public static void main(String[] args) {


    try
    {
      Class.forName("com.mysql.cj.jdbc.Driver");
      Connection conn =
DriverManager.getConnection("jdbc:mysql://127.0.0.1:3306","root","mysqlpass@2023");
      String query = "insert into shop.items(itemname,weight,price,branch)
values('Chocobar',100,25,'City C')";
      Statement stmt = conn.createStatement();
      stmt.executeUpdate(query);


      String query1="select * from shop.items";
      ResultSet rs = stmt.executeQuery(query1);
      while (rs.next()) {


         System.out.print("ITEM-NAME: " + rs.getString("itemname"));
         System.out.print("     WEIGHT: " + rs.getInt("weight"));
         System.out.print("     PRICE: " + rs.getInt("price"));
         System.out.print("     BRANCH: " + rs.getString("branch"));
         System.out.println();


       }
    } catch(ClassNotFoundException | SQLException ex)
  {
      System.out.println("Error: "+ex);
```

```
    }
}
}
```

We can see that the record is inserted.

```
7 •  select * from items;
8
```

Result Grid | Filter Rows: | Export: | W

itemname	weight	price	branch
Ice Cream - Vannila	100	20	City A
Dark Chocolate	100	15	City B
Ice Cream - Chocolate	100	25	City A
Chocobar	100	25	City C

We also used ResultSet to display the results in the console too.

BlueJ: Terminal Window - 20BCE1128-SUPER DREAM INTERNSHIP

Options

```
ITEM-NAME: Ice Cream - Vannila      WEIGHT: 100      PRICE: 20      BRANCH: City A
ITEM-NAME: Dark Chocolate      WEIGHT: 100      PRICE: 15      BRANCH: City B
ITEM-NAME: Ice Cream - Chocolate      WEIGHT: 100      PRICE: 25      BRANCH: City A
ITEM-NAME: Chocobar      WEIGHT: 100      PRICE: 25      BRANCH: City C
```

We can use PreparedStatement to use parametrized queries

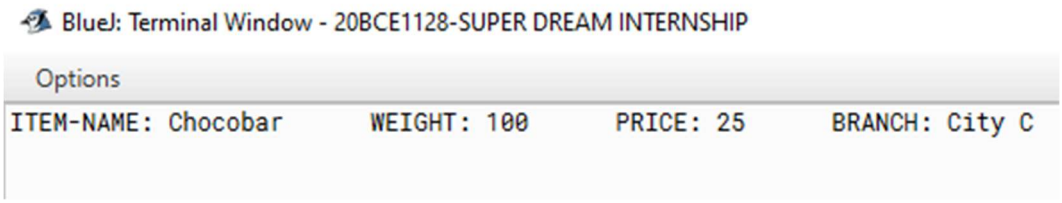
CODE:

```
import java.sql.*;
import javax.swing.*;
public class jdbc
{ public static void main(String[] args) {


    try
    {
      Class.forName("com.mysql.cj.jdbc.Driver");
      Connection conn =
DriverManager.getConnection("jdbc:mysql://127.0.0.1:3306","root","mysqlpass@2023");
      String query = "Select * from shop.items where price> ? and branch = ?";
      PreparedStatement myStmt = conn.prepareStatement(query);
      myStmt.setInt(1, 20);
      myStmt.setString(2, "City C");
      ResultSet rs = myStmt.executeQuery();
      while (rs.next()) {


         System.out.print("ITEM-NAME: " + rs.getString("itemname"));
         System.out.print("     WEIGHT: " + rs.getInt("weight"));
         System.out.print("     PRICE: " + rs.getInt("price"));
         System.out.print("     BRANCH: " + rs.getString("branch"));
         System.out.println();


       }
    } catch(ClassNotFoundException | SQLException ex)
   {
      System.out.println("Error: "+ex);
   }
}
}
```


BlueJ: Terminal Window - 20BCE1128-SUPER DREAM INTERNSHIP
Options
ITEM-NAME: Chocobar WEIGHT: 100 PRICE: 25 BRANCH: City C