

# **SMARTBRIDGE EXTERNSHIP**

## **Modern Application Development (Java Spring Boot)**

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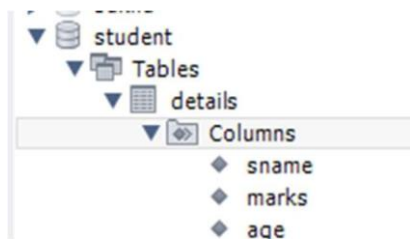
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### **WEEK 3 ASSIGNMENT – JDBC**

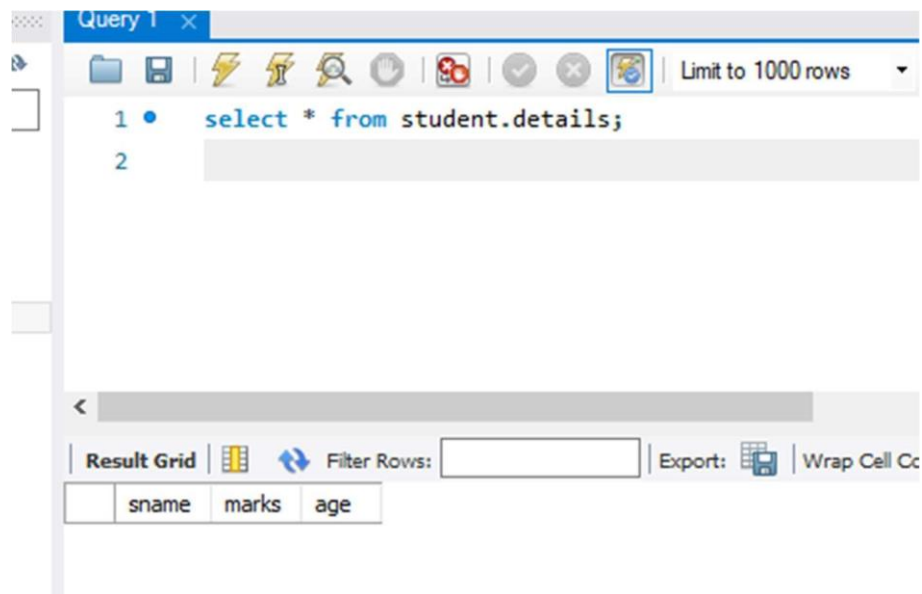
We are using BlueJ JDE for Java code and Mysql for SQL part.

First we have a database “student” with table “details” already created.



We have “sname”, “marks” and “age” as their columns with varchar(50), int and int as datatypes respectively.

**There is no data in the table at first**



**Then we use the following JDBC code to insert a record.CODE:**

```
import java.sql.*;
import javax.swing.*;

public class jdbcassignment
{ 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");Statement
        stmt = conn.createStatement();

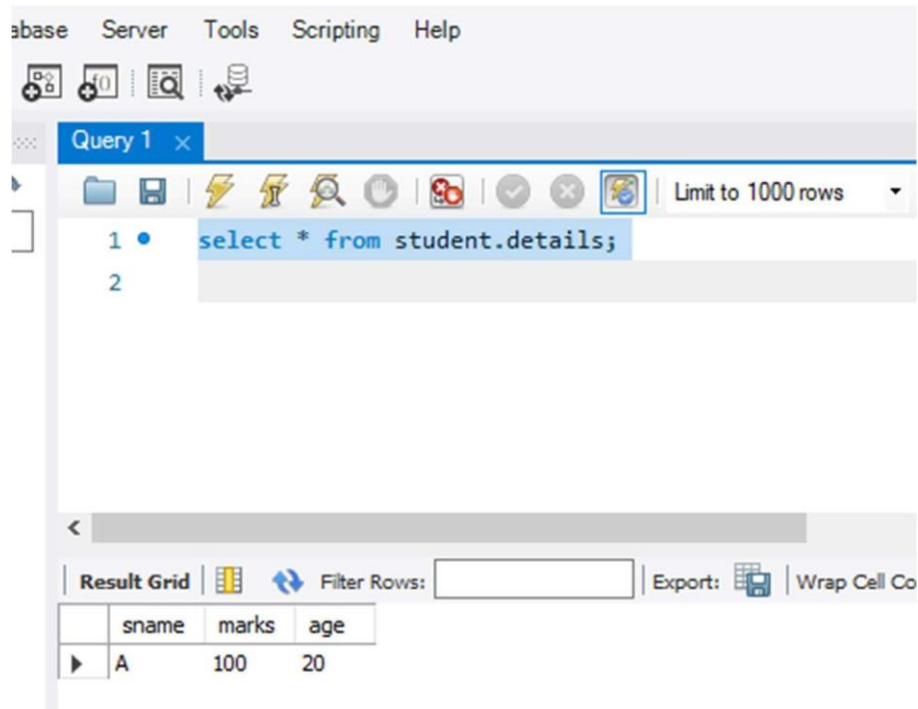
        String query = "insert into student.details(sname,marks,age) values('A',100,20)";
        Stmt.executeUpdate(query);
    } catch(ClassNotFoundException | SQLException ex)
    {
```

```

        System.out.println("Error: "+ex);
    }
}
}

```

**We can see that the record is inserted.**



**AFTER INSERTING WE CAN SEE THIS USING  
RESULTSET ALSO CODE:**

```

import java.sql.*;
import javax.swing.*;

public class jdbcassignment
{
    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");

Statement stmt = conn.createStatement();

String query1 = "select * from student.details";

ResultSet rs = stmt.executeQuery(query1);

while (rs.next()) {

    System.out.print("NAME: " +
rs.getString("sname"));System.out.print(", Marks: "
+ rs.getInt("marks")); System.out.print(", Age: " +
rs.getInt("age"));

    }

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

```



## WE CAN USE PREPARED STATEMENTS TO EXECUTE PARAMETERIZED QUERIES:CODE:

```

import java.sql.*;

import javax.swing.*;

public class jdbcassignment
{ 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 student.details where age> ? and marks = ?";

PreparedStatement myStmt = conn.prepareStatement(query);

myStmt.setInt(1, 18);

myStmt.setInt(2, 100);


// Execute SQL query

ResultSet rs = myStmt.executeQuery();

while (rs.next()) {

    System.out.print("NAME: " +
rs.getString("sname"));System.out.print(", Marks: "
+ rs.getInt("marks")); System.out.print(", Age: " +
rs.getInt("age"));

}

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

}

}

```

 BlueJ: Terminal Window - 20BCE1128-SUP

Options

NAME: A, Marks: 100, Age: 20