SMARTBRIDGE EXTERNSHIP Modern Application Development (Java Spring Boot)
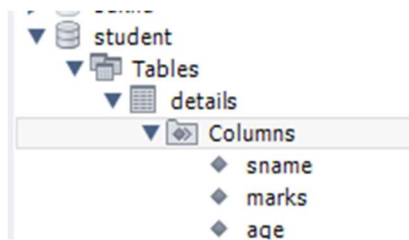
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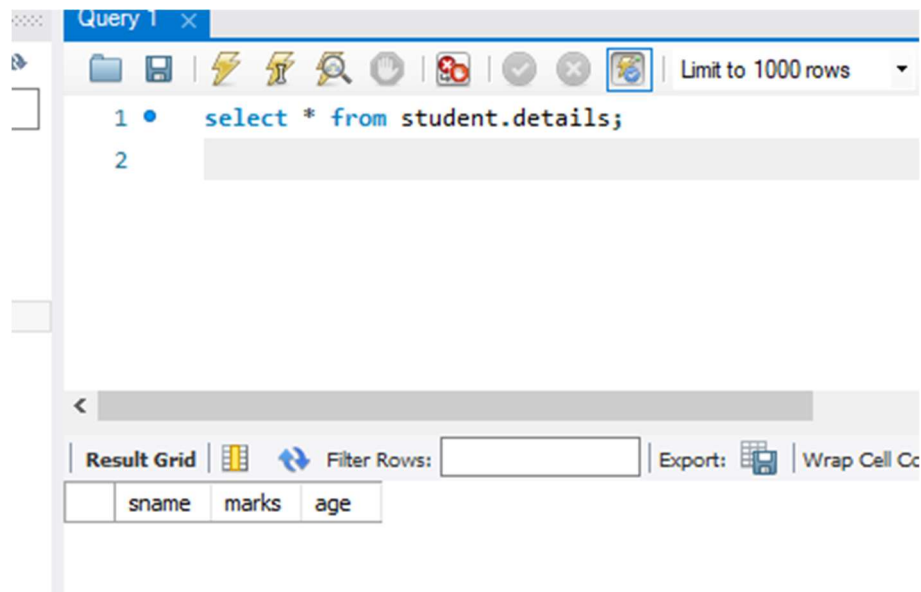EMAIL: saivignesh.n2020@vitstudent.ac.in

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:

```java
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)

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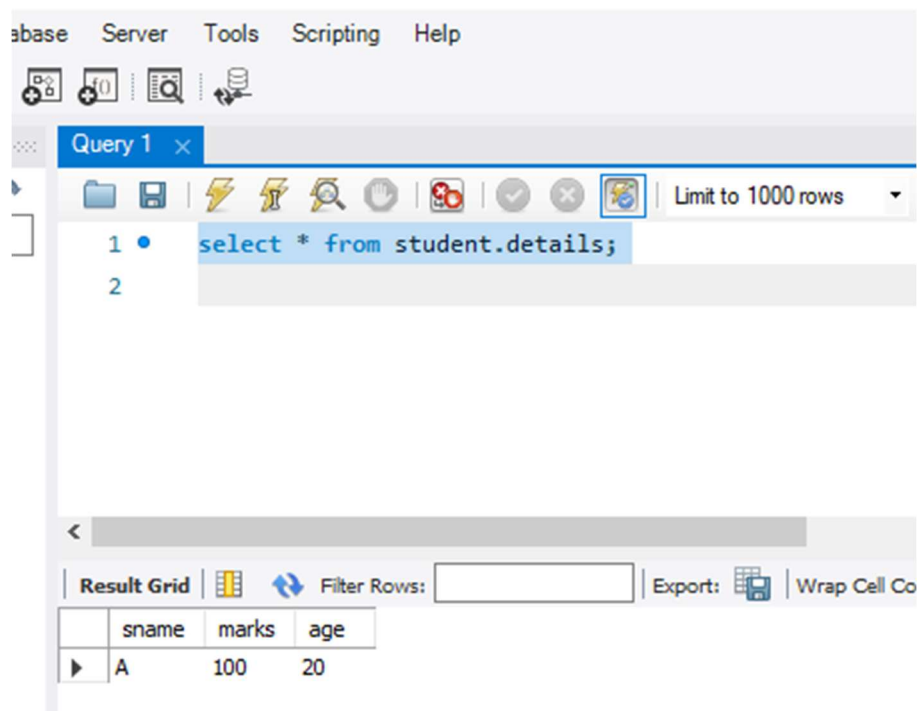
```
        System.out.println("Error: "+ex);

    }

  }

}
```

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");

```java
        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);

    }

}

}
```



```
BlueJ: Terminal Window - 20BCE1128-SU
Options
NAME: A, Marks: 100, Age: 20
```

WE CAN USE PREPARED STATEMENTS TO EXECUTE PARAMETERIZED QUERIES:

CODE:

```java
import java.sql.*;

import javax.swing.*;

public class jdbcassignment

{ public static void main(String[] args) {


    try

    {

        Class.forName("com.mysql.cj.jdbc.Driver");
```

```java
        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);

    }

}

}
```
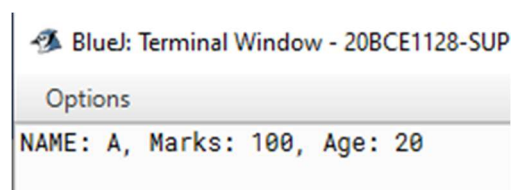

BlueJ: Terminal Window - 20BCE1128-SUP

Options

NAME: A, Marks: 100, Age: 20

GOOGLE DRIVE LINK:

https://drive.google.com/drive/folders/1YrUOZi_Ry0SlRWVhU9aEJk1E_9db5DPK?usp=sharing