SmartBridge

Modern Application Development (Java Spring Boot)

Week-3 Assignment

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JDBC Connectivity Using Java

Code:

```java
import java.sql.*;

public class ConnectJDBC {
    public static void main(String[] args) {
        String url = "jdbc:mysql://localhost:3306/smartbridge";
        String username = "root";
        String password = "*****";

        try {
            // Load the JDBC driver
            Class.forName("com.mysql.cj.jdbc.Driver");

            // Establish the connection
            Connection connection = DriverManager.getConnection(url,
username, password);

            // Execute a query
            Statement statement = connection.createStatement();
            ResultSet resultSet = statement.executeQuery("SELECT * FROM
customers");

            // Process the result set
            ResultSetMetaData metaData = resultSet.getMetaData();
            int ncol = metaData.getColumnCount();

            for (int i = 1; i <= ncol; i++) {
                System.out.print(metaData.getColumnName(i) + "\t\t");
            }
            System.out.println();

            while (resultSet.next()) {
                // Process each row
                for (int i = 1; i <= ncol; i++) {
                    System.out.print(resultSet.getString(i) + "\t");
                }
                System.out.println();
            }

            // Close the resources
            resultSet.close();
            statement.close();
            connection.close();
        }
```

```java
        catch (ClassNotFoundException e) {
            e.printStackTrace();
        }
        catch (SQLException e) {
            e.printStackTrace();
        }
    }
}
```

MySQL Database Customers Table

id	cname	email	phno
1	John Doe	johndoe@example.com	9898098980
2	Jane Smith	janesmith@example.com	9112091120
3	Bob Johnson	bobjohnson@example.com	9001001009
4	Sam Smith	samsmith@example.com	9002090020
NULL	NULL	NULL	NULL

Output:

```
PS C:\Users\naman\Desktop\VIT\Study Material\Summer Internship Courses\Code\ProjectJDBC>
ta\Local\Temp\cp_9dg1tqgifp457zlx2kahf64p5.argfile' 'ConnectJDBC'
id              cname           email             phno
1          John Doe       johndoe@example.com   9898098980
2          Jane Smith     janesmith@example.com 9112091120
3          Bob Johnson    bobjohnson@example.com 9001001009
4          Sam Smith      samsmith@example.com   9002090020
PS C:\Users\naman\Desktop\VIT\Study Material\Summer Internship Courses\Code\ProjectJDBC>
```