

## Assignment 3 Java Spring Boot Externship

### Java JDBC Implementation

```
import java.sql.*;

public class JdbcExample {
    public static void main(String[] args) {
        // JDBC connection variables
        String url = "jdbc:mysql://localhost:3306/mydatabase";
        String username = "your-username";
        String password = "your-password";

        // Step 1: Load the JDBC driver
        try {
            Class.forName("com.mysql.cj.jdbc.Driver");
        } catch (ClassNotFoundException e) {
            e.printStackTrace();
            return;
        }

        // Step 2: Establish the connection
        Connection connection = null;
        try {
            connection = DriverManager.getConnection(url, username,
password);
        } catch (SQLException e) {
            e.printStackTrace();
            return;
        }

        // Step 3: Execute a query
        Statement statement = null;
        ResultSet resultSet = null;
        try {
            statement = connection.createStatement();
            resultSet = statement.executeQuery("SELECT * FROM employees");

            // Step 4: Process the result set
            while (resultSet.next()) {
```

```

        int id = resultSet.getInt("id");
        String name = resultSet.getString("name");
        int age = resultSet.getInt("age");

        System.out.println("ID: " + id + ", Name: " + name + ", Age:
" + age);
    }
} catch (SQLException e) {
    e.printStackTrace();
} finally {
    // Step 5: Clean up resources
    try {
        if (resultSet != null) {
            resultSet.close();
        }
        if (statement != null) {
            statement.close();
        }
        if (connection != null) {
            connection.close();
        }
    } catch (SQLException e) {
        e.printStackTrace();
    }
}
}
}
}

```

### Sample Output -

```

ID: 1, Name: John Doe, Age: 30
ID: 2, Name: Jane Smith, Age: 28
ID: 3, Name: Mike Johnson, Age: 35

```