

WEEK 3 ASSIGNMENT

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```
import java.sql.*;

public class JdbcExample {
    // JDBC driver name and database URL
    static final String JDBC_DRIVER = "com.mysql.cj.jdbc.Driver";
    static final String DB_URL = "jdbc:mysql://localhost/test";

    // Database credentials
    static final String USER = "root";
    static final String PASS = "";

    public static void main(String[] args) {
        Connection conn = null;
        Statement stmt = null;
        try {
            // Register JDBC driver
            Class.forName(JDBC_DRIVER);

            // Open a connection
            System.out.println("Connecting to database...");
            conn = DriverManager.getConnection(DB_URL, USER, PASS);

            // Execute a query
            System.out.println("Creating statement...");
            stmt = conn.createStatement();
            String sql = "SELECT id, name, age FROM sample";
            ResultSet rs = stmt.executeQuery(sql);

            // Process the result set
            while (rs.next()) {
                // Retrieve by column name
                int id = rs.getInt("id");
                String name = rs.getString("name");
                int age = rs.getInt("age");
```

```
        // Display values
        System.out.println("ID: " + id);
        System.out.println("Name: " + name);
        System.out.println("Age: " + age);
        System.out.println("-----");
    }

    // Clean-up environment
    rs.close();
    stmt.close();
    conn.close();
} catch (SQLException se) {
    // Handle errors for JDBC
    se.printStackTrace();
} catch (Exception e) {
    // Handle errors for Class.forName
    e.printStackTrace();
} finally {
    // Finally block to close resources
    try {
        if (stmt != null) stmt.close();
    } catch (SQLException se2) {
        se2.printStackTrace();
    }
    try {
        if (conn != null) conn.close();
    } catch (SQLException se) {
        se.printStackTrace();
    }
}
System.out.println("Program completed successfully!");
-    }
}
```

Creating statement...

ID: 1

Name: luffy

Age: 20

ID: 2

Name: zoro

Age: 25

Program completed successfully!

BUILD SUCCESSFUL (total time: 0 seconds)