

# PRESENT BY

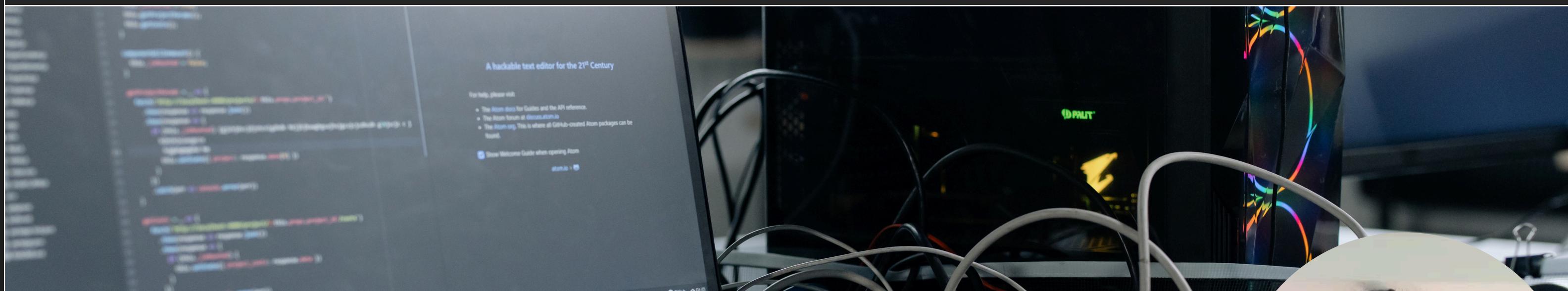


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# Use JDBC Row Set Provider, Row Set Factory, and Row Set interfaces in accordance with Java framework



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# OBJECTIVES:

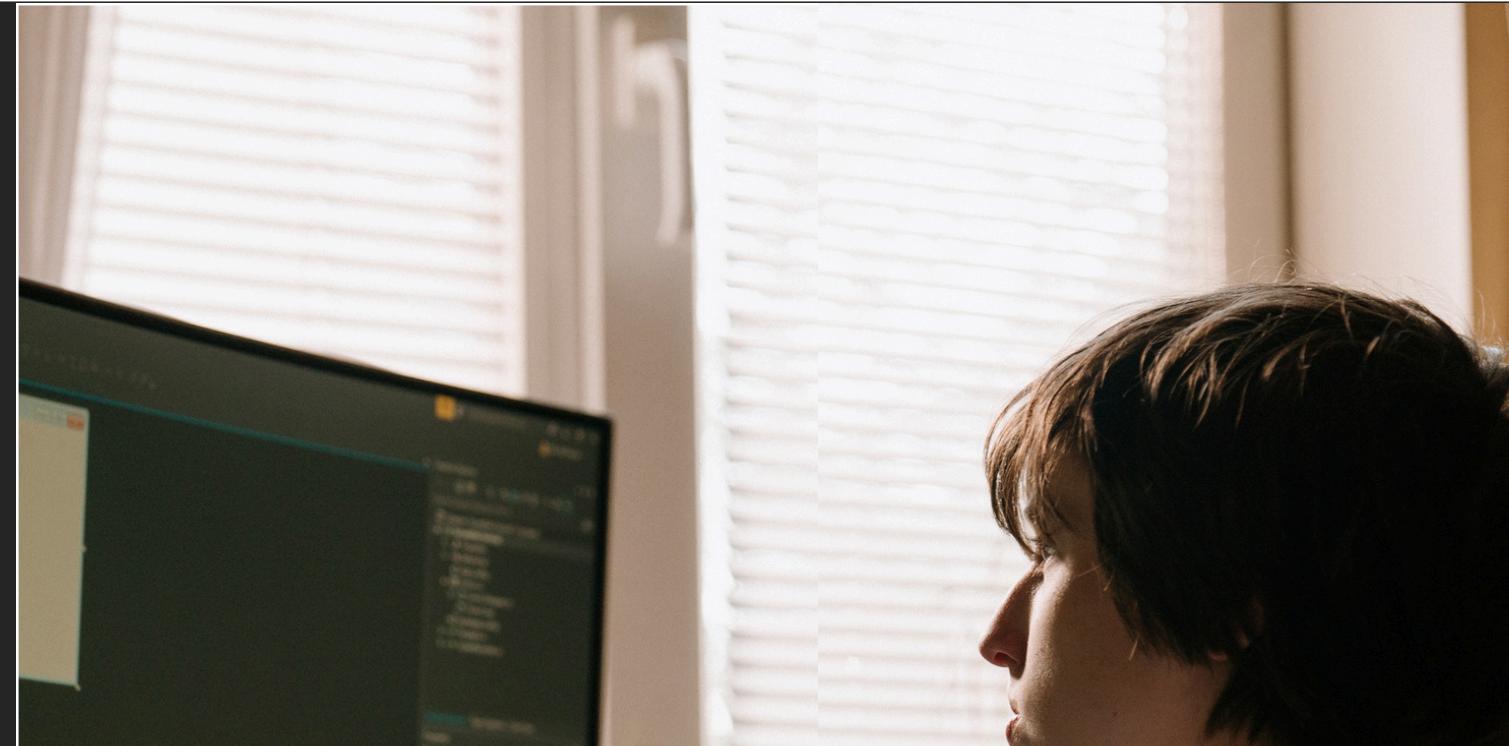
01. Understand the Role of JDBC RowSets
02. Introduce Key Components
03. Demonstrate Practical Usage
04. Highlight Best Practices



03

# The purpose of JDBC

JDBC allows Java applications to interact with databases. RowSets improve upon ResultSet by being more portable and user-friendly, making database interactions smoother.



RETRIEVED FROM:

<https://docs.oracle.com/javase/tutorial/jdbc/overview/index.html#:~:text=JDBC%20helps%20you%20to%20write,in%20answer%20to%20your%20query>

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# How do RowSets improve upon ResultSet?

A better version of ResultSet that is easier to use and works even without a constant database connection.

RETRIEVED FROM:

[oracle.com/javase/tutorial/jdbc/overview/index.html#:~:text=JDBC%20helps%20you%20to%20write,in%20answer%20to%20your%20query](http://oracle.com/javase/tutorial/jdbc/overview/index.html#:~:text=JDBC%20helps%20you%20to%20write,in%20answer%20to%20your%20query)

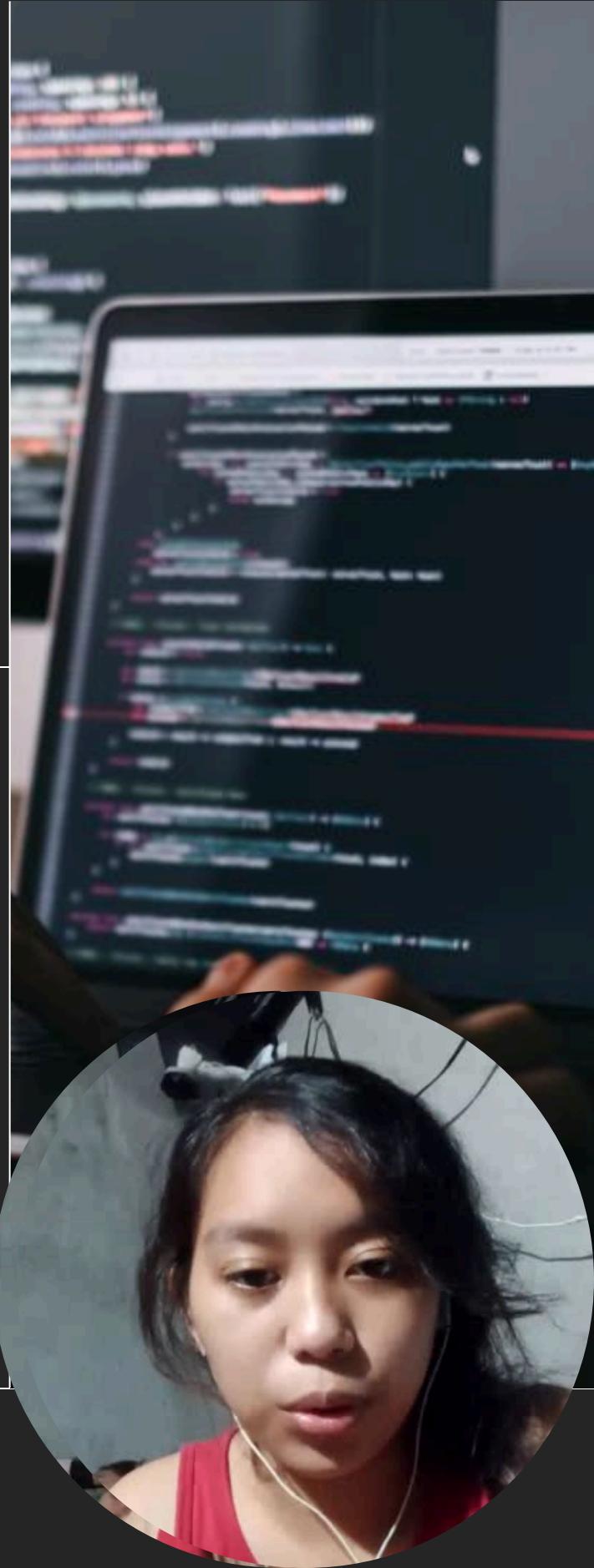
# The role of the RowSetProvider in the Java framework

A starting point that helps us create RowSets using a tool called RowSetFactory.



# Why is RowSetProvider important for creating RowSets?

A helper that creates different types of RowSets, like one for live database connections (JdbcRowSet) or another for offline use (CachedRowSet).



# The RowSet Interface provide:

## JdbcRowSet

Works directly  
with the  
database.

## WebRowSet

Lets you save or load  
data in XML format.

## CachedRowSet

Lets you work with  
data offline.

## RowSet Interface

Define specific RowSet types for tasks like direct database access (JdbcRowSet), offline data handling (CachedRowSet), and exporting to XML (WebRowSet).





# Advantages



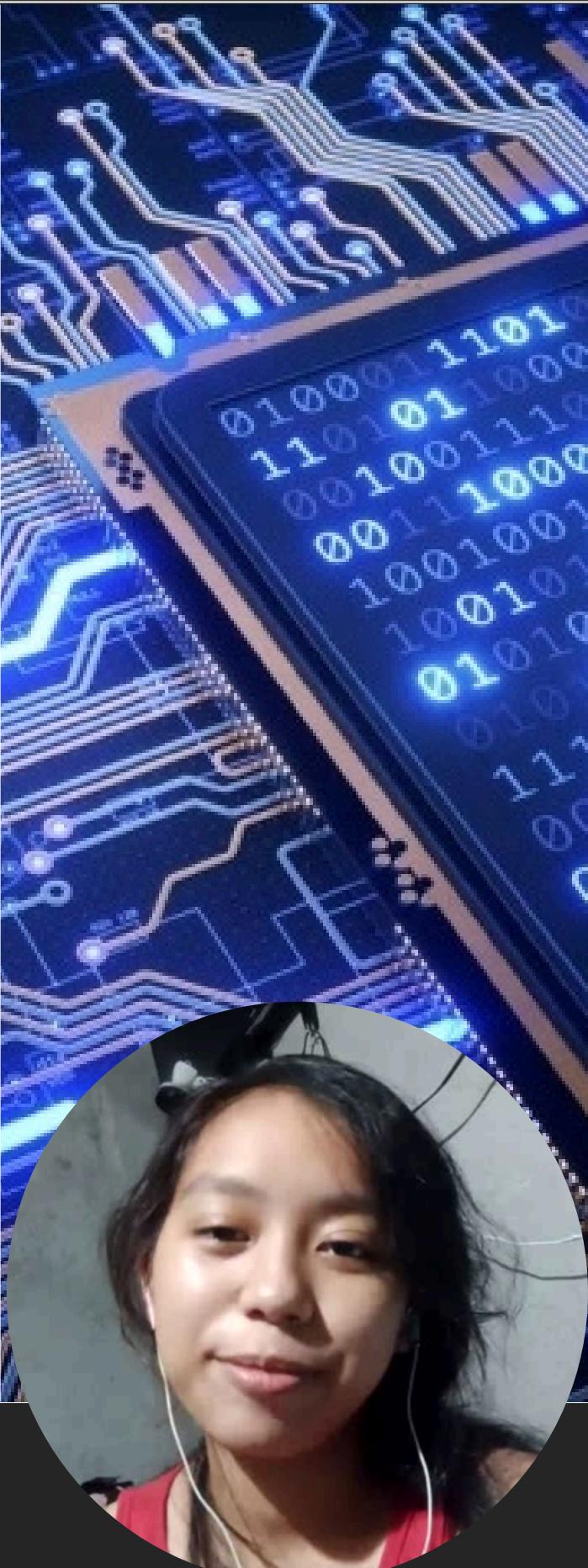
Let's Take a Break 15 Minutes!



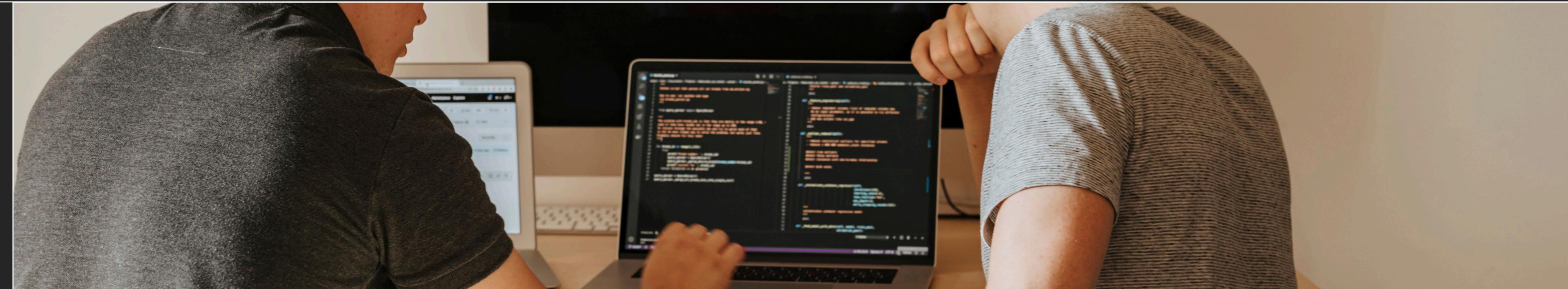
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RowSets are easy to use,  
portable between databases,  
and can work without being  
connected all the time.



# Disadvantage

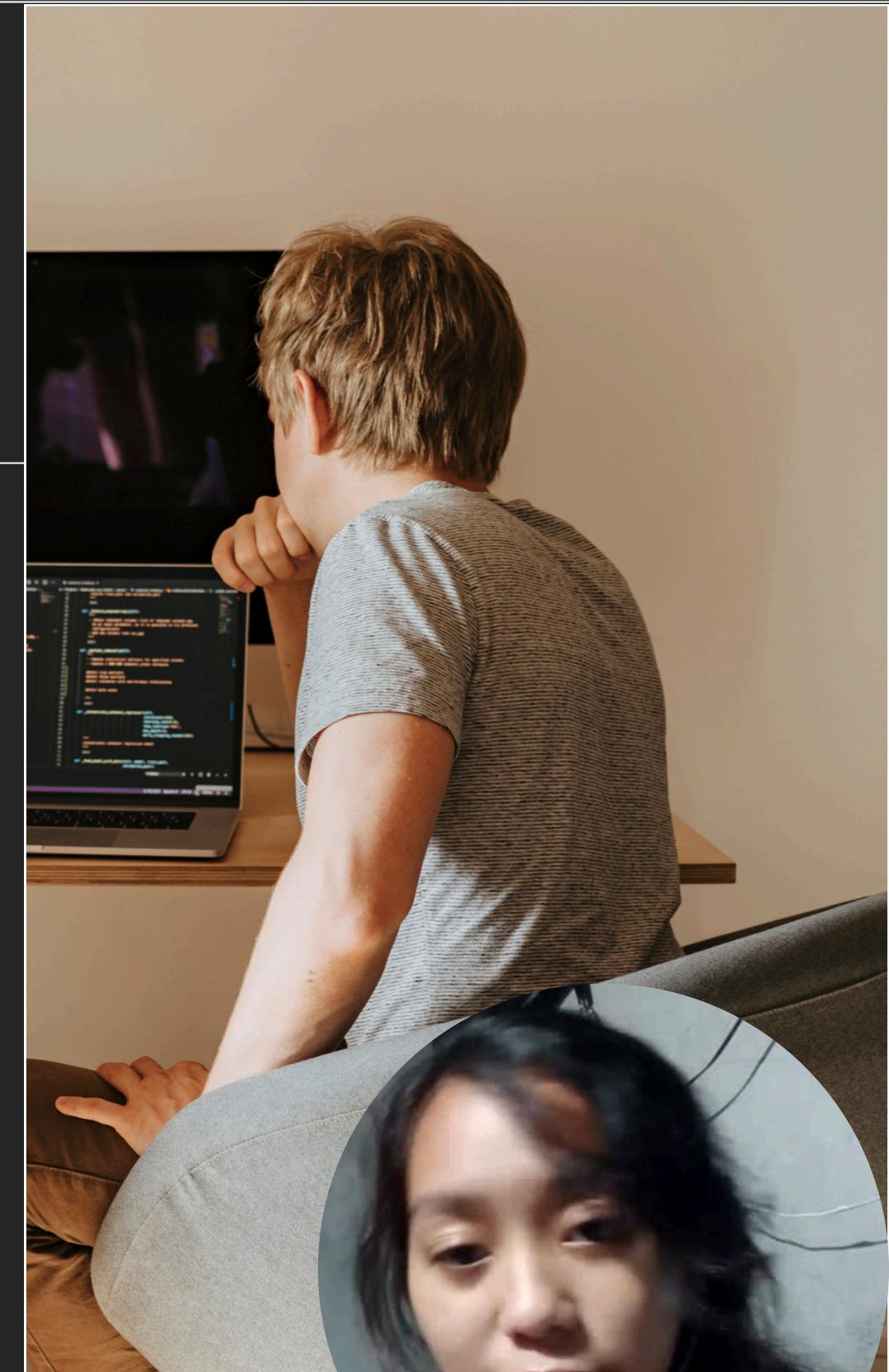


They use more memory and are not good for handling very large amounts of data.



# TIPS FOR USING IT:

Always close RowSets after using them, and pick the right type for what you need to do.



RETRIEVED FROM:

[https://docs.oracle.com/cd/E28280\\_01/web.1111/e13726/rowsets.htm#:~:text=After%20you%20begin%20modifying%20a%20row%20with%20update%20methods,%2C%20you%20must%20complete&text=If%20you%20do%20not%20plan%20to%20use,should%20close%20it%20with%20the%20close\(\)%20method](https://docs.oracle.com/cd/E28280_01/web.1111/e13726/rowsets.htm#:~:text=After%20you%20begin%20modifying%20a%20row%20with%20update%20methods,%2C%20you%20must%20complete&text=If%20you%20do%20not%20plan%20to%20use,should%20close%20it%20with%20the%20close()%20method)

```
1 import javax.sql.rowset.*;
2 import java.sql.*;
3
4 public class RowSetExample {
5     public static void main(String[] args) throws Exception {
6         // Gumawa ng RowSet gamit ang RowServiceProvider
7         RowSetFactory factory = RowServiceProvider.newFactory();
8         JdbcRowSet jdbcRowSet = factory.createJdbcRowSet();
9
10        // I-set up ang koneksyon sa database
11        jdbcRowSet.setUrl("jdbc:mysql://localhost:3306/mydb");
12        jdbcRowSet.setUsername("root");
13        jdbcRowSet.setPassword("password");
14
15        // Magpatakbo ng SQL query
16        jdbcRowSet.setCommand("SELECT * FROM students");
17        jdbcRowSet.execute();
18
19        // Ipakita ang resulta
20        while (jdbcRowSet.next0) {
21            System.out.println("Name: " + jdbcRowSet.getString("name"));
22        }
23
24        // Isara ang RowSet
25        jdbcRowSet.close0;
26    }
27}
28}
```

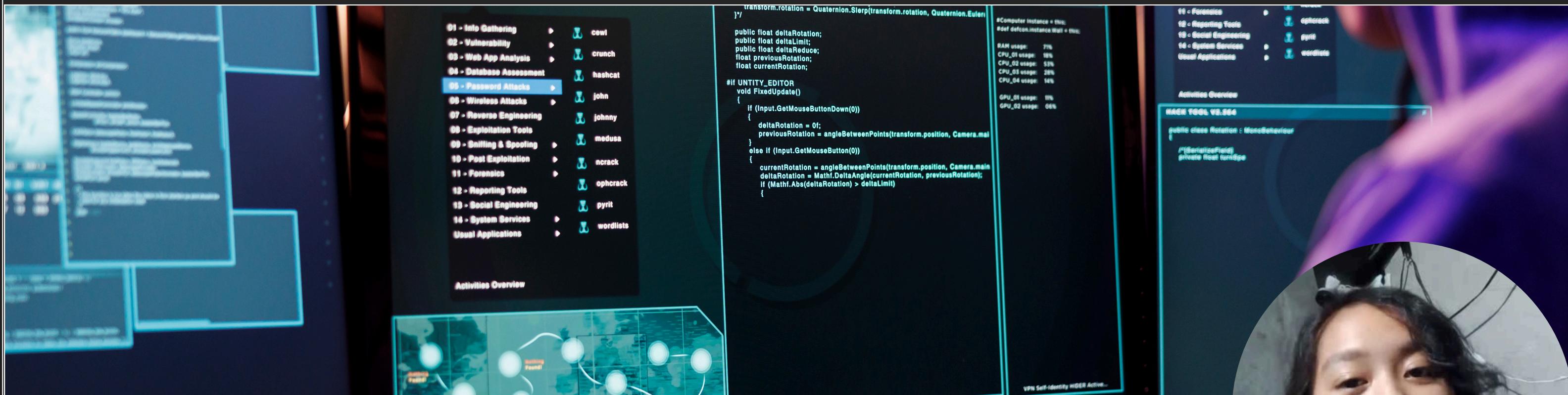




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# Thankyou



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