Nama: Mochammad Khalish Mulyadi

NPM: 14118187

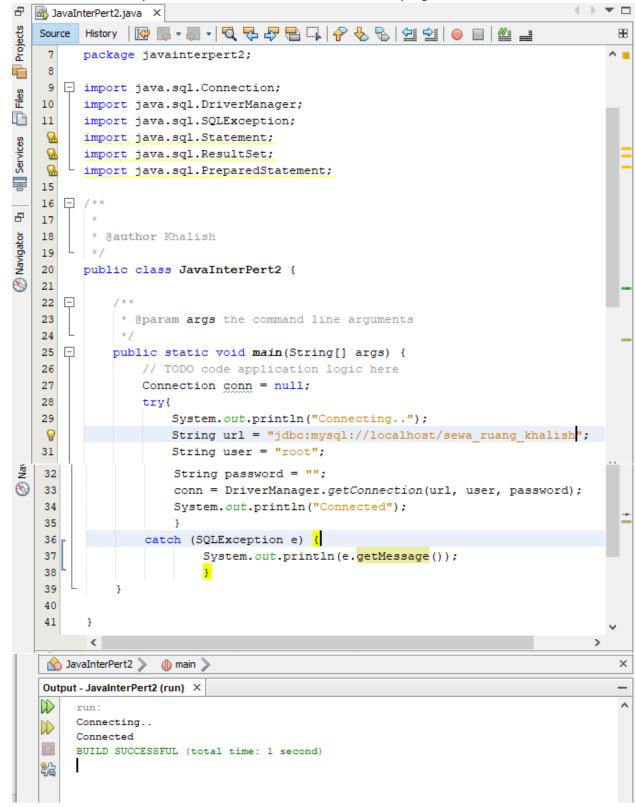
Kelas: 3KA01

ACT 2 Java for Intermediate

1. Membuat database dan tabel

```
XAMPP for Windows - mysql -u root
Khalish@ATTRIXIASDEVICE c:\xampp
# mysql -u root
Welcome to the MariaDB monitor. Commands end with ; or \g.
Your MariaDB connection id is 108
Server version: 10.4.14-MariaDB mariadb.org binary distribution
Copyright (c) 2000, 2018, Oracle, MariaDB Corporation Ab and others.
Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.
MariaDB [(none)]> CREATE DATABASE sewa ruang khalish;
Query OK, 1 row affected (0.003 sec)
MariaDB [(none)]> USE sewa_ruang_khalish;
Database changed
MariaDB [sewa_ruang_khalish]> CREATE TABLE ruangan(
   -> id_ruang int(5) PRIMARY KEY,
    -> jenis_ruang VARCHAR(10) NOT NULL);
Query OK, 0 rows affected (0.292 sec)
MariaDB [sewa ruang khalish]> DESC ruangan;
| Field | Type
                       | Null | Key | Default | Extra |
| id_ruang | int(5) | NO
                                  | PRI | NULL
| jenis_ruang | varchar(10) | NO
2 rows in set (0.029 sec)
MariaDB [sewa ruang khalish]> ALTER TABLE ruangan ADD harga sewa FLOAT(5);
Query OK, 0 rows affected (0.133 sec)
Records: 0 Duplicates: 0 Warnings: 0
MariaDB [sewa ruang khalish]> DESC ruangan;
Field
                           | Null | Key | Default | Extra |
              Type
             | int(5) | NO
id_ruang
                                    PRI
                                         NULL
 jenis_ruang | varchar(10) | NO
                                         NULL
 harga_sewa | float
                           I YES
                                         NULL
3 rows in set (0.005 sec)
MariaDB [sewa ruang khalish]>
```

2. Test koneksi. Disini saya mencoba untuk tes koneksi ke database yang telah dibuat



3. Membuat DML(Data Manipulation Language) Disini saya menggunakan query dml yaitu insert into untuk memasukkan data ke dalam database melalui java.

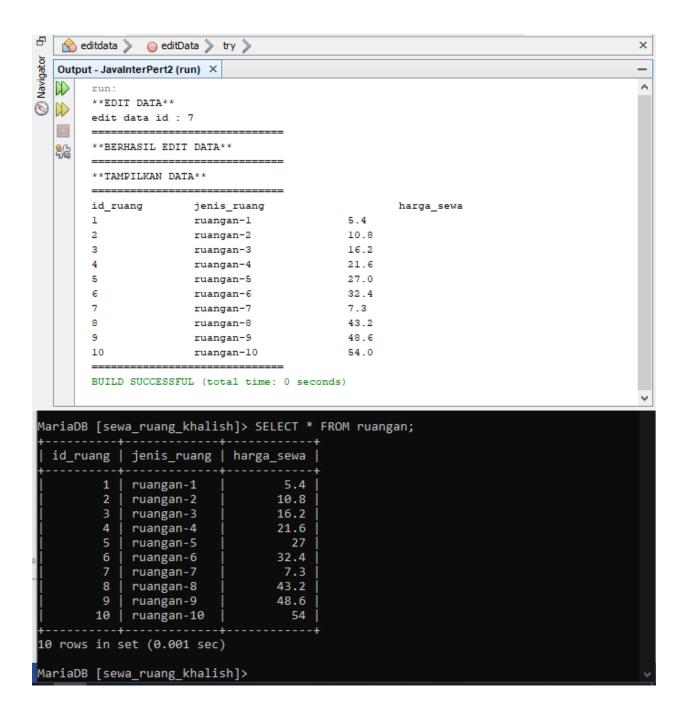
```
Projects
   Source History | 🔀 🖫 → 💹 → | 🔾 🔁 👺 🖶 🗔 | 🔗 😓 | 💇 💇 | 🥚 🔲 | 👑 🚅
                                                                                 ÷
    7
         package javainterpert2;
                                                                                A |
    8
    9 - import java.sql.Connection;
   10
         import java.sql.DriverManager;
import java.sql.SQLException;
   11
   12
         import java.sql.Statement;
Services
   13
         import java.sql.ResultSet;
       import java.sql.PreparedStatement;
   14
暴
   15
   16
8
   17 - /**
   18
   19
          * @author Khalish
   20
   21
   22
         public class insertdata {
   23
             Connection conn = null;
   24
             String url = "jdbc:mysql://localhost/sewa ruang khalish";
   25
             String user = "root";
    26
             String password = "";
   27
             Statement st = null;
    28
             ResultSet rs = null;
    29
             PreparedStatement pst = null;
          <
```

```
Source History | 👺 🖫 → 💹 → | 🔾 🐶 😓 🖫 | 🖓 😓 | 🖓 🔩 🖭 | 🍥 🔲 | 🕮 🚅
                                                                               ÷
             public static void main(String[] args) {
中
   32
                 insertdata app = new insertdata();
   33
   34
                 app.masukanData();
35
                 app.showData(); }
   36 -
             public void masukanData() {
Services
                 System.out.println("**MASUKKAN DATA**");
   37
   38
                 try {
幂
   39
                    conn = DriverManager.getConnection(url, user, password);
                    String query = "INSERT INTO ruangan(id ruang, jenis ruang, ha
   40
8
   41
                    pst = conn.prepareStatement(query);
                    for (int i = 1; i <= 10; i++) {
   42
Navigator
   43
                        pst.setInt(1, i);
   44
                        pst.setString(2, "ruangan-" + i);
   45
                        pst.setFloat(3, new Float(5.4 * i));
   46
                        pst.executeUpdate(); }
   47
                    System.out.println("=======
                    System.out.println("**BERHASIL MASUKKAN DATA**");
   48
   49
                 } catch (SQLException e) { System.out.println(e.getMessage());
   50
                 } finally {
   51
                 System.out.println("======");
   Projects
         History | 👺 🖫 + 💹 + | 🔩 😓 😓 | 🚭 🚭 | 🎱 😅 | 🥚 🔲 | 🕮 🚅
   Source
   53
6
   54
                    if (pst != null) { pst.close(); }
   55
                    if (conn != null) { conn.close(); }
   56
                 } catch (SQLException e) { System.out.println(e.getMessage());
57
Services
   58
   59 =
             public void showData() {
   60
                System.out.println("**TAMPILKAN DATA**");
   61
                System.out.println("======");
                System.out.println("id ruang"+"\t"+"jenis ruang"+"\t"+"\t"+"\t"
   62
8
   63
Navigator
   64
                    conn = DriverManager.getConnection(url, user, password);
   65
                    pst = conn.prepareStatement("SELECT * FROM ruangan");
   66
                    rs = pst.executeQuery();
   67
                    while (rs.next()) {
   68
                        System.out.print(rs.getInt("id ruang"));
                        System.out.print("\t"+"\t");
   69
   70
                        System.out.print(rs.getString("jenis ruang"));
   71
                        System.out.print("\t"+"\t");
   72
                        System.out.println(rs.getFloat("harga sewa")); }
   73
                 } catch (SQLException e) { System.out.println(e.getMessage());
   74
                 } finally {
                    System.out.println("=======");
```

```
Navigator 🔊
                        try {
    77
                            if (rs != null) { rs.close();}
    78
                            if (pst != null) { pst.close(); }
    79
                            if (conn != null) { conn.close(); }
    80
                        } catch (SQLException e) { System.out.println(e.getMessage(
    81
    82
    83
    84
    85
   🚫 insertdata 📎 💾 user 📎
   Output - JavaInterPert2 (run) X
8
   \square
        mun :
Navigator (%)
        **MASUKKAN DATA**
   **BERHASIL MASUKKAN DATA**
        **TAMPILKAN DATA**
        id ruang
                     jenis_ruang
                                                     harga_sewa
                       ruangan-1
                                              5.4
        2
                       ruangan-2
                                             10.8
        3
                      ruangan-3
                                             16.2
        4
                       ruangan-4
                                              21.6
                                             27.0
        5
                       ruangan-5
        6
                       ruangan-6
                                             32.4
        7
                                              37.8
                       ruangan-7
        8
                                              43.2
                       ruangan-8
        9
                                             48.6
                      ruangan-9
        10
                                             54.0
                       ruangan-10
        BUILD SUCCESSFUL (total time: 1 second)
        ı
 MariaDB [sewa_ruang_khalish]> SELECT * FROM ruangan;
  id_ruang | jenis_ruang | harga_sewa |
                                   5.4
         1 | ruangan-1
                                   10.8
             ruangan-2
              ruangan-3
                                   16.2
          4
                                   21.6
            ruangan-4
             ruangan-5
                                    27
         6
                                   32.4
              ruangan-6
              ruangan-7
                                   37.8
         8
              ruangan-8
                                   43.2
         9
              ruangan-9
                                   48.6
         10
                                    54
             ruangan-10
10 rows in set (0.001 sec)
MariaDB [sewa_ruang_khalish]>
```

4. Edit Data. Disini saya menggunakan query update untuk melakukan update data yang ada pada database dengan menggunakan query UPDATE.

```
☐ JavaInterPert2.java × ☐ insertdata.java × ☐ editdata.java ×
         History | 🕝 🖫 - 🖟 - | 🔩 🖓 🖶 📑 | 谷 😓 | 😉 💇 | 🥚 🔲 | 👑 🚅
   19
          * @author Khalish
   20
         */
   21
         public class editdata {
   22
            Connection conn = null;
23
             String url = "jdbc:mysql://localhost/sewa ruang khalish";
   24
             String user = "root";
   25
             String password = "";
   26
             Statement st = null;
暴
   27
             ResultSet rs = null;
   28
            PreparedStatement pst = null;
8
   29
   30 🖃
             public static void main(String[] args) {
   31
                 editdata app = new editdata();
   32
   33
                 app.editData(7);
   34
                 app.showData(); }
      35
             public void editData(int id) {
                 System.out.println("**EDIT DATA**");
   36
                 System.out.println("edit data id : 7" );
   37
   38
   39
                     conn = DriverManager.getConnection(url, user, password);
                     String query = "UPDATE ruangan SET harga_sewa=? WHERE id_ru
    Q
   41
                     pst = conn.prepareStatement(query);
   42
                     pst.setFloat(1, new Float(5.4));
   43
                     pst.executeUpdate();
   44
                     System.out.println("======");
                     System.out.println("**BERHASIL EDIT DATA**");
   45
   46
   47
                 } catch (SQLException e) {
룷
   48
                     System.out.println(e.getMessage());
   49
                 } finally {
8
   50
                     System.out.println("======");
   51
                     try {
   52
                         if (pst != null) { pst.close(); }
   53
                         if (conn != null) { conn.close(); }
   54
                     } catch (SQLException e) { System.out.println(e.getMessage(
   55
   56
```



5. Menghapus data. Disini saya mengahapus data dari dalam tabel yaitu denga id_ruang = 10 dengan menggunakan query DELETE.

