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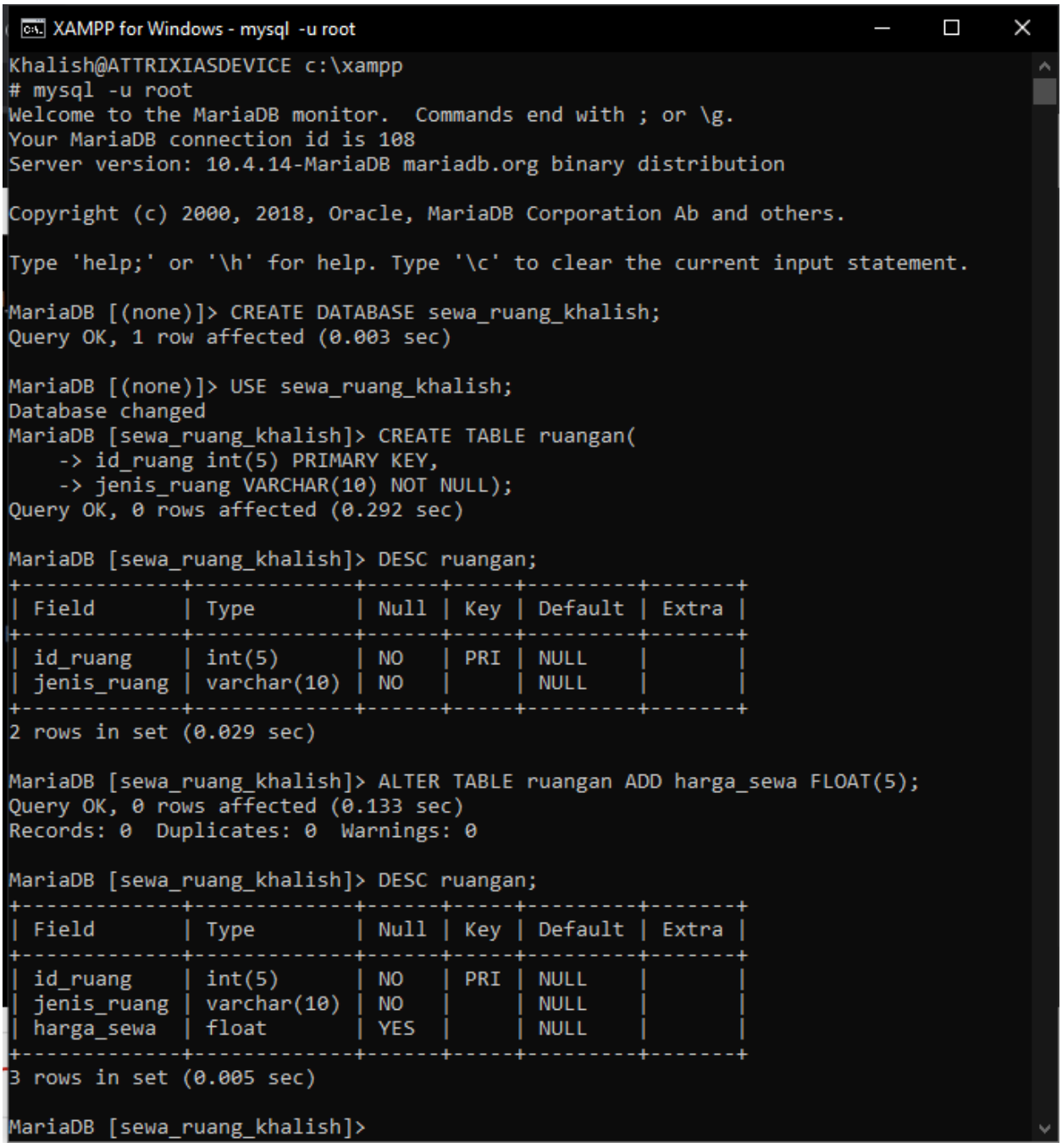
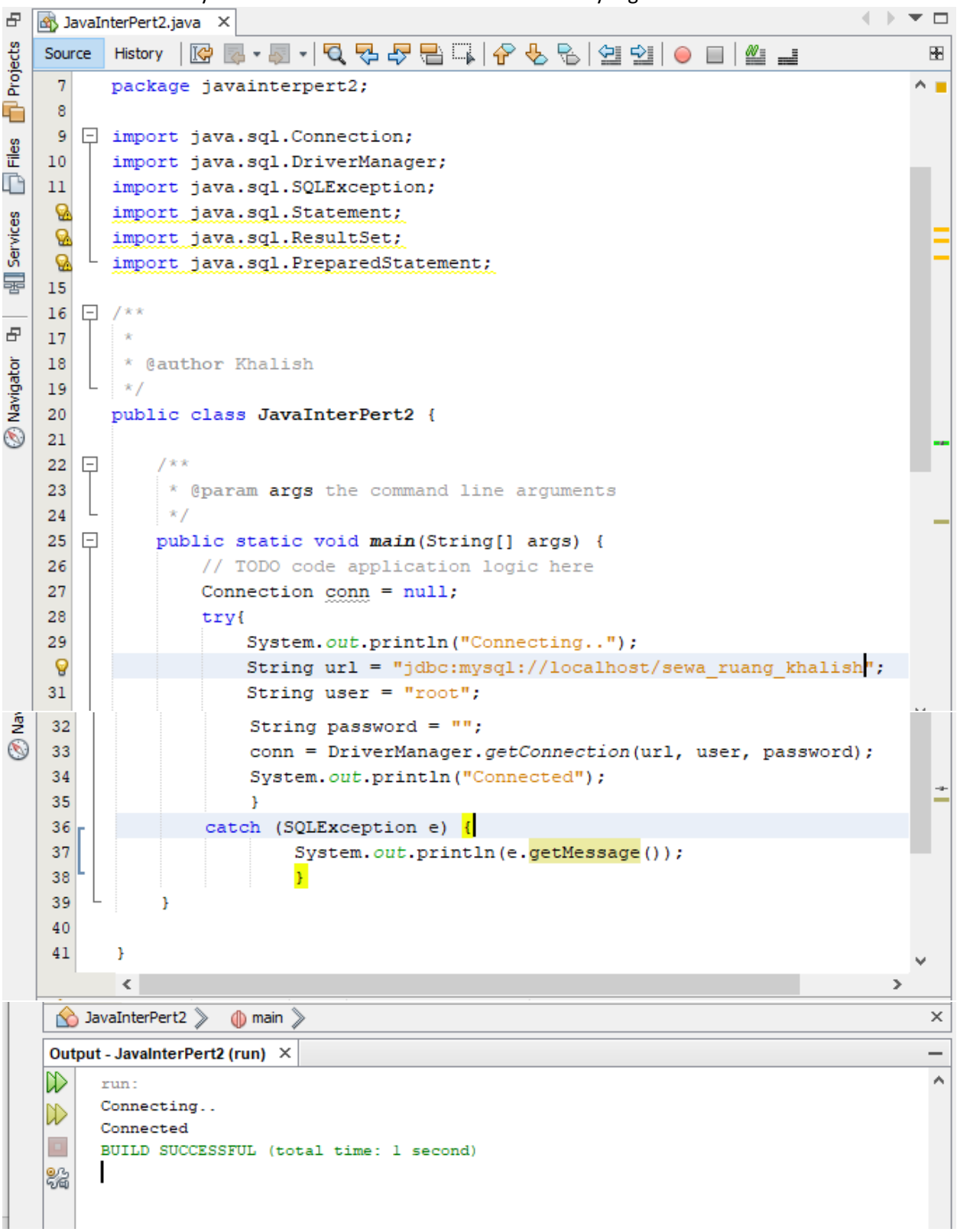
ACT 2 Java for Intermediate

1. Membuat database dan tabel



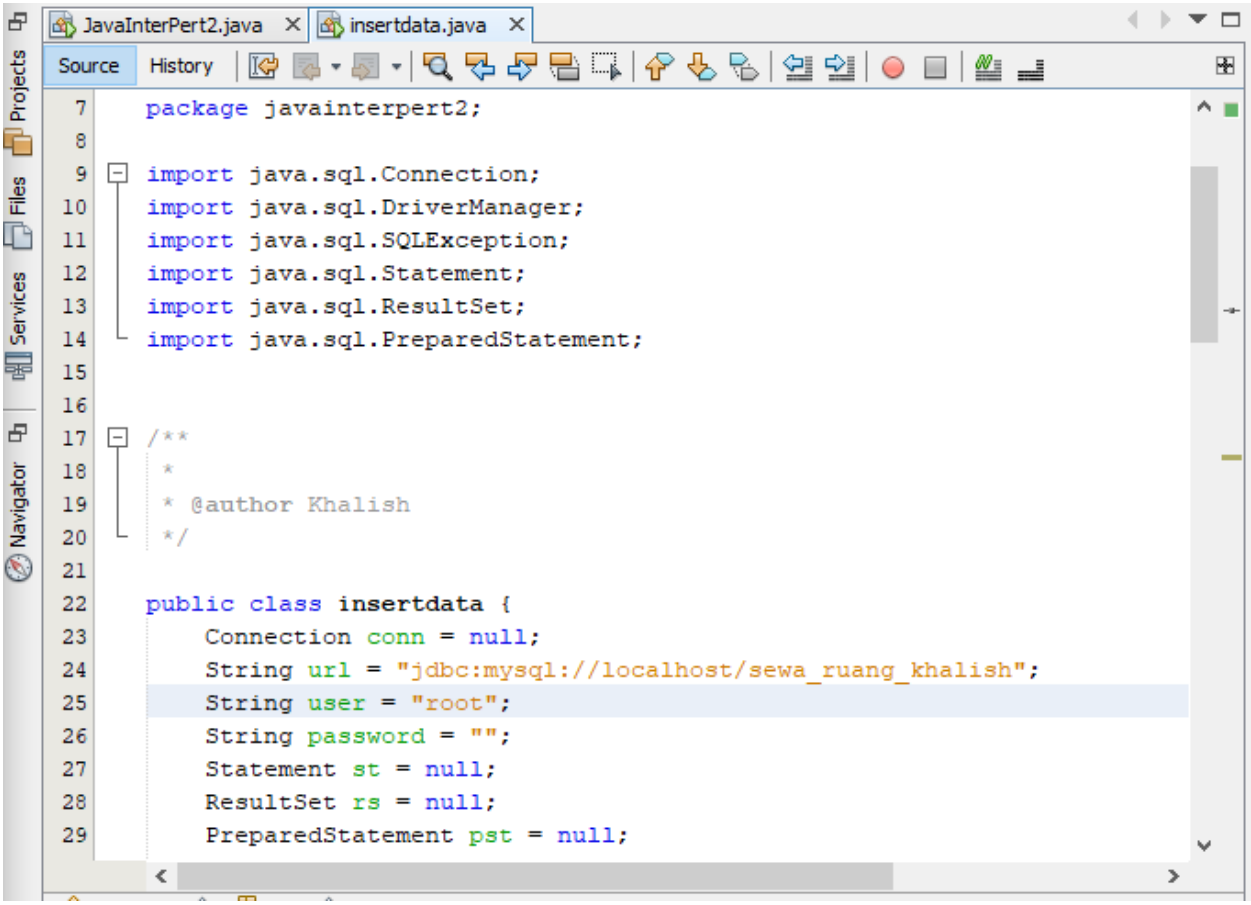
2. Test koneksi. Disini saya mencoba untuk tes koneksi ke database yang telah dibuat

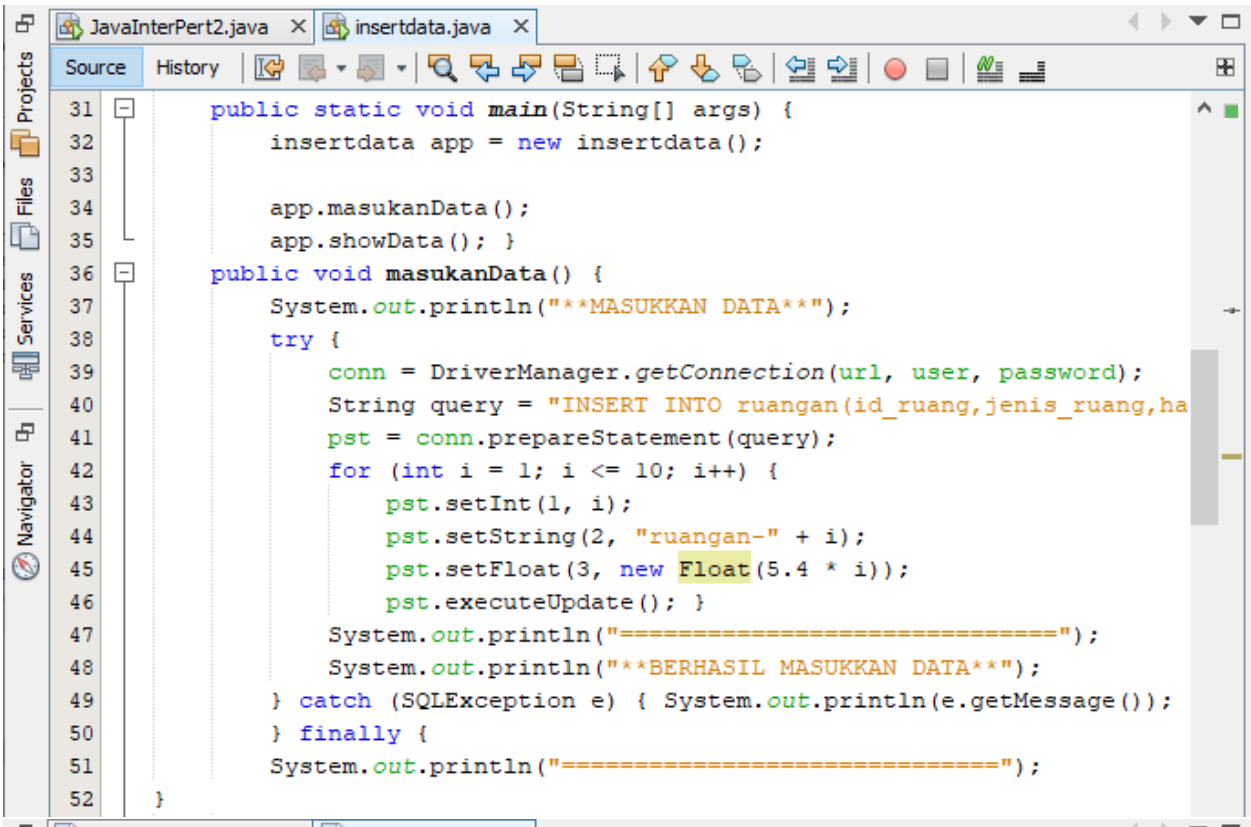


```
package javainterpert2;

import java.sql.Connection;
import java.sql.DriverManager;
import java.sql.SQLException;
import java.sql.Statement;
import java.sql.ResultSet;
import java.sql.PreparedStatement;

/**
 *
 * @author Khalish
 */
public class JavaInterPert2 {

    /**
     * @param args the command line arguments
     */
    public static void main(String[] args) {
        // TODO code application logic here
        Connection conn = null;
        try{
            System.out.println("Connecting..");
            String url = "jdbc:mysql://localhost/sewa_ruang_khalish";
            String user = "root";
            String password = "";
            conn = DriverManager.getConnection(url, user, password);
            System.out.println("Connected");
            }
        catch (SQLException e) {
                System.out.println(e.getMessage());
                }
    }

}
```

```
run:
Connecting..
Connected
BUILD SUCCESSFUL (total time: 1 second)
```

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

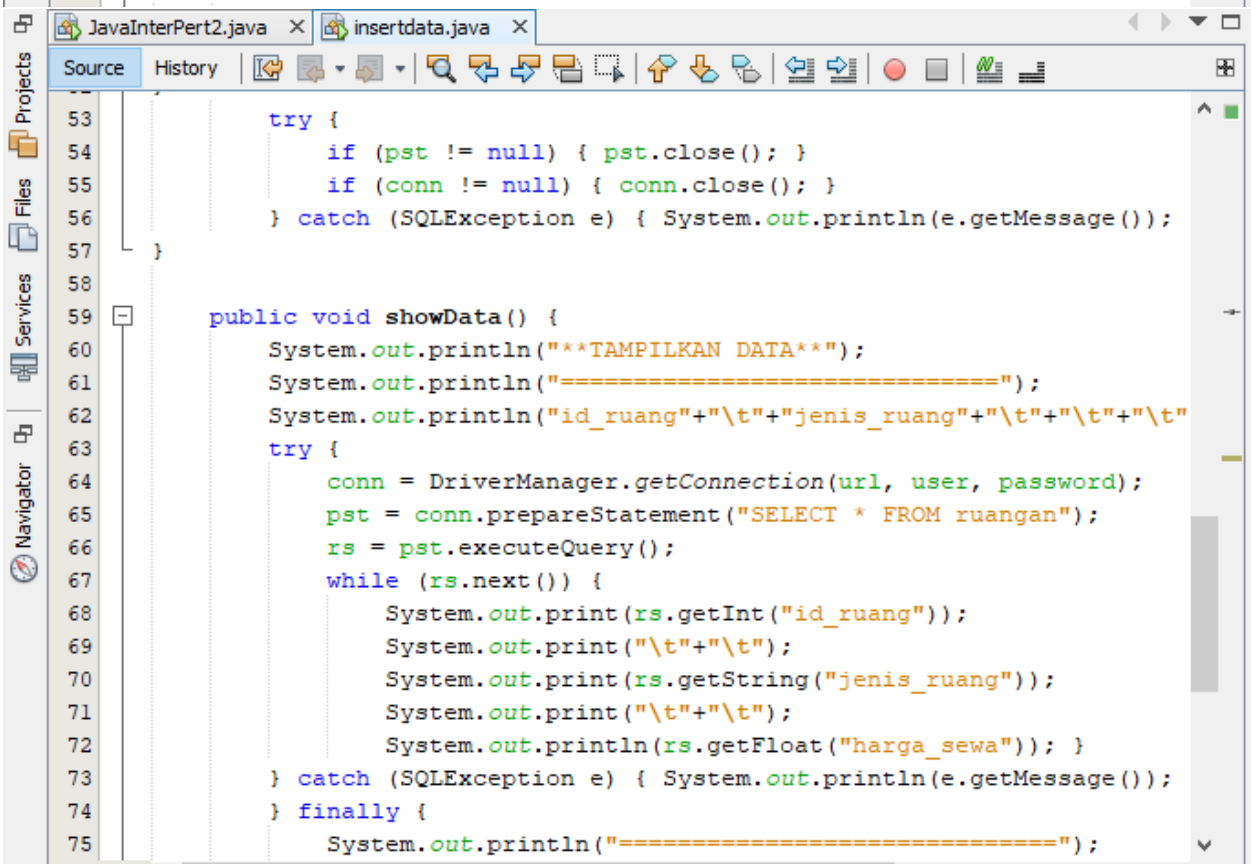




JavaInterPert2.java | insertdata.java

Source | History

```
31      public static void main(String[] args) {
32          insertdata app = new insertdata();
33
34          app.masukanData();
35          app.showData(); }
36      public void masukanData() {
37          System.out.println("**MASUKKAN DATA**");
38          try {
39              conn = DriverManager.getConnection(url, user, password);
40              String query = "INSERT INTO ruangan(id_ruang,jenis_ruang,ha
41              pst = conn.prepareStatement(query);
42              for (int i = 1; i <= 10; i++) {
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("==============================");
48              System.out.println("**BERHASIL MASUKKAN DATA**");
49          } catch (SQLException e) { System.out.println(e.getMessage());
50          } finally {
51          System.out.println("==============================");
52  }
```



JavaInterPert2.java | insertdata.java

Source | History

```
53          try {
54              if (pst != null) { pst.close(); }
55              if (conn != null) { conn.close(); }
56          } catch (SQLException e) { System.out.println(e.getMessage());
57  }
58
59      public void showData() {
60          System.out.println("**TAMPILKAN DATA**");
61          System.out.println("==============================");
62          System.out.println("id_ruang"+"\t"+"jenis_ruang"+"\t"+"\t"+"\t"
63          try {
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"));
69                  System.out.print("\t"+"\t");
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 {
75              System.out.println("==============================");
```

```
76                  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
```

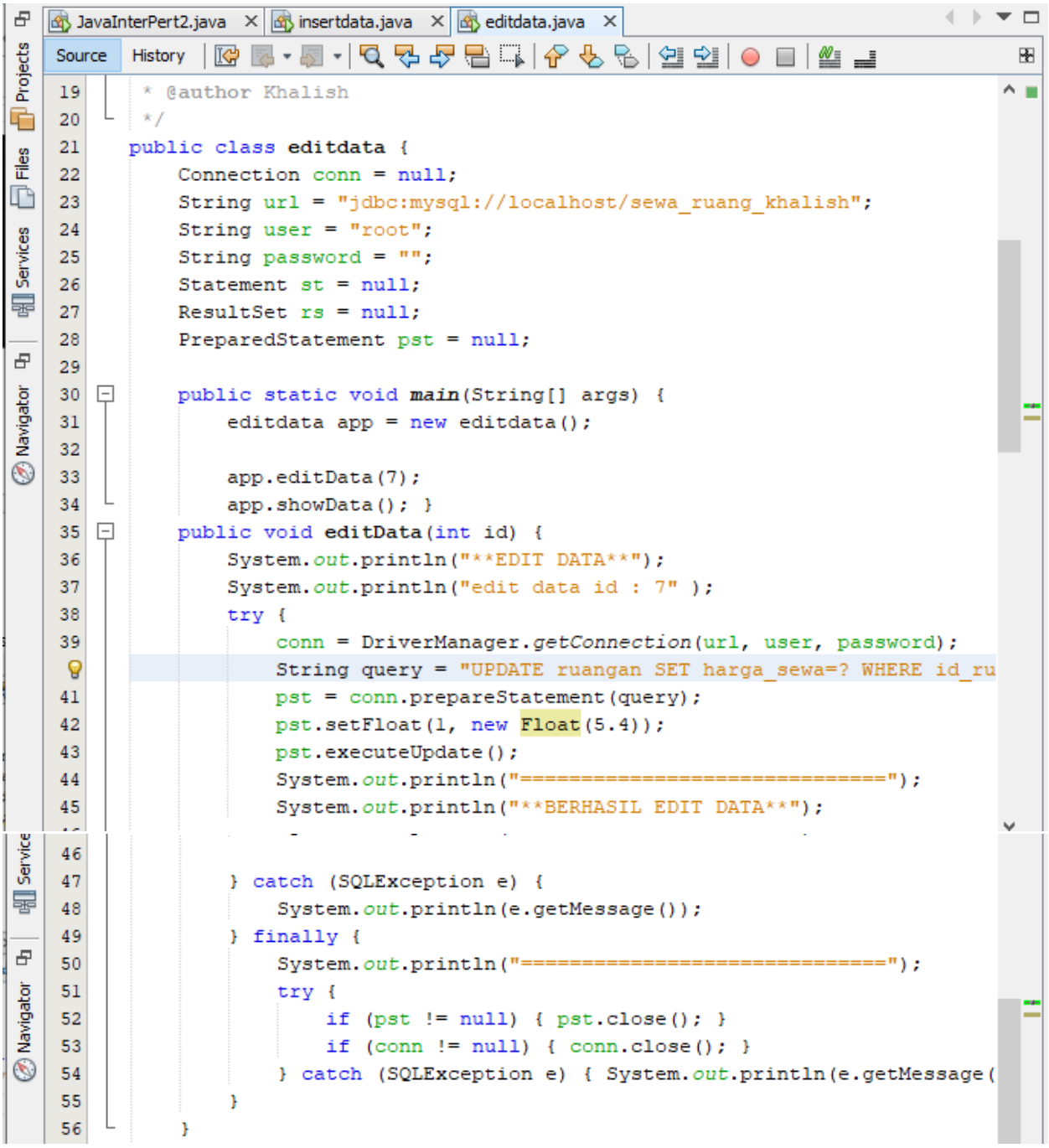
insertdata > user >

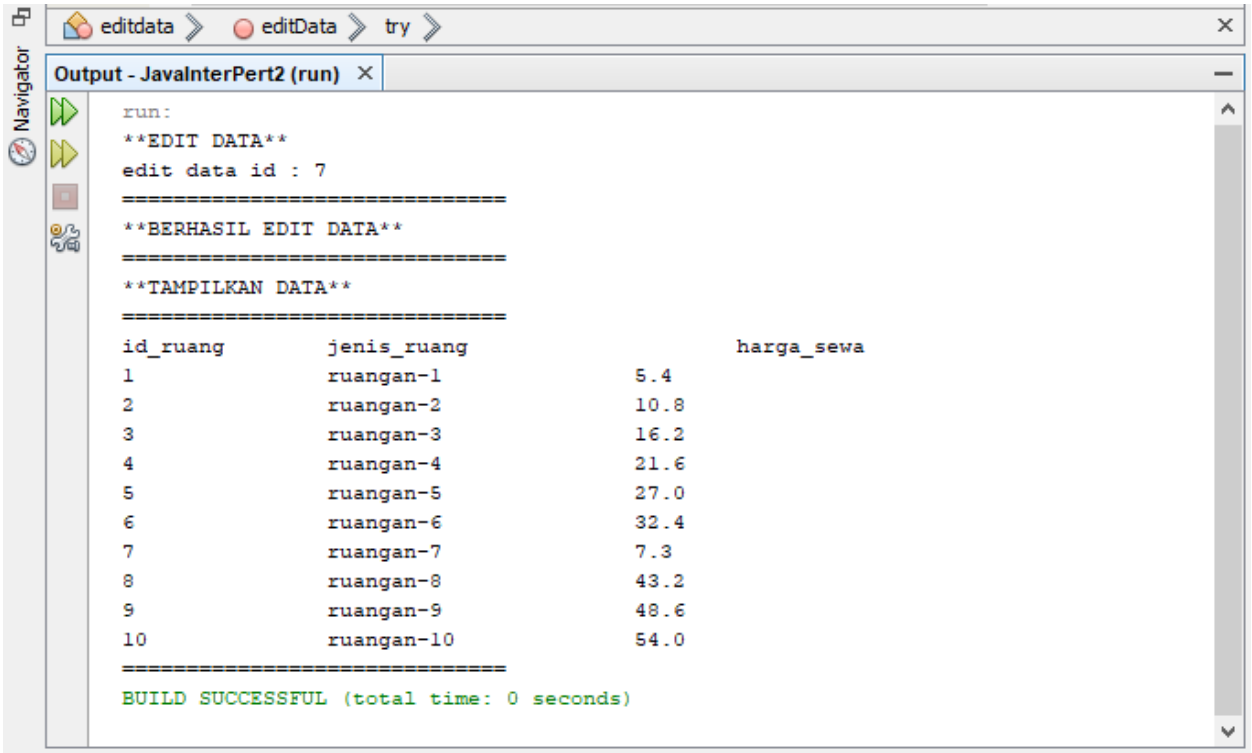
Output - JavaInterPert2 (run)

```
run:
**MASUKKAN DATA**
==============================
**BERHASIL MASUKKAN DATA**
==============================
**TAMPILKAN DATA**
==============================
id_ruang        jenis_ruang                     harga_sewa
1               ruangan-1               5.4
2               ruangan-2               10.8
3               ruangan-3               16.2
4               ruangan-4               21.6
5               ruangan-5               27.0
6               ruangan-6               32.4
7               ruangan-7               37.8
8               ruangan-8               43.2
9               ruangan-9               48.6
10              ruangan-10              54.0
==============================
BUILD SUCCESSFUL (total time: 1 second)
```

```
MariaDB [sewa_ruang_khalish]> SELECT * FROM ruangan;
+----------+-------------+------------+
| id_ruang | jenis_ruang | harga_sewa |
+----------+-------------+------------+
|        1 | ruangan-1   |        5.4 |
|        2 | ruangan-2   |       10.8 |
|        3 | ruangan-3   |       16.2 |
|        4 | ruangan-4   |       21.6 |
|        5 | ruangan-5   |         27 |
|        6 | ruangan-6   |       32.4 |
|        7 | ruangan-7   |       37.8 |
|        8 | ruangan-8   |       43.2 |
|        9 | ruangan-9   |       48.6 |
|       10 | ruangan-10  |         54 |
+----------+-------------+------------+
10 rows in set (0.001 sec)

MariaDB [sewa_ruang_khalish]>
```

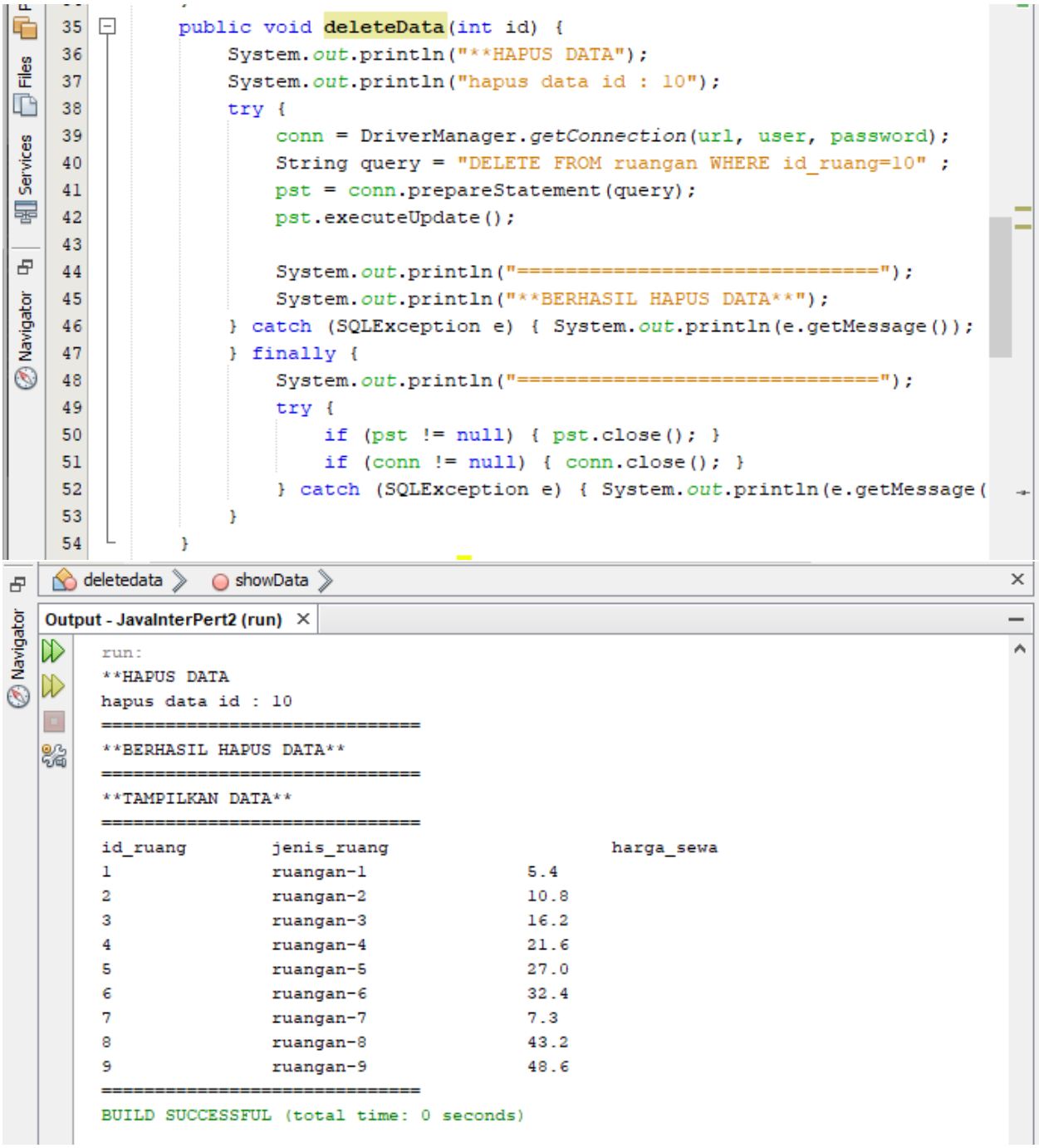
4. Edit Data. Disini saya menggunakan query update untuk melakukan update data yang ada pada database dengan menggunakan query UPDATE.






```
MariaDB [sewa_ruang_khalish]> SELECT * FROM ruangan;
+----------+-------------+-------------+
| id_ruang | jenis_ruang | harga_sewa |
+----------+-------------+-------------+
|        1 | ruangan-1   |         5.4 |
|        2 | ruangan-2   |        10.8 |
|        3 | ruangan-3   |        16.2 |
|        4 | ruangan-4   |        21.6 |
|        5 | ruangan-5   |          27 |
|        6 | ruangan-6   |        32.4 |
|        7 | ruangan-7   |         7.3 |
|        8 | ruangan-8   |        43.2 |
|        9 | ruangan-9   |        48.6 |
|       10 | ruangan-10  |          54 |
+----------+-------------+-------------+
10 rows in set (0.001 sec)

MariaDB [sewa_ruang_khalish]>
```

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



```
35      public void deleteData(int id) {
36          System.out.println("**HAPUS DATA");
37          System.out.println("hapus data id : 10");
38          try {
39              conn = DriverManager.getConnection(url, user, password);
40              String query = "DELETE FROM ruangan WHERE id_ruang=10" ;
41              pst = conn.prepareStatement(query);
42              pst.executeUpdate();
43
44              System.out.println("==============================");
45              System.out.println("**BERHASIL HAPUS DATA**");
46          } catch (SQLException e) { System.out.println(e.getMessage());
47          } finally {
48              System.out.println("==============================");
49              try {
50                  if (pst != null) { pst.close(); }
51                  if (conn != null) { conn.close(); }
52              } catch (SQLException e) { System.out.println(e.getMessage(
53          }
54      }
```

deletedata › showData

Output - JavaInterPert2 (run)

```
run:
**HAPUS DATA
hapus data id : 10
==============================
**BERHASIL HAPUS DATA**
==============================
**TAMPILKAN DATA**
==============================
id_ruang        jenis_ruang                     harga_sewa
1               ruangan-1               5.4
2               ruangan-2               10.8
3               ruangan-3               16.2
4               ruangan-4               21.6
5               ruangan-5               27.0
6               ruangan-6               32.4
7               ruangan-7               7.3
8               ruangan-8               43.2
9               ruangan-9               48.6
==============================
BUILD SUCCESSFUL (total time: 0 seconds)
```

```
MariaDB [sewa_ruang_khalish]> SELECT * FROM ruangan;
+----------+-------------+------------+
| id_ruang | jenis_ruang | harga_sewa |
+----------+-------------+------------+
|        1 | ruangan-1   |        5.4 |
|        2 | ruangan-2   |       10.8 |
|        3 | ruangan-3   |       16.2 |
|        4 | ruangan-4   |       21.6 |
|        5 | ruangan-5   |         27 |
|        6 | ruangan-6   |       32.4 |
|        7 | ruangan-7   |        7.3 |
|        8 | ruangan-8   |       43.2 |
|        9 | ruangan-9   |       48.6 |
+----------+-------------+------------+
9 rows in set (0.001 sec)

MariaDB [sewa_ruang_khalish]>
```