

## Praktikum Sistem Basis Data

### Modul 12

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NIM : L200180002  
Kelas : A

#### Perhotelan

- **Kode Perhotelan**

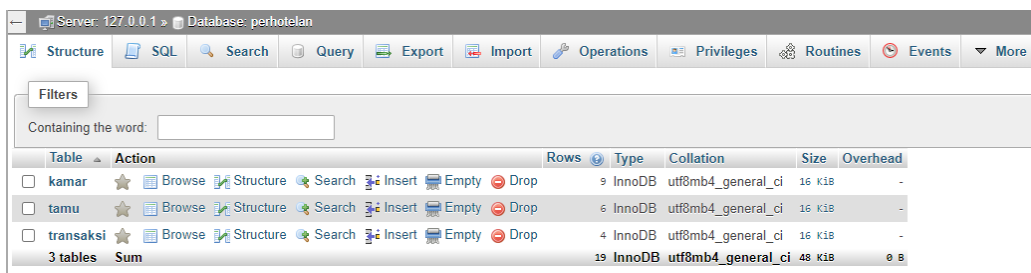
```
package perhotelan;

/**
 *
 * @author ASUS
 */
public class Perhotelan {

    /**
     * @param args the command line arguments
     */
    public static void main(String[] args) {
        // TODO code application logic here
    }

}
```

- **Database**



Server: 127.0.0.1 » Database: perhotelan

Structure SQL Search Query Export Import Operations Privileges Routines Events More

Filters

Containing the word:

Table	Action	Rows	Type	Collation	Size	Overhead
kamar	Browse Structure Search Insert Empty Drop	9	InnoDB	utf8mb4_general_ci	16 KiB	-
tamu	Browse Structure Search Insert Empty Drop	6	InnoDB	utf8mb4_general_ci	16 KiB	-
transaksi	Browse Structure Search Insert Empty Drop	4	InnoDB	utf8mb4_general_ci	16 KiB	-
3 tables	Sum	19	InnoDB	utf8mb4_general_ci	48 KiB	0 B

- **Koneksi**

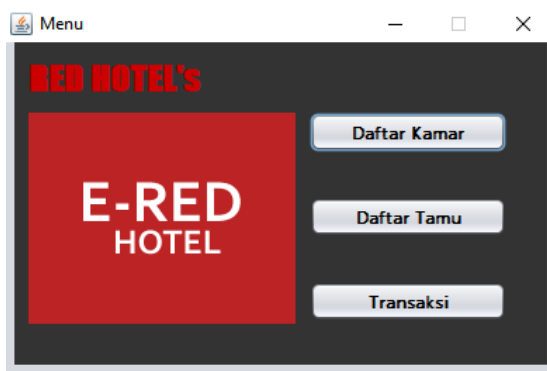
#### Kode Koneksi dengan Database

```
package koneksi;
import java.sql.Connection;
import java.sql.DriverManager;
import java.sql.SQLException;

/**
 *
 * @author ASUS
 */
public class Koneksi {
    public static Connection getConnection() {
        Connection conn = null;
        String url = "jdbc:mysql://localhost/perhotelan";
        String user = "root";
        String password = "";
        try {
            conn = DriverManager.getConnection(url, user, password);
        } catch (SQLException e) {
            System.out.println(e);
        }
        return conn;
    }

    public static void main(String[] args) {
        try {
            Connection c = Koneksi.getConnection();
            System.out.println(String.format("Connected to database %s " + "successfully.", c.getCatalog()));
        } catch (SQLException e) {
            System.out.println(e);
        }
    }
}
```

- **Menu**



Kode untuk button Daftar Kamar, Daftar Tamu, Transaksi :

```
private void jButtonKamarActionPerformed(java.awt.event.ActionEvent evt) {
    // TODO add your handling code here:
    new Kamar().setVisible(true);
    new Kamar().setDefaultCloseOperation(new Kamar().DISPOSE_ON_CLOSE);
    this.setVisible(false);
}

private void jButtonTamuActionPerformed(java.awt.event.ActionEvent evt) {
    // TODO add your handling code here:
    new Tamu().setVisible(true);
    new Tamu().setDefaultCloseOperation(new Tamu().DISPOSE_ON_CLOSE);
    this.setVisible(false);
}

private void jButtonTransaksiActionPerformed(java.awt.event.ActionEvent evt) {
    // TODO add your handling code here:
    new Transaksi().setVisible(true);
    new Transaksi().setDefaultCloseOperation(new Transaksi().DISPOSE_ON_CLOSE);
    this.setVisible(false);
}
```

- **Kamar**

Nomor Kamar	Jenis Kamar	Price
101	VIP SB	10.000.000
102	VIP DB	12.000.000
201	VVIP SB	15.000.000
202	VVIP DB	18.000.000
301	Deluxe SB	11.000.000
302	Deluxe DB	14.000.000
401	Standar SD	7.000.000
402	Standar DB	8.000.000

## Menyimpan Data

**Data Kamar**

**RED HOTEL'S**

**KAMAR.**

HOME

Nomor Kamar: 501 **SAVE** **Update**

Jenis Kamar: Luxury **DELETE**

Price /Malam: 20.000.000

Nomor Kamar	Jenis Kamar	Price
101	VIP SB	10.000.000
102	VIP DB	12.000.000
201	VVIP SB	15.000.000
202	VVIP DB	18.000.000
301	Deluxe SB	11.000.000
302	Deluxe DB	14.000.000
401	Standar SD	7.000.000
402	Standar DB	8.000.000

Message

**i** Data berhasil diSave

OK

Hasil

**Data Kamar**

**RED HOTEL'S**

**KAMAR.**

HOME

Nomor Kamar:  **SAVE** **Update**

Jenis Kamar:  **DELETE**

Price /Malam:

Nomor Kamar	Jenis Kamar	Price
101	VIP SB	10.000.000
102	VIP DB	12.000.000
201	VVIP SB	15.000.000
202	VVIP DB	18.000.000
301	Deluxe SB	11.000.000
302	Deluxe DB	14.000.000
401	Standar SD	7.000.000
402	Standar DB	8.000.000
501	Luxury	20.000.000

Kode menyimpan Data Kamar:

```
private void buttonSimpanActionPerformed(java.awt.event.ActionEvent evt) {  
    // TODO add your handling code here:  
    try{  
        String sql = "INSERT INTO kamar VALUES ('"+inputNomor.getText()+"','"+inputJenis.getText()+"  
        "','"+inputPrice.getText()+"')";  
        java.sql.Connection conn = (Connection)Koneksi.getConnection();  
        java.sql.PreparedStatement pstmt = conn.prepareStatement(sql);  
        pstmt.execute();  
        JOptionPane.showMessageDialog(null, "Data berhasil diSave");  
        TampilData();  
        kosongkan_form();  
    }catch(SQLException e){  
        JOptionPane.showMessageDialog(this, e.getMessage());  
    }  
}
```

## Update data Kamar

**RED HOTEL'S** **KAMAR.** HOME

Nomor Kamar:  SAVE Update

Jenis Kamar:  DELETE

Price /Malam:

Nomor Kamar	Jenis Kamar	Price
101	VIP SB	10.000.000
102	VIP DB	12.000.000
201	VVIP SB	15.000.000
202	VVIP DB	
301	Deluxe SB	
302	Deluxe DB	
401	Standar SD	
402	Standar DB	
501	Luxury	

Message

Data berhasil diEdit

OK

Hasil

**RED HOTEL'S** **KAMAR.** HOME

Nomor Kamar:  SAVE Update

Jenis Kamar:  DELETE

Price /Malam:

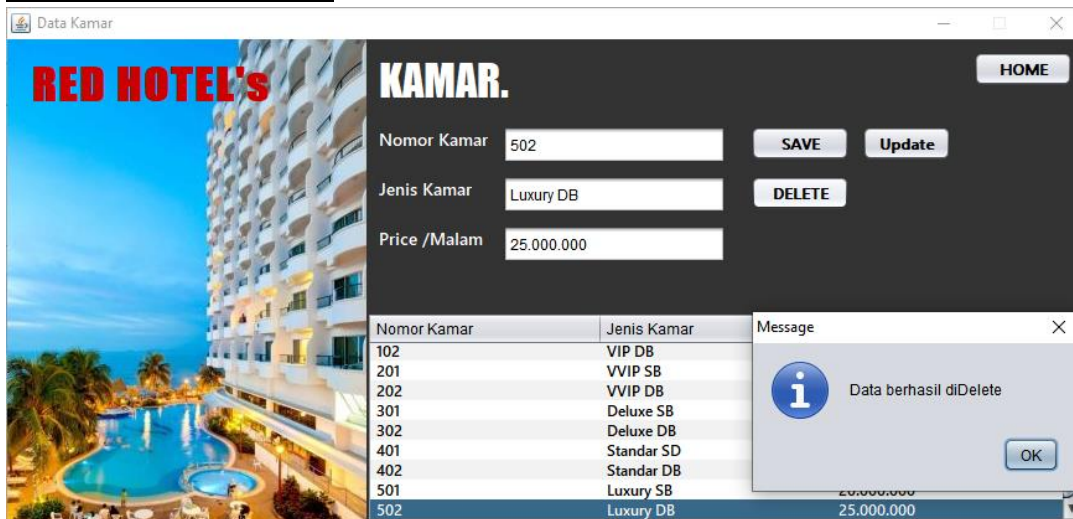
Nomor Kamar	Jenis Kamar	Price
101	VIP SB	10.000.000
102	VIP DB	12.000.000
201	VVIP SB	15.000.000
202	VVIP DB	18.000.000
301	Deluxe SB	11.000.000
302	Deluxe DB	14.000.000
401	Standar SD	7.000.000
402	Standar DB	8.000.000
501	Luxury SB	20.000.000

Kode mengupdate data kamar

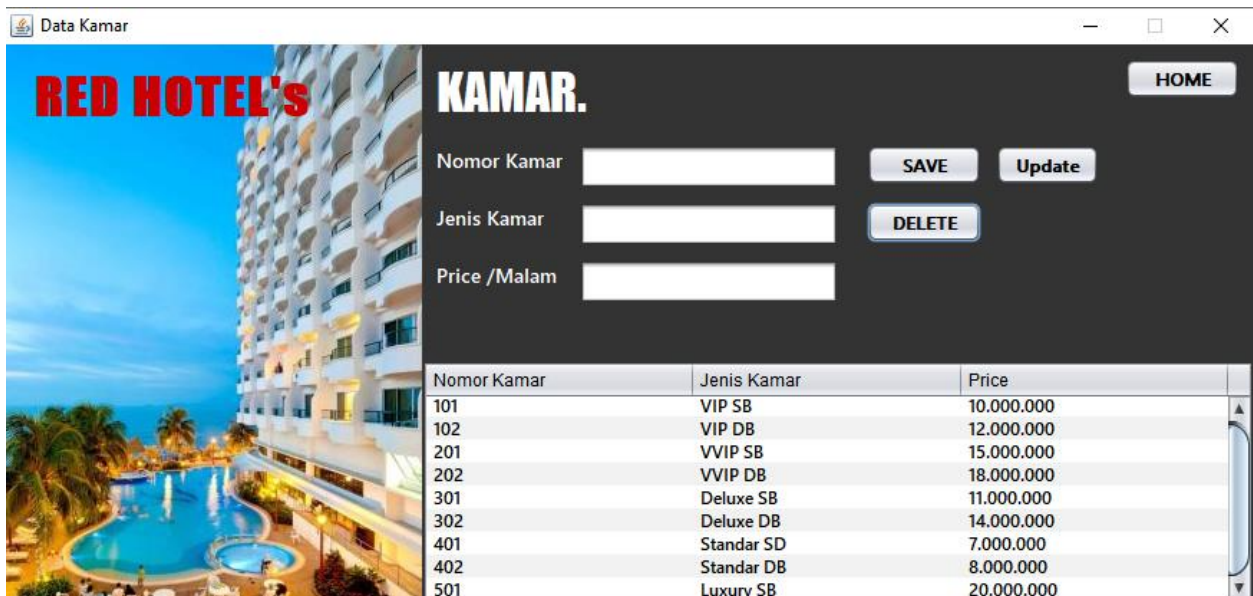
```
private void buttonUpdateActionPerformed(java.awt.event.ActionEvent evt) {  
    // TODO add your handling code here:  
    try{  
        String sql = "UPDATE kamar SET nomor_hotel='"+inputNomor.getText()+"', "  
            + "Jenis_kamar='"+inputJenis.getText()+"', Price='"+  
            +inputPrice.getText()+"'WHERE nomor_hotel = '"+inputNomor.getText()+"'";  
        java.sql.Connection conn = (Connection)Koneksi.getConnection();  
        java.sql.PreparedStatement pstmt = conn.prepareStatement(sql);  
        pstmt.execute();  
        JOptionPane.showMessageDialog(null, "Data berhasil diEdit");  
    }catch( SQLException e){  
        JOptionPane.showMessageDialog(this, e.getMessage());  
    }  
    TampilData();  
    kosongkan_form();  
}
```



## Menghapus data kamar



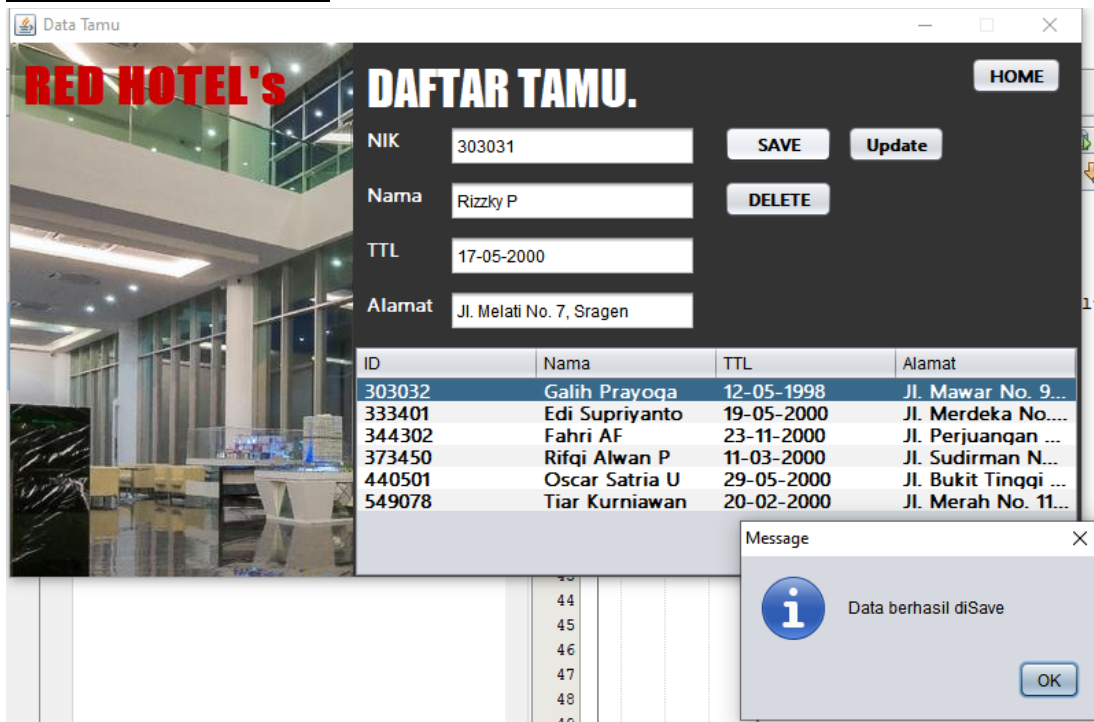
## Hasil



## Kode menghapus data kamar



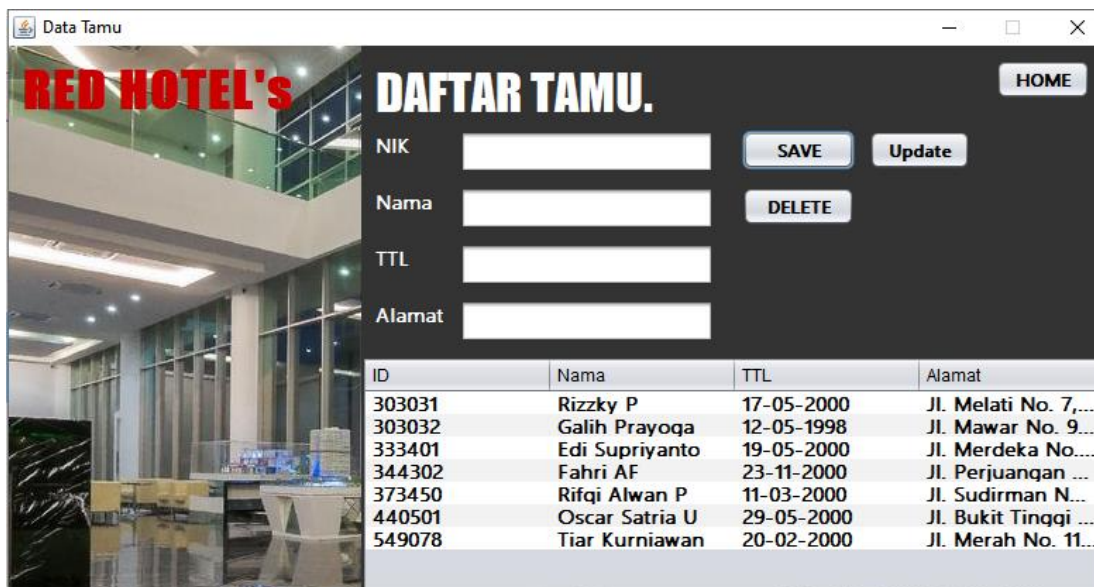
- **Tamu**  
**Menyimpan data Tamu**



The screenshot shows the 'Data Tamu' application window. On the left is a background image of a hotel lobby with the text 'RED HOTEL'S' in red. The main area is titled 'DAFTAR TAMU.' and contains a form for adding a guest. The form fields are: NIK (303031), Nama (Rizzky P), TTL (17-05-2000), and Alamat (Jl. Melati No. 7, Sragen). There are buttons for 'SAVE', 'Update', and 'DELETE'. A table below the form lists existing guests. A 'Message' dialog box is open in the foreground, displaying an information icon and the text 'Data berhasil diSave' with an 'OK' button.

ID	Nama	TTL	Alamat
303032	Galih Prayoga	12-05-1998	Jl. Mawar No. 9...
333401	Edi Supriyanto	19-05-2000	Jl. Merdeka No....
344302	Fahri AF	23-11-2000	Jl. Perjuangan ...
373450	Rifqi Alwan P	11-03-2000	Jl. Sudirman N...
440501	Oscar Satria U	29-05-2000	Jl. Bukit Tinqqi ...
549078	Tiar Kurniawan	20-02-2000	Jl. Merah No. 11...

Hasil



The screenshot shows the 'Data Tamu' application window after the data has been saved. The form fields are now empty. The table below the form shows the updated list of guests, with the first entry now being NIK 303031, Rizzky P, TTL 17-05-2000, and Alamat Jl. Melati No. 7, Sragen.

ID	Nama	TTL	Alamat
303031	Rizzky P	17-05-2000	Jl. Melati No. 7,...
303032	Galih Prayoga	12-05-1998	Jl. Mawar No. 9...
333401	Edi Supriyanto	19-05-2000	Jl. Merdeka No....
344302	Fahri AF	23-11-2000	Jl. Perjuangan ...
373450	Rifqi Alwan P	11-03-2000	Jl. Sudirman N...
440501	Oscar Satria U	29-05-2000	Jl. Bukit Tinqqi ...
549078	Tiar Kurniawan	20-02-2000	Jl. Merah No. 11...

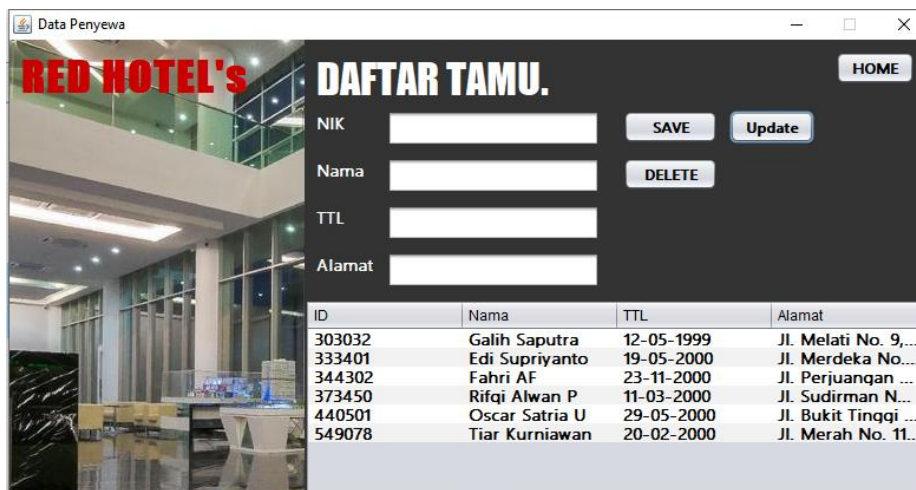
## Kode menyimpan data Tamu

```
private void SimpanActionPerformed(java.awt.event.ActionEvent evt) {  
    // TODO add your handling code here:  
    try{  
        String sql = "INSERT INTO tamu VALUES ('"+nomor.getText()+"','"+nama.getText()+"  
        "','"+ttl.getText()+"','"+alamat.getText()+"')";  
        java.sql.Connection conn = (Connection)Koneksi.getConnection();  
        java.sql.PreparedStatement pstmt = conn.prepareStatement(sql);  
        pstmt.execute();  
        JOptionPane.showMessageDialog(null, "Data berhasil diSave");  
        TampilData();  
        kosongkan_form();  
    }catch(SQLException e){  
        JOptionPane.showMessageDialog(this, e.getMessage());  
    }  
}
```

## Update data Tamu



## Hasil



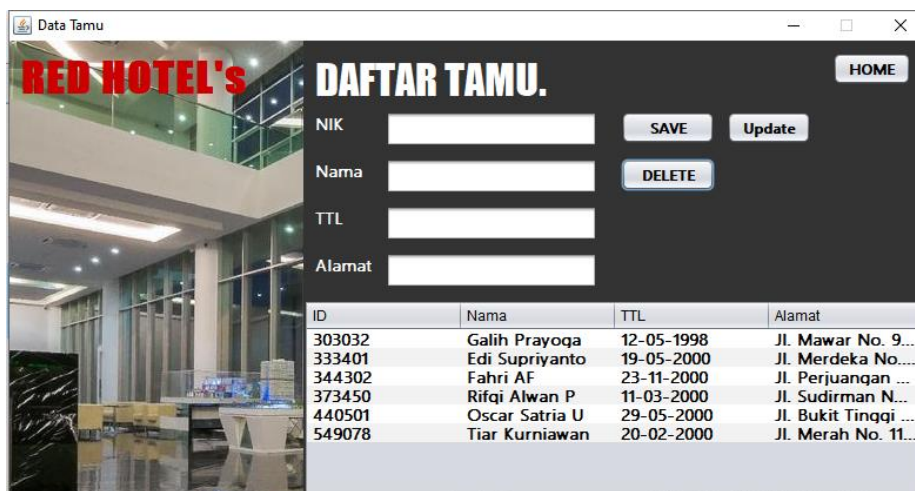
## Kode Mengupdate data Tamu

```
private void UpdateActionPerformed(java.awt.event.ActionEvent evt) {  
    // TODO add your handling code here:  
    try{  
        String sql = "UPDATE tamu SET id_tamu='"+nomor.getText()+"',nama='"+nama.getText()+"',"  
            + "ttl='"+ttl.getText()+"',alamat='"+alamat.getText()+"'WHERE id_tamu = '"+  
            nomor.getText()+"'";  
        java.sql.Connection conn = (Connection)Koneksi.getConnection();  
        java.sql.PreparedStatement pstmt = conn.prepareStatement(sql);  
        pstmt.execute();  
        JOptionPane.showMessageDialog(null, "Data berhasil diEdit");  
    }catch( SQLException e){  
        JOptionPane.showMessageDialog(this, e.getMessage());  
    }  
    TampilData();  
    kosongkan_form();  
}
```

## Menghapus Data Tamu



## Hasil





## Kode Menghapus data Tamu

```
private void HapusActionPerformed(java.awt.event.ActionEvent evt) {  
    // TODO add your handling code here:  
    try{  
        String sql = "DELETE FROM tamu WHERE id_tamu='"+nomor.getText()+"';  
        java.sql.Connection conn = (Connection)Koneksi.getConnection();  
        java.sql.PreparedStatement pstmt = conn.prepareStatement(sql);  
        pstmt.execute();  
        JOptionPane.showMessageDialog(null, "Data berhasil diDelete");  
    }catch(SQLException e){  
        JOptionPane.showMessageDialog(this, e.getMessage());  
    }  
    TampilData();  
    kosongkan_form();  
}
```

- **Transaksi**

### Save data Transaksi

The screenshot shows the 'TRANSAKSI.' application window. On the left is a logo for 'RED HOTEL's' with a background image of a hotel lobby. The main area contains a form with the following fields and values:

- Nomor Transaksi: 4011
- NIK: 402422
- Nomor Kamar: 401
- Jenis Kamar: Standar SB
- Pembayaran: 7000000
- Tanggal: 2020-06-28

Buttons for 'SAVE', 'UPDATE', and 'DELETE' are present. A 'Message' dialog box is open, displaying 'Data berhasil diSave' with an 'OK' button. Below the form is a table with the following data:

Nomor Trans...	NIK	Nomor Kamar	Jenis Kamar	Pembayaran	Tanggal
1011	330303	101	VIP SB	10000000	2020-06-28 1...
2011	343073	201	VVIP SB	15000000	2020-06-28 1...
3011	303019	301	Deluxe SB	11000000	2020-06-28 1...
3012	333302	302	Deluxe DB	14000000	2020-06-28 1...

## Hasil

The screenshot shows the 'TRANSAKSI.' application window after saving the transaction. The form fields are now empty. The table at the bottom now includes the newly saved transaction (4011):

Nomor Trans...	NIK	Nomor Kamar	Jenis Kamar	Pembayaran	Tanggal
1011	330303	101	VIP SB	10000000	2020-06-28 1...
2011	343073	201	VVIP SB	15000000	2020-06-28 1...
3011	303019	301	Deluxe SB	11000000	2020-06-28 1...
3012	333302	302	Deluxe DB	14000000	2020-06-28 1...
4011	402422	401	Standar SB	7000000	2020-06-28 0...

## Kode menyimpan Data Transaksi

```
private void saveActionPerformed(java.awt.event.ActionEvent evt) {  
    // TODO add your handling code here:  
    try{  
        String sql = "INSERT INTO transaksi VALUES ('" + nomor.getText()+"', '"+ID.getText()+  
            "','"+kamar.getText()+"', '"+jenis.getText()+"', '"+bayar.getText()+"', '"+  
            tgl.getText()+"')";  
  
        java.sql.Connection conn = (Connection)Koneksi.getConnection();  
        java.sql.PreparedStatement pstmt = conn.prepareStatement(sql);  
        pstmt.execute();  
        JOptionPane.showMessageDialog(null, "Data berhasil diSave");  
        TampilData();  
        kosongkan_form();  
    }catch(SQLException e){  
        JOptionPane.showMessageDialog(this, e.getMessage());  
    }  
}
```

## Update Data Transaksi

Nomor Trans...	NIK	Nomor Kamar	Jenis Kamar	Pembayaran	Tanggal
2011	343073	201	VVIP SB	15000000	2020-06-28 1...
3011	303019	301	Deluxe SB	11000000	2020-06-28 1...
3012	333302	302	Deluxe DB	14000000	2020-06-28 1...
4011	402422	401	Standar SB	7000000	2020-06-28 0...

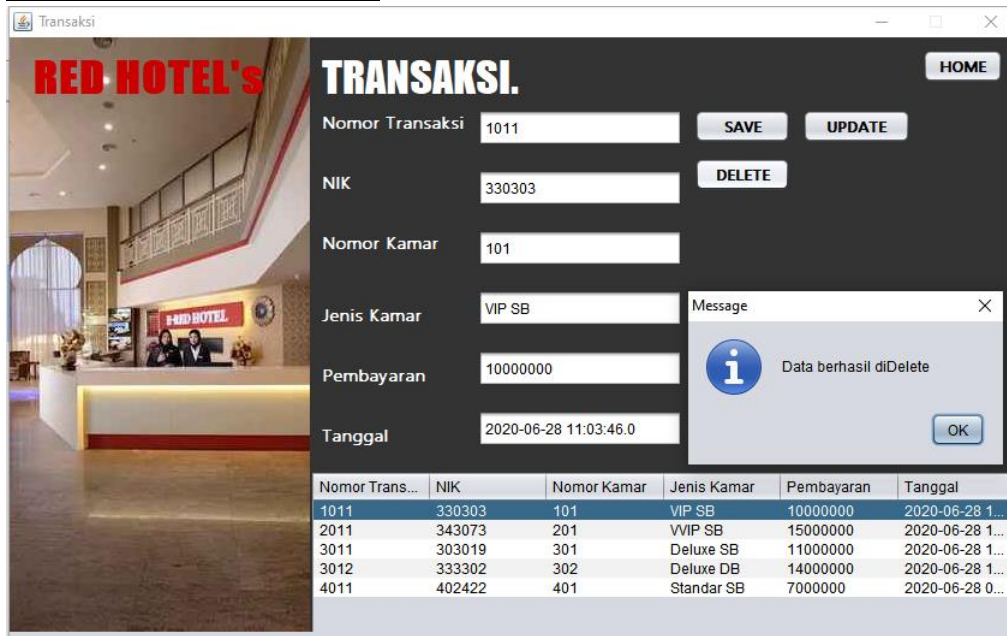
## Hasil

Nomor Trans...	NIK	Nomor Kamar	Jenis Kamar	Pembayaran	Tanggal
2011	343073	201	VVIP SB	15000000	2020-06-28 1...
3011	303019	301	Deluxe SB	11000000	2020-06-28 1...
3012	333302	302	Deluxe DB	14000000	2020-06-28 1...
4011	402422	402	Standar DB	9000000	2020-06-28 0...

## Kode mengupdate data Transaksi

```
private void updateActionPerformed(java.awt.event.ActionEvent evt) {  
    // TODO add your handling code here:  
    try{  
        String sql = "UPDATE transaksi SET no_transaksi='"+nomor.getText()+"',id_tamu='"+ID.getText()+"  
        "','nomor_hotel='"+  
        +kamar.getText()+"',jenis_kamar='"+jenis.getText()+"',pembayaran='"+  
        +bayar.getText()+"',tanggal='"+tgl.getText()+"'WHERE no_transaksi = '"+nomor.getText()+"'";  
        java.sql.Connection conn = (Connection)Koneksi.getConnection();  
        java.sql.PreparedStatement pstmt = conn.prepareStatement(sql);  
        pstmt.execute();  
        JOptionPane.showMessageDialog(null,"Data berhasil diEdit");  
    }catch( SQLException e){  
        JOptionPane.showMessageDialog(this, e.getMessage());  
    }  
    TampilData();  
    kosongkan_form();  
}
```

## Menghapus data Transaksi



TRANSAKSI.

Nomor Transaksi: 1011

NIK: 330303

Nomor Kamar: 101

Jenis Kamar: VIP SB

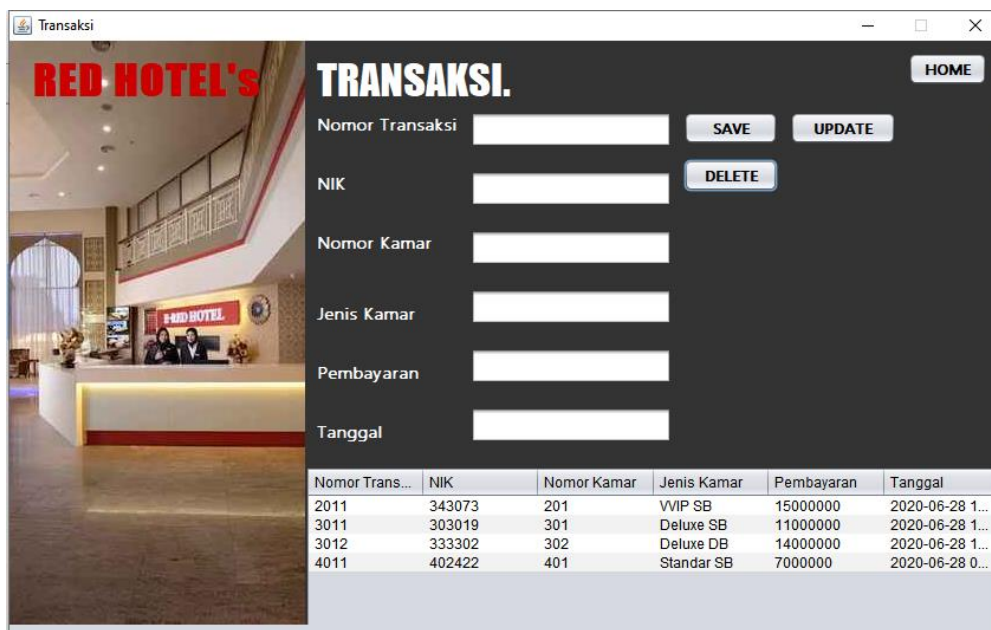
Pembayaran: 10000000

Tanggal: 2020-06-28 11:03:46.0

Message: Data berhasil diDelete

Nomor Trans...	NIK	Nomor Kamar	Jenis Kamar	Pembayaran	Tanggal
1011	330303	101	VIP SB	10000000	2020-06-28 1...
2011	343073	201	VVIP SB	15000000	2020-06-28 1...
3011	303019	301	Deluxe SB	11000000	2020-06-28 1...
3012	333302	302	Deluxe DB	14000000	2020-06-28 1...
4011	402422	401	Standar SB	7000000	2020-06-28 0...

## Hasil



TRANSAKSI.

Nomor Transaksi:

NIK:

Nomor Kamar:

Jenis Kamar:

Pembayaran:

Tanggal:

Nomor Trans...	NIK	Nomor Kamar	Jenis Kamar	Pembayaran	Tanggal
2011	343073	201	VVIP SB	15000000	2020-06-28 1...
3011	303019	301	Deluxe SB	11000000	2020-06-28 1...
3012	333302	302	Deluxe DB	14000000	2020-06-28 1...
4011	402422	401	Standar SB	7000000	2020-06-28 0...

## Kode Menghapus data Transaksi

```
private void hapusActionPerformed(java.awt.event.ActionEvent evt) {  
    // TODO add your handling code here:  
    try{  
        String sql = "DELETE FROM transaksi WHERE no_transaksi='"+nomor.getText()+"'";  
        java.sql.Connection conn = (Connection)Koneksi.getConnection();  
        java.sql.PreparedStatement pstmt = conn.prepareStatement(sql);  
        pstmt.execute();  
        JOptionPane.showMessageDialog(null, "Data berhasil diDelete");  
    }catch(SQLException e){  
        JOptionPane.showMessageDialog(this, e.getMessage());  
    }  
    TampilData();  
    kosongkan_form();  
}
```