

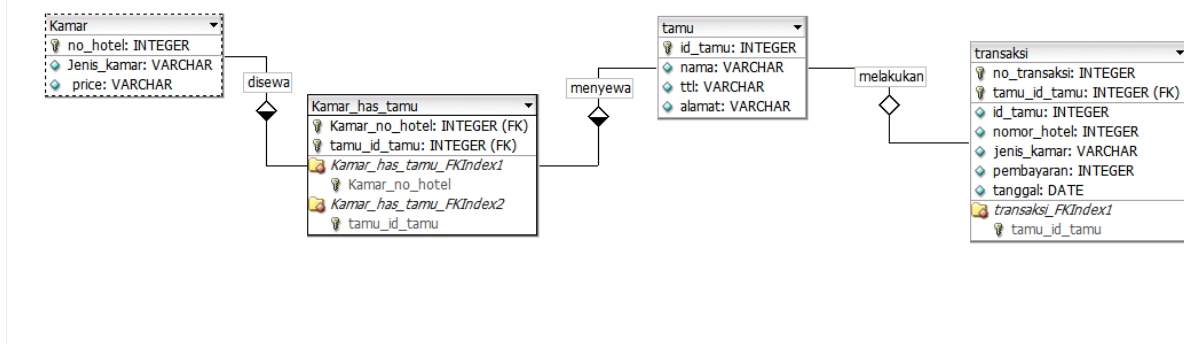
## Praktikum Sistem Basis Data

### Modul 12

Nama : Edi Supriyanto  
NIM : L200180002  
Kelas : A

### Perhotelan

- ERD



- 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

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**

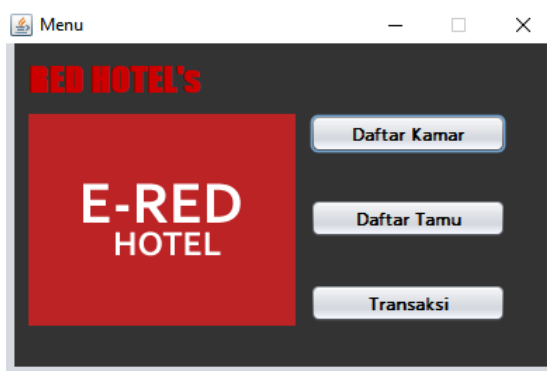
### Kode Koneksi dengan Database

```
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

## KAMAR.

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

### Menyimpan Data

## KAMAR.

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

Message

Data berhasil diSave

OK

### Hasil

## KAMAR.

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: 501 SAVE Update

Jenis Kamar: Luxury SB 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	
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:

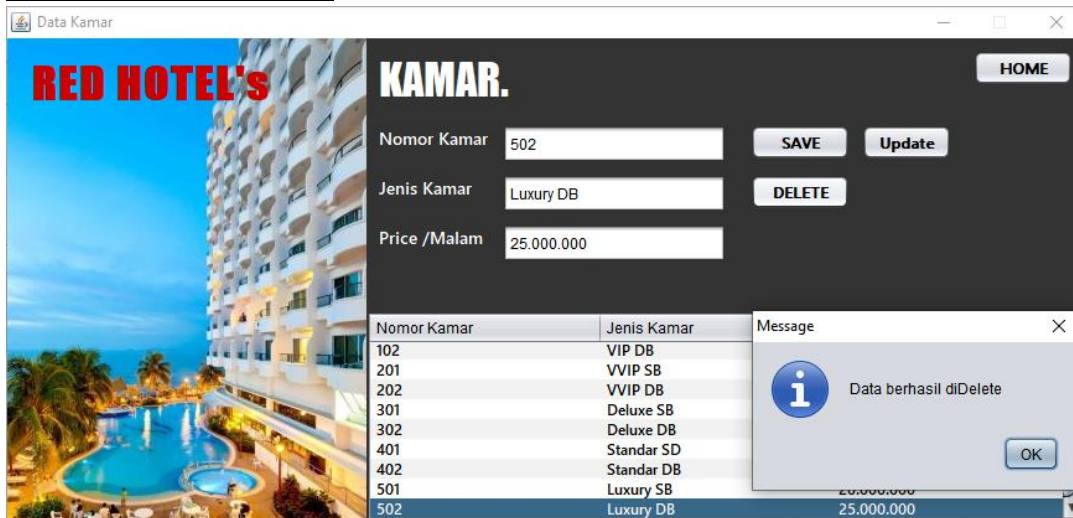
Nomor Kamar	Jenis Kamar	Price
101	VIP SB	10.000.000
102	VIP DB	12.000.000
201	VVIP SB	15.000.000
202	VVIP DB	18.000.000
301	Deluxe SB	11.000.000
302	Deluxe DB	14.000.000
401	Standar SD	7.000.000
402	Standar DB	8.000.000
501	Luxury SB	20.000.000



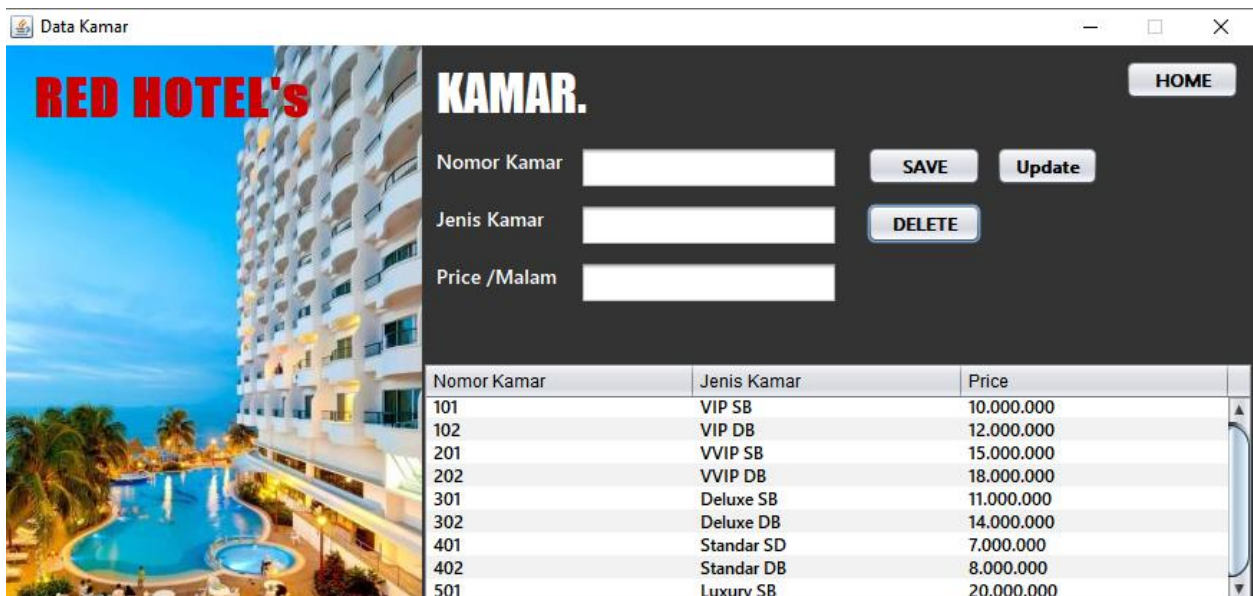
## Kode mengupdate data kamar

```
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

```
private void buttonHapusActionPerformed(java.awt.event.ActionEvent evt) {  
    // TODO add your handling code here:  
    try{  
        String sql = "DELETE FROM kamar 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 diDelete");  
    }catch(SQLException e){  
        JOptionPane.showMessageDialog(this, e.getMessage());  
    }  
    TampilData();  
    kosongkan_form();  
}
```

- **Tamu**

### Menyimpan data Tamu

RED HOTEL'S

DAFTAR TAMU.

HOME

NIK: 303031 SAVE Update

Nama: Rizky P DELETE

TTL: 17-05-2000

Alamat: Jl. Melati No. 7, Sragen

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 Tingqi ...
549078	Tiar Kurniawan	20-02-2000	Jl. Merah No. 11...

Message

i Data berhasil diSave

OK

## Hasil



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




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...

Message

Data berhasil diEdit

OK

## Hasil



**RED HOTEL'S** **DAFTAR TAMU.** HOME

NIK:  SAVE Update

Nama:  DELETE

TTL:

Alamat:

ID	Nama	TTL	Alamat
303032	Galih Saputra	12-05-1999	Jl. Melati 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 Tingqi ...
549078	Tiar Kurniawan	20-02-2000	Jl. Merah No. 11...

## 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



**RED HOTEL'S** **DAFTAR TAMU.** HOME

NIK: 303031 SAVE Update

Nama: Rizzky P DELETE

TTL: 17-05-2000

Alamat: Jl. Melati No. 7, Sragen

ID	Nama	TTL	Alamat
303031	Rizzky P	17-05-2000	Jl. Melati No. 7,...
303032	Galih Prayoqa	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 Tingqi ...
549078	Tiar Kurniawan	20-02-2000	Jl. Merah No. 11...

Message: Data berhasil diDelete OK



## Hasil

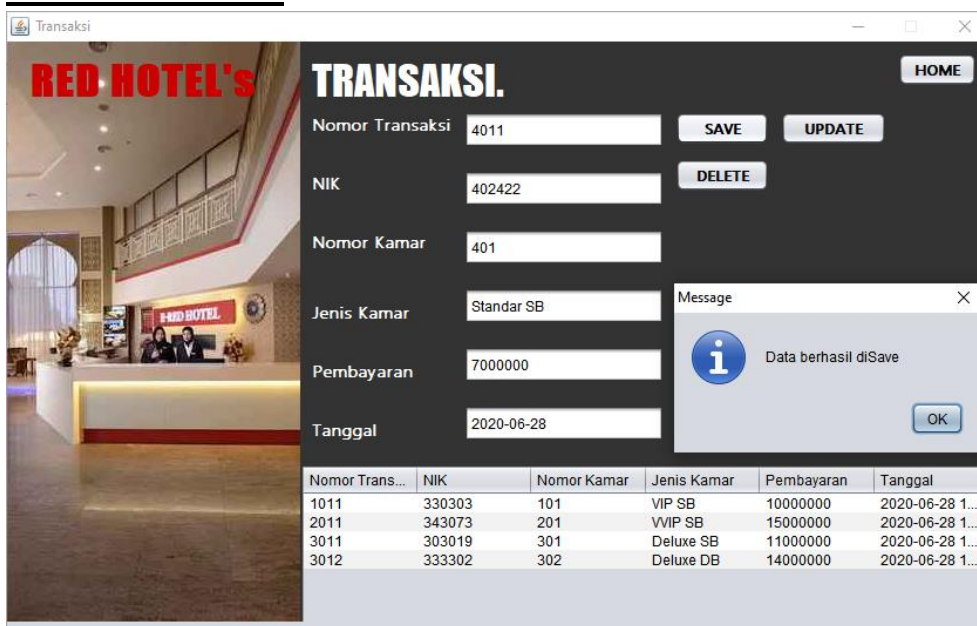


ID	Nama	TTL	Alamat
303032	Galih Prayoqa	12-05-1998	Jl. Mawar No. 9...
333401	Edi Supriyanto	19-05-2000	Jl. Merdeka No...
344302	Fahri AF	23-11-2000	Jl. Perjuangan ...
373450	Rifqi Alwan P	11-03-2000	Jl. Sudirman N...
440501	Oscar Satria U	29-05-2000	Jl. Bukit Tinqqi ...
549078	Tiar Kurniawan	20-02-2000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

## Kode Menghapus data Tamu

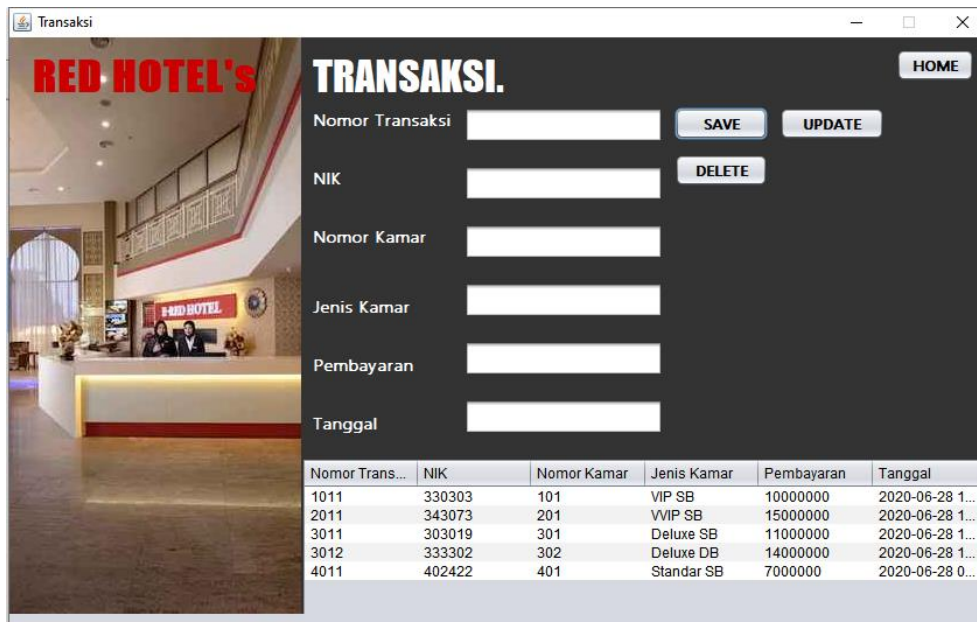
```
private void HapusActionPerformed(java.awt.event.ActionEvent evt) {  
    // TODO add your handling code here:  
    try{  
        String sql = "DELETE FROM tamu WHERE id_tamu='"+nomor.getText()+"';  
        java.sql.Connection conn = (Connection)Koneksi.getConnection();  
        java.sql.PreparedStatement 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**



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



**TRANSAKSI.** HOME

Nomor Transaksi  SAVE UPDATE

NIK  DELETE

Nomor Kamar

Jenis Kamar

Pembayaran

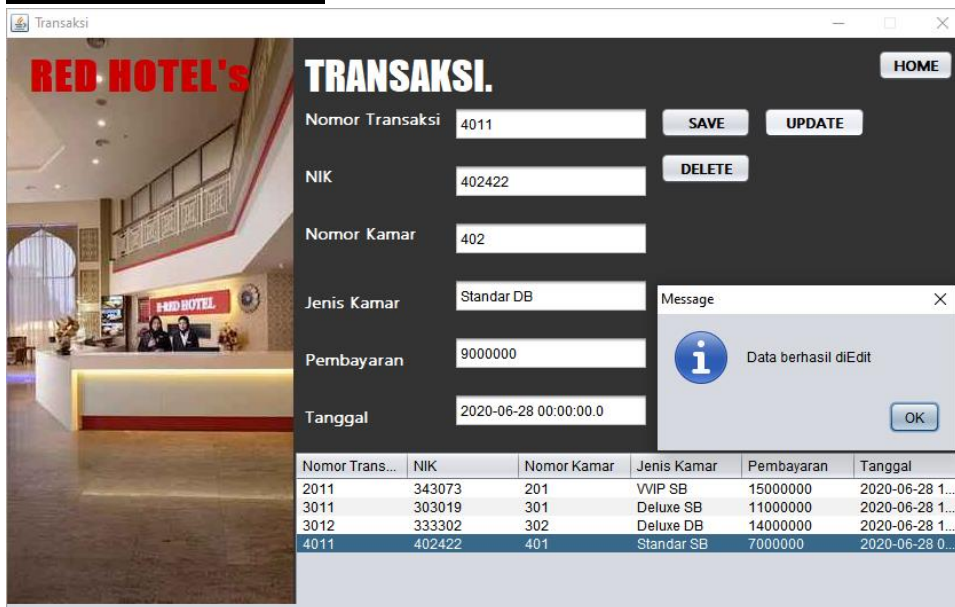
Tanggal

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



**TRANSAKSI.** HOME

Nomor Transaksi 4011 SAVE UPDATE

NIK 402422 DELETE

Nomor Kamar 402

Jenis Kamar Standar DB

Pembayaran 9000000

Tanggal 2020-06-28 00:00:00

Message

**i** Data berhasil diEdit

OK

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

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

- Nomor Transaksi: [text input] [SAVE] [UPDATE]
- NIK: [text input] [DELETE]
- Nomor Kamar: [text input]
- Jenis Kamar: [text input]
- Pembayaran: [text input]
- Tanggal: [text input]

Below the form is a table with the following data:

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

The screenshot shows the 'TRANSAKSI.' application window with the delete form filled out. The fields contain the following values:

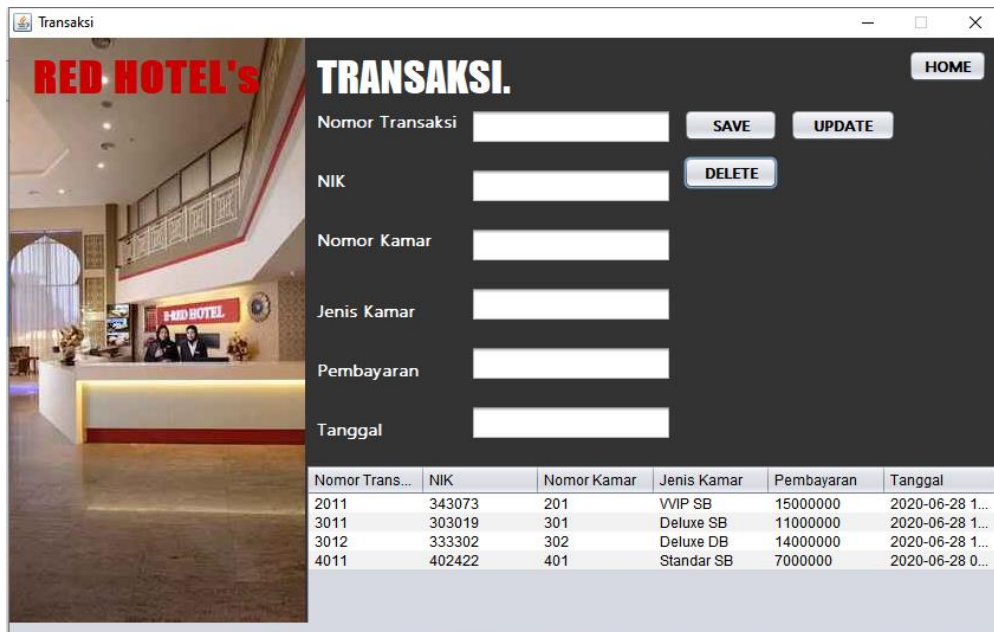
- Nomor Transaksi: 1011 [SAVE] [UPDATE]
- NIK: 330303 [DELETE]
- Nomor Kamar: 101
- Jenis Kamar: VIP SB
- Pembayaran: 10000000
- Tanggal: 2020-06-28 11:03:46.0

A message dialog box is displayed with the text "Data berhasil diDelete" and 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...
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	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();  
}
```