Nama: Kevin Hansa Wardhana

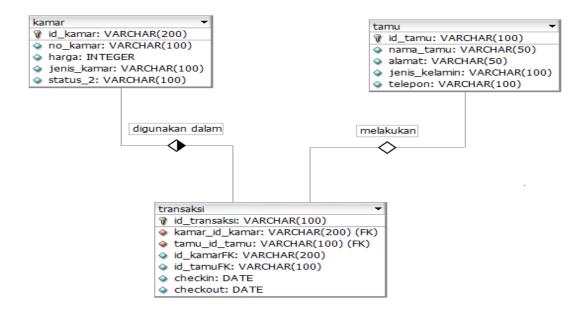
NIM: L200180004

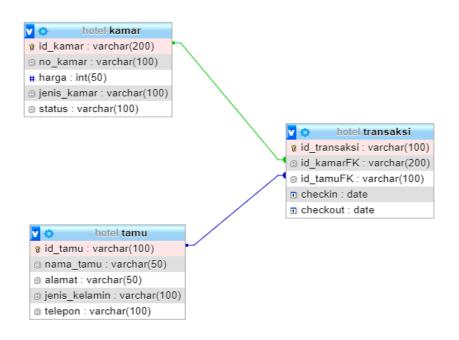
Kelas: A

#### Praktikum Sistem Basis Data Modul 12

# **Tugas**

#### **ERD Perhotelan**





## Studi kasus

Dalam hotel tersedia kamar untuk menginap. Kamar memiliki no kamar dan jenis kamar. Setiap kamar memiliki harga yang berbeda tergantung dengan jenis kamar. Dan terdapat status jika kamar tersebut sudah di dipakai atau belum dipakai.

Tamu yang ingin menginap harus registrasi tamu. Tamu harus mengisi data yang diperlukan seperti : nama tamu, alamat, jenis kelamin, dan nomor telepon nya.

Jika sudah melakukan registrasi tamu melanjutkan ke transaksi. Pada setiap transaksi memiliki id transaksi agar mudah untuk mengecek. Di dalam transaksi mengambil data dari id kamar dan id tamu sebagai foreign key. Selain itu di transaksi terdapat tanggal checkin ketika tamu melakukan transaksi dan tanggal checkout ketika tamu selesai menginap.

## Tampilan halaman utama



# Config untuk terhubung ke database

```
17
      public class config {
18
          private static Connection mysqlconfig;
19 -
          public static Connection GetConnection() throws SQLException{
20
              trv {
21
                  String url="jdbc:mysql://localhost:3306/hotel"; //url database
22
                  String user="root"; //user database
23
                  String pass=""; //password database
24
                  DriverManager.registerDriver(new com.mysql.jdbc.Driver());
25
                  mysglconfig=DriverManager.getConnection(url, user, pass);
Q.
              } catch (Exception e) {
27
                  System.err.println("koneksi gagal "+e.getMessage()); //perintah menampilkan error pada koneksi
28
29
              return mysqlconfig;
30
31
```

#### **TAMU**

## Melihat data tamu(query SELECT)

```
37
           private void tampilkan_data(){
38
              DefaultTableModel model = new DefaultTableModel();
39
              model.addColumn("Id tamu");
              model.addColumn("Nama tamu");
40
41
              model.addColumn("Alamat");
42
              model.addColumn("Jenis Kelamin");
43
              model.addColumn("Telepon");
44
45
              try{
                  String sql = "SELECT * FROM tamu";
46
47
                  java.sql.Connection conn = (Connection)config.GetConnection();
48
                  java.sql.Statement stm = conn.createStatement();
49
                  java.sql.ResultSet res = stm.executeQuery(sql);
50
51
                  while (res.next()) {
52
                      model.addRow(new Object[]{res.getString(1),
53
                          res.getString(2),
54
                          res.getString(3),
55
                          res.getString(4),
56
                          res.getString(5)});
57
58
                  tabletamu.setModel(model);
59
              }catch(SQLException e) {
60
                  System.out.println("Eror: "+ e.getMessage());
61
62
```

#### Menambah data pada table tamu(query INSERT)

```
private void tambahActionPerformed(java.awt.event.ActionEvent evt) {
273
               String idtamu=Idtamu.getText();
274
               String Namatamu=namatamu.getText();
275
               String Alamattamu=alamattamu.getText();
276
               String jenis kelamin=null;
277
               String Telp=telp.getText();
278
279
               // TODO add your handling code here:
280
                if(laki.isSelected()){
281
                   jenis kelamin = "Laki - Laki";
282
               }else if(perempuan.isSelected()){
283
                   jenis kelamin = "Perempuan";
284
285
                trv{
 Q.
                    Statement statement= (Statement) config.GetConnection().createStatement();
                    statement.executeUpdate("insert into tamu VALUES('"+idtamu+
287
                            "','"+Namatamu+"','"+Alamattamu+"','"+jenis_kelamin+"','"+Telp+"');");
 9
289
                    statement.close();
290
                    JOptionPane.showMessageDialog(null, "Data berhasil disimpan");
 Q
                }catch(Exception t) {
292
                    JOptionPane.showMessageDialog(null, "Data gagal disimpan");
293
294
                tampilkan data();
295
                kosongkan form();
296
```

#### Mengedit data pada table tamu(query UPDATE)

```
356
           private void editActionPerformed(java.awt.event.ActionEvent evt) {
357
               // TODO add your handling code here:
358
               String jenis kelamin="";
359
360
               // TODO add your handling code here:
361
                if(laki.isSelected()){
362
                   jenis kelamin = laki.getText();
363
               }else if(perempuan.isSelected()){
364
                   jenis_kelamin = perempuan.getText();
365
366
                trv{
367
                   String sql="UPDATE tamu SET id tamu = '"+Idtamu.getText()+
                           "', nama tamu = '"+namatamu.getText()+
368
                           "', alamat = '"+alamattamu.getText()+
369
370
                           "', jenis kelamin='"+jenis kelamin+
                           "',telepon= '"+telp.getText()+"' WHERE id_tamu = '"+Idtamu.getText()+"'";
371
372
                   java.sql.Connection conn=(Connection)config.GetConnection();
373
                   java.sql.PreparedStatement pst=conn.prepareStatement(sql);
374
                   pst.execute();
375
                   JOptionPane.showMessageDialog(null, "Data berhasil di edit");
 <u>Q.</u>
               } catch (Exception e) {
 Q
                   JOptionPane.showMessageDialog(null, "Data Gagal di edit"+e.getMessage());
378
379
                tampilkan data();
380
                kosongkan_form();
381
```

Menghapus data pada table tamu(query DELETE)

```
320 -
           private void hapusActionPerformed(java.awt.event.ActionEvent evt) {
321
               // TODO add your handling code here:
322
               try{
 ₽
                   Connection con=new config().GetConnection();
 <u>Q</u>
                   Statement st=con.createStatement();
325
                   String sql="delete from tamu where id tamu='"+Idtamu.getText()+"';";
326
                   st.execute(sql);
327
                   st.close();
328
                   JOptionPane.showMessageDialog(this, "Data berhasil di hapus");
329
                   tampilkan data();
 ₽.
               }catch (Exception e) {
331
                   JOptionPane.showMessageDialog(this, "Data gagal di hapus"+e);
332
333
```

#### **KAMAR**

Melihat data kamar(query SELECT)

```
36
           private void tampilkan data() {
37
              DefaultTableModel model = new DefaultTableModel();
38
              model.addColumn("Id Kamar");
39
              model.addColumn("No Kamar");
40
              model.addColumn("Harga");
41
              model.addColumn("Jenis Kamar");
42
              model.addColumn("Status");
43
44
              try{
45
                   String sql = "SELECT * FROM kamar";
46
                  java.sql.Connection conn = (Connection) config.GetConnection();
47
                   java.sql.Statement stm = conn.createStatement();
48
                   java.sql.ResultSet res = stm.executeQuery(sql);
49
50
                   while (res.next()) {
51
                       model.addRow(new Object[]{res.getString(1),
52
                           res.getString(2),
53
                           res.getString(3),
54
                           res.getString(4),
55
                           res.getString(5)});
56
57
                   tablekamar.setModel(model);
58
              }catch(SQLException e) {
                   System.out.println("Eror: "+ e.getMessage());
59
60
              }
61
```

## Menambah data pada table kamar(query INSERT)

```
253 🖃
           private void tambahActionPerformed(java.awt.event.ActionEvent evt) {
254
               // TODO add your handling code here:
255
               String idkamar=Id kamar.getText();
256
               String no kamar=nokamar.getText();
257
               String Harga=harga.getText();
258
               String jenis_kamar=jeniskamar.getText();
259
               String Status=status.getText();
260
261
                try{
 <u>Q</u>
                    Statement statement= (Statement) config. GetConnection().createStatement();
263
                    statement.executeUpdate("insert into kamar VALUES('"+idkamar+
264
                             "','"+no_kamar+
                             "','"+Harga+
265
                             "','"+jenis_kamar+
266
                             "','"+Status+"');");
 Q
268
                    statement.close();
269
                    JOptionPane.showMessageDialog(null, "Data berhasil disimpan");
 Q.
                }catch(Exception t) {
271
                    JOptionPane.showMessageDialog(null, "Data gagal disimpan");
272
                }
273
                tampilkan_data();
274
                kosongkan form();
275
276
```

## Mengedit data pada table kamar(query UPDATE)

```
328 -
           private void editActionPerformed(java.awt.event.ActionEvent evt) {
329
               // TODO add your handling code here:
330
               try{
331
                   String sql="UPDATE kamar SET id_kamar = '"+Id_kamar.getText()+
332
                           "', no_kamar = '"+nokamar.getText()+
333
                           "', harga = '"+harga.getText()+
                           "',jenis kamar='"+jeniskamar.getText()+
334
335
                           "',status= '"+status.getText()+"' WHERE id kamar = '"+Id kamar.getText()+"'";
336
                   java.sql.Connection conn=(Connection)config.GetConnection();
337
                   java.sql.PreparedStatement pst=conn.prepareStatement(sql);
338
                   pst.execute():
339
                   JOptionPane.showMessageDialog(null, "Data berhasil di edit");
 Q.
               } catch (Exception e) {
341
                   JOptionPane.showMessageDialog(null, "Data Gagal di edit"+e.getMessage());
342
343
                tampilkan data();
344
                kosongkan_form();
345
```

Menghapus data pada table kamar(query DELETE)

```
private void hapusActionPerformed(java.awt.event.ActionEvent evt) {
290
291
               // TODO add your handling code here:
292
               try{
                   Connection con=new config(). GetConnection();
                   Statement st=con.createStatement();
295
                   String sql="delete from kamar where id kamar='"+Id kamar.getText()+" ';";
296
                   st.execute(sql);
297
                   st.close();
298
                   JOptionPane.showMessageDialog(this, "Data berhasil di hapus");
299
                   tampilkan data();
 Q.
               }catch (Exception e) {
301
                   JOptionPane.showMessageDialog(this, "Data gagal di hapus"+e);
302
303
```

#### **TRANSAKSI**

Melihat data transaksi(query SELECT)

```
41
           private void tampilkan data(){
              DefaultTableModel model = new DefaultTableModel();
42
43
              model.addColumn("Id Transaksi");
44
              model.addColumn("Id Kamar");
              model.addColumn("Id Tamu");
45
46
              model.addColumn("Check In");
              model.addColumn("Check Out");
47
48
49
              try{
50
                  String sql = "SELECT * FROM transaksi";
51
                  java.sql.Connection conn = (Connection)config.GetConnection();
52
                  java.sql.Statement stm = conn.createStatement();
53
                  java.sql.ResultSet res = stm.executeQuery(sql);
54
55
                  while (res.next()) {
56
                       model.addRow(new Object[]{res.getString(1),
57
                           res.getString(2),
58
                           res.getString(3),
59
                           res.getString(4),
60
                           res.getString(5)});
61
62
                  tabletransaksi.setModel(model);
63
              }catch(SQLException e) {
64
                  System.out.println("Eror: "+ e.getMessage());
65
66
```

#### Menambah data pada table transaksi(query INSERT)

```
private void tambahActionPerformed(java.awt.event.ActionEvent evt) {
313
           // TODO add your handling code here:
314
           java.sql.Date datel = new java.sql.Date(checkin.getDate().getTime());
315
           java.sql.Date date2 = new java.sql.Date(checkout.getDate().getTime());
316
            trv{
                Statement statement= (Statement) config.GetConnection().createStatement();
318
                statement.executeUpdate("insert into transaksi VALUES(""+Id transaksi.getText()+
                       "','"+idkamarFK.getSelectedItem()+
319
                        "','"+idtamuFK.getSelectedItem()+"','"+datel+"','"+date2+"');");
321
                statement.close();
322
                JOptionPane.showMessageDialog(null, "Data berhasil disimpan");
            }catch(Exception t) {
324
                JOptionPane.showMessageDialog(null, "Data gagal disimpan");
325
326
            tampilkan_data();
327
            kosongkan form();
328
329
```

## Mengedit data pada table kamar(query UPDATE)

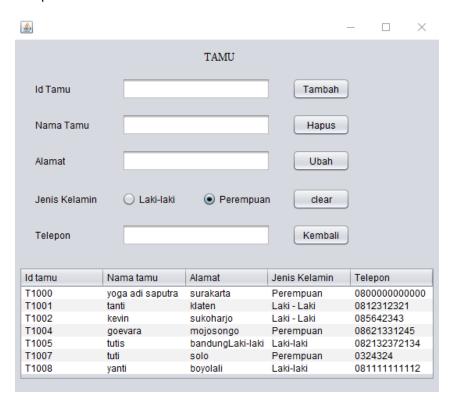
```
371 private void editActionPerformed(java.awt.event.ActionEvent evt) {
372
           // TODO add your handling code here:
373
           java.sql.Date datel = new java.sql.Date(checkin.getDate().getTime());
374
           java.sql.Date date2 = new java.sql.Date(checkout.getDate().getTime());
375
           try{
               String sql="UPDATE transaksi SET id_transaksi = '"+Id_transaksi.getText()+
376
                       "', id_kamarFK = '"+idkamarFK.getSelectedItem()+
377
                       "', id tamuFK = '"+idtamuFK.getSelectedItem()+
378
                       "', checkin='"+datel+"', checkout= '"+date2+"' WHERE id_transaksi = '"+Id_transaksi.getText()+"'";
 Q
380
               java.sql.Connection conn=(Connection) config.GetConnection();
381
               java.sql.PreparedStatement pst=conn.prepareStatement(sql);
382
               pst.execute();
383
               JOptionPane.showMessageDialog(null, "data berhasil di edit");
           } catch (Exception e) {
385
               JOptionPane.showMessageDialog(null, "Perubahan Data Gagal"+e.getMessage());
386
387
            tampilkan data();
388
            kosongkan form();
389
```

## Menghapus data pada table kamar(query DELETE)

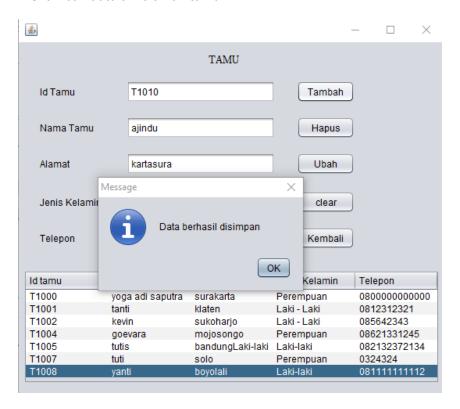
```
354 private void hapusActionPerformed(java.awt.event.ActionEvent evt) {
355
           // TODO add your handling code here:
356
 <u>Q.</u>
               Connection con=new config().GetConnection();
 <u>Q.</u>
               Statement st=con.createStatement();
359
               String sql="delete from transaksi where id transaksi='"+Id transaksi.getText()+"';";
360
               st.execute(sql);
361
               st.close();
362
               JOptionPane.showMessageDialog(this, "Data berhasil di hapus");
363
               tampilkan data();
           }catch (Exception e) {
365
               JOptionPane.showMessageDialog(this, "Data gagal di hapus"+e);
366
367
           tampilkan_data();
368
            kosongkan_form();
369
```

**TAMU** 

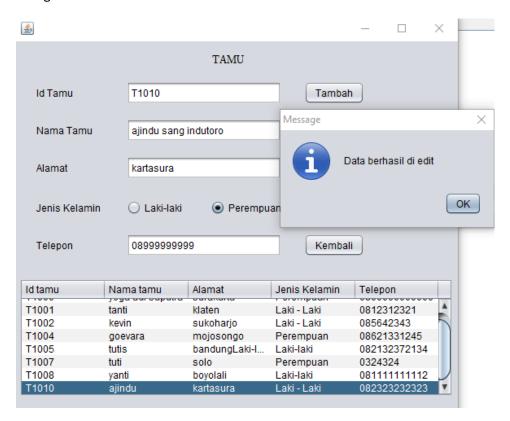
# Tampilan halaman tamu



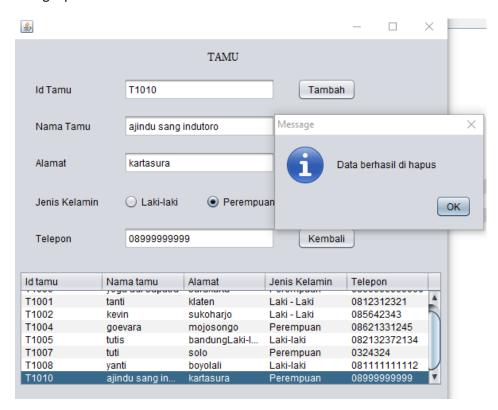
## Menambah data di halaman tamu



## Mengedit data di halaman tamu

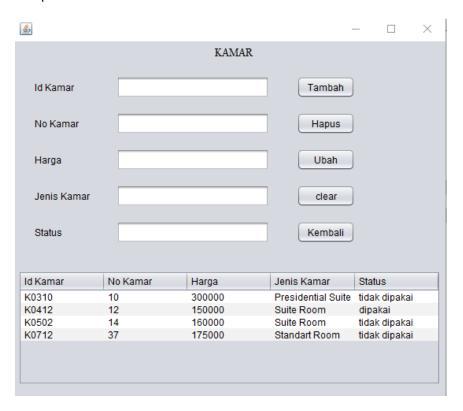


# Menghapus data di halaman tamu

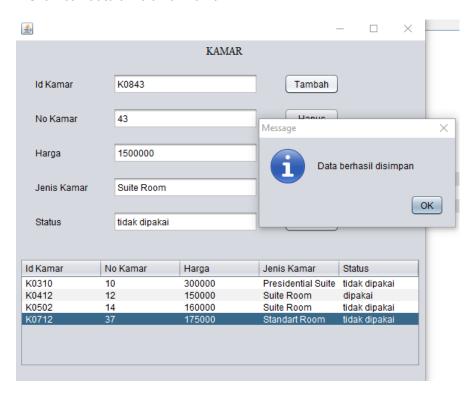


#### **KAMAR**

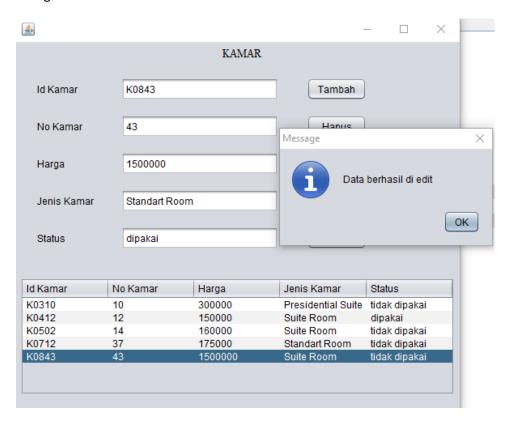
# Tampilan halaman kamar



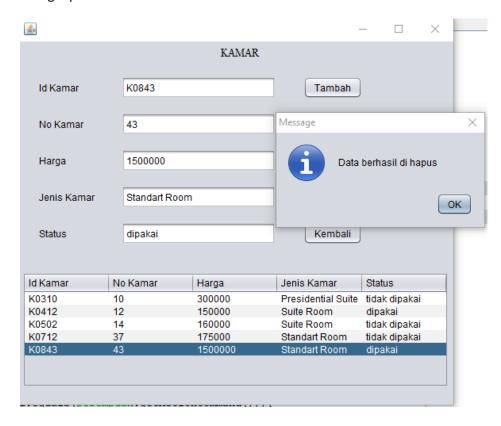
## Menambah data di halaman kamar



## Mengedit data di halaman kamar

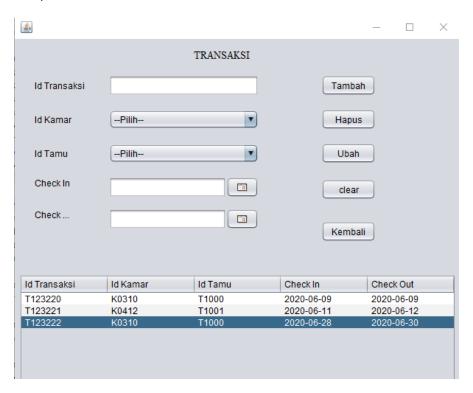


# Menghapus data di halaman kamar

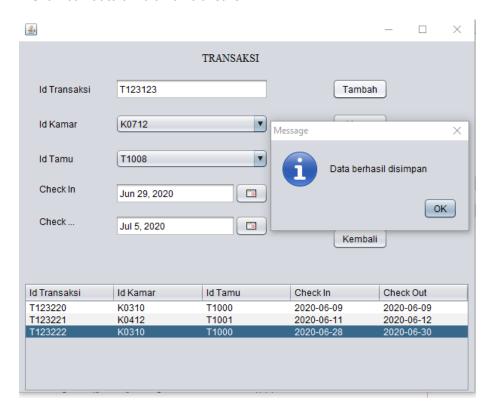


#### **TRANSAKSI**

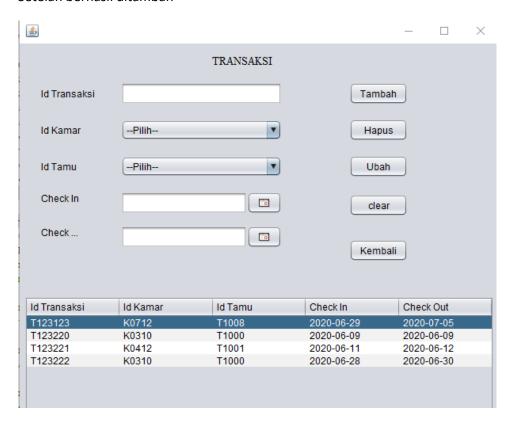
# Tampilan halaman transaksi



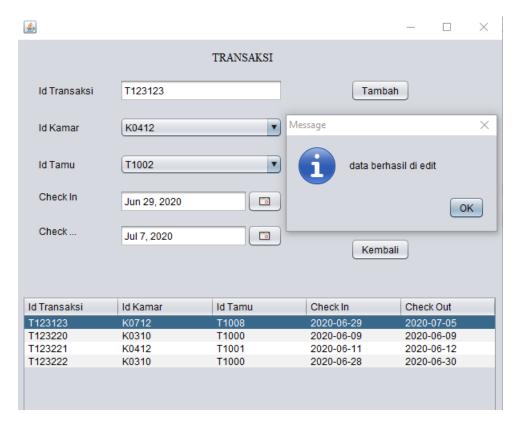
## Menambah data di halaman transaksi



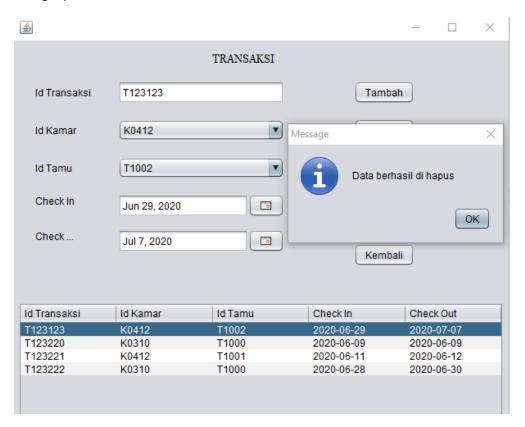
#### Setelah berhasil ditambah



# Mengedit data di halaman transaksi



# Menghapus data di halaman transaksi



## Halaman keluar

