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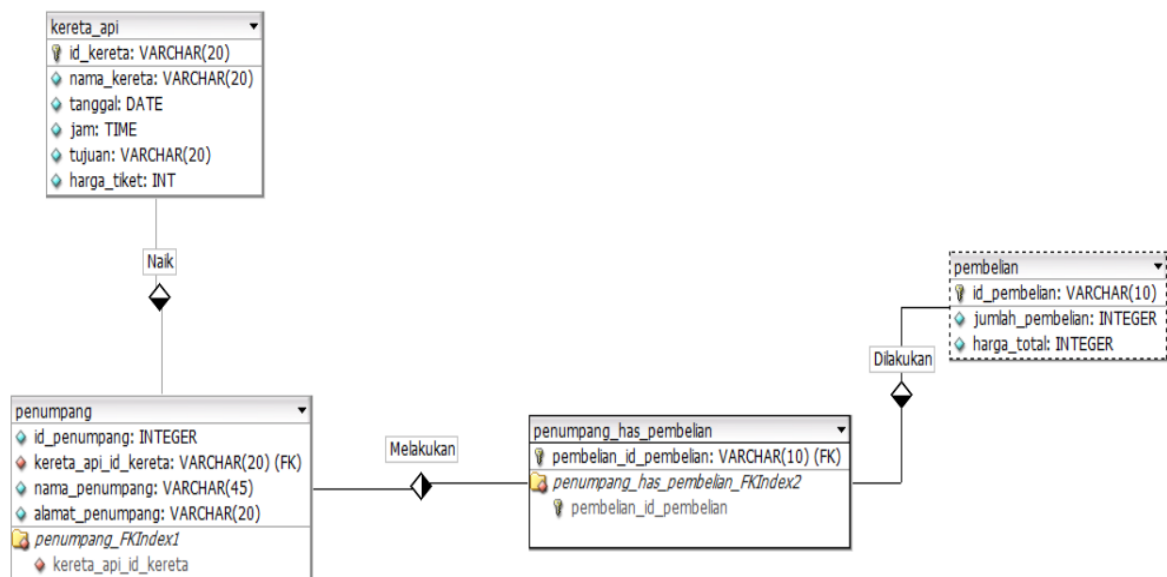
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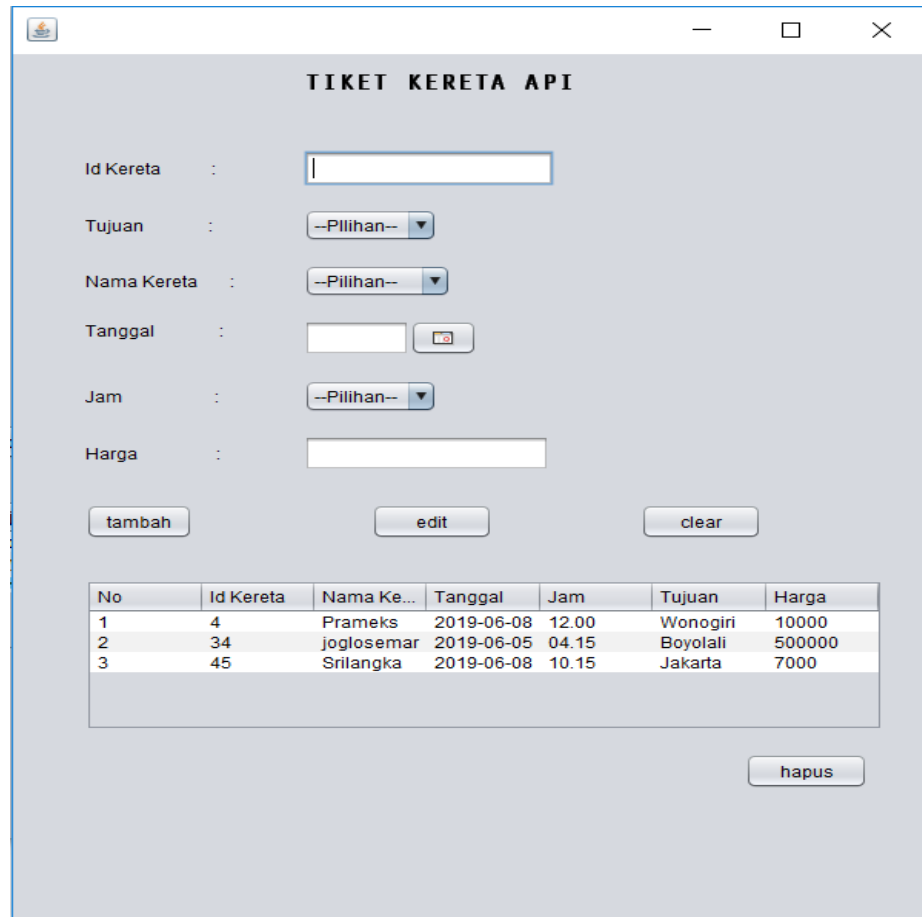
## MODUL12

### Tugas

1. Buatlah sebuah aplikasi (berbasis Python atau berbasis Java) pada studi kasus berikut ini :  
Tiket Kereta Api, dengan minimal entitas yang ada, antara lain :
  - Kereta Api
  - Penumpang
  - Pembelian
2. Pada aplikasi tersebut, buatlah ER Diagram-nya



3. Terapkan pada aplikasi tersebut, beberapa fungsi berikut untuk semua entitas :



The screenshot shows a Java Swing window titled "TIKET KERETA API". The window contains a form with the following fields and controls:

- Id Kereta**: A text input field.
- Tujuan**: A dropdown menu with "--Pilihan--" as the selected option.
- Nama Kereta**: A dropdown menu with "--Pilihan--" as the selected option.
- Tanggal**: A text input field next to a date picker icon.
- Jam**: A dropdown menu with "--Pilihan--" as the selected option.
- Harga**: A text input field.

Below the form are three buttons: "tambah", "edit", and "clear". At the bottom right is a "hapus" button.

A table is displayed below the form, showing the data entered into the form:

No	Id Kereta	Nama Ke...	Tanggal	Jam	Tujuan	Harga
1	4	Prameks	2019-06-08	12.00	Wonogiri	10000
2	34	joglosemar	2019-06-05	04.15	Boyolali	500000
3	45	Srilangka	2019-06-08	10.15	Jakarta	7000

a. Proses View (Select)

```
try{
    int no = 1;
    String sql = "select * from kereta_api";
    java.sql.Connection con = (Connection)kasir.configDB();
    java.sql.Statement sta = con.createStatement();
    java.sql.ResultSet res = sta.executeQuery(sql);
    while(res.next()){
        model.addRow(new Object[]{no++, res.getString(1), res.getString(2), res.getString(3), res.getString(4),
        res.getString(5), res.getString(6)});
    }
    jTable1.setModel(model);
} catch (Exception e){
}
}
```

## b. Insert (memasukkan data)

```
private void jtambahActionPerformed(java.awt.event.ActionEvent evt) {  
  
    try{  
        String sql = "INSERT INTO kereta_api VALUES('"+txid.getText()+"','"+txnama.getSelectedItemAt()+ "','"+tgl+"','"+  
            txjam.getSelectedItemAt()+"','"+txtujuan.getSelectedItemAt()+"','"+txharga.getText()+"')";  
        java.sql.Connection con = (Connection)kasir.configDB();  
        java.sql.PreparedStatement pre = con.prepareStatement(sql);  
        pre.execute();  
        JOptionPane.showMessageDialog(null, "Penyimpanan berhasil");  
    }catch (SQLException | HeadlessException e){  
        JOptionPane.showMessageDialog(this, e.getMessage());  
    }  
    tampil();  
    jTable();  
}
```

## c. Update (mengubah data)

```
private void jeditActionPerformed(java.awt.event.ActionEvent evt) {  
  
    try{  
        String sql = "UPDATE kereta_api SET id_kereta='"+txid.getText()+"',nama_kereta='"+txnama.getSelectedItemAt()+"',tanggal='"+  
            tgl+"',jam='"+txjam.getSelectedItemAt()+"',tujuan='"+txtujuan.getSelectedItemAt()+"',harga='"+txharga.getText()+"'  
            +'WHERE id_kereta='"+txid.getText()+"'";  
        java.sql.Connection con = (Connection)kasir.configDB();  
        java.sql.PreparedStatement pre = con.prepareStatement(sql);  
        pre.execute();  
        JOptionPane.showMessageDialog(null, "Edit data berhasil");  
    }catch (SQLException | HeadlessException e){  
        JOptionPane.showMessageDialog(this, e.getMessage());  
    }  
    tampil();  
    jTable();  
}
```

## d. Delete (menghapus data)

```
private void jhapusActionPerformed(java.awt.event.ActionEvent evt) {  
    // TODO add your handling code here:  
    try{  
        String sql = "DELETE FROM kereta_api WHERE id_kereta='"+txid.getText()+"'";  
        java.sql.Connection con = (Connection)kasir.configDB();  
        java.sql.PreparedStatement pre = con.prepareStatement(sql);  
        pre.execute();  
        JOptionPane.showMessageDialog(null, "Hapus data berhasil");  
    }catch (SQLException | HeadlessException e){  
        JOptionPane.showMessageDialog(this, e.getMessage());  
    }  
    tampil();  
    jTable();  
}
```