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Kelas : D

Modul: 12

APLIKASI "MASKERANYUK"

- 1. Entities (object-object dasar) database.
 - barang
 - pelanggan
 - transaksi
- 2. Attributes (sifat-sifat) masing-masing entity pada database
 - barang:
 - ✓ id_barang : (integer) PK
 - ✓ nama_barang : (varchar(250))
 - ✓ harga_barang : integer
 - pelanggan:
 - ✓ id_pelanggan : (integer) PK
 - ✓ nama_pelanggan : (varchar(255))
 - ✓ alamat_pelanggan : (varchar(255))
 - ✓ no_telp: integer
 - transaksi:
 - ✓ no_transaksi : (integer) PK
 - ✓ tanggal_transaksi : datetime
 - ✓ jumlah_barang : integer
 - ✓ total : integer

3. Relationship (hubungan) antar entitas

	barang	pelanggan	transaksi
barang	-	m:n	n:1
pelanggan		-	1:n
transaksi			-

Hubungan

• pelanggan membeli barang

✓ Tabel utama : pelanggan, barang

✓ Tabel kedua : pelanggan_has_barang

✓ Relationship: many-to-many (m:n)

✓ Attribute penghubung : id_barang, id_pelanggan (FK id_barang, id_pelanggan di pelanggan_has_barang)

• pelanggan melakukan transaksi

✓ Tabel utama : pelanggan

✓ Tabel kedua : transaksi

✓ Relationship : one-to-many (1:n)

✓ Attribute penghubung : id_pelanggan (FK id_pelanggan di transaksi)

• barang dikirim dengan transaksi

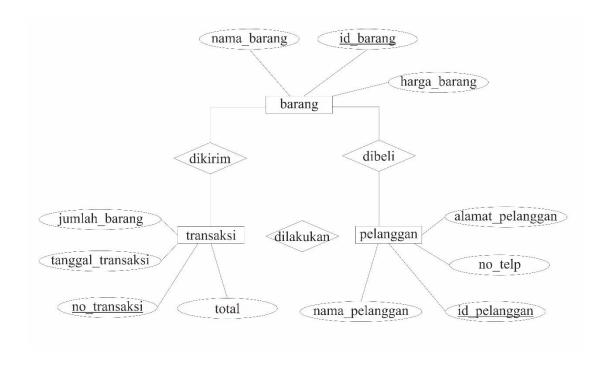
✓ Tabel utama : barang

✓ Tabel kedua : transaksi

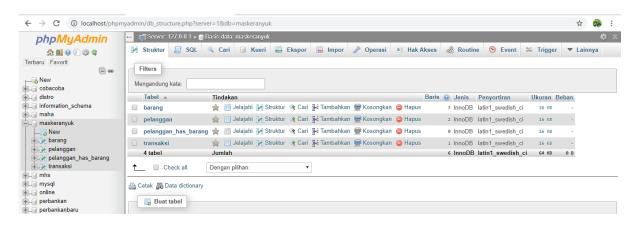
✓ Relationship: many-to-one(n:1)

✓ Attribute penghubung : id_barang (FK id_barang di transaksi)

4. Menggambar ER Diagram

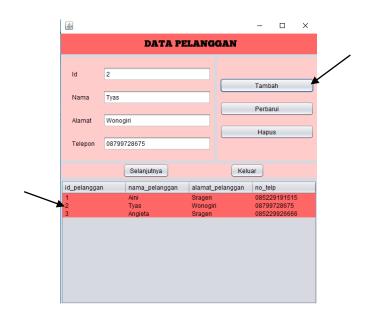


• Tampilan localhost maskeranyuk.sql

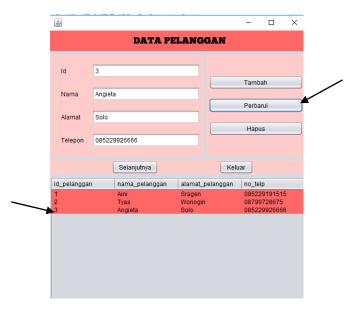


Tabel pelanggan

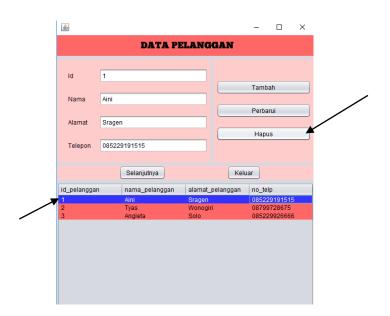
1. Insert



2. Update



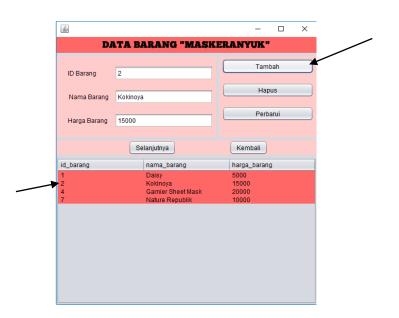
3. Delete



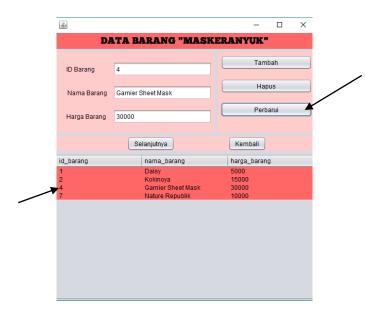


```
private void jButton2ActionPerformed(java.awt.event.ActionEvent evt) {
    // TOPO add your handling code here:
    try { // hapus data
        String sql = "delete from pelanggan where id pelanggan="" + nomor.getText() + """;
        java.sql.Connection conn = (java.sql.Connection) tugas.koneksi.koneksiDB();
        java.sql.PerparedStatement pst = conn.prepareStatement(sql);
        pst.execute();
        JOptionFane.shovMessageDialog(null, "Data akan dihapus?");
        databaru = true;
        nomor.setText("");
        nama.setText("");
        tempat.setText("");
        telp.setText("");
    } catch (SQLException | HeadlessException e) {
    }
    GetData();
}
```

- Table barang
 - 1. Insert



2. Update



```
private void jButton3ActionPerformed(java.awt.event.ActionEvent evt) {

// TODO add your handling code here:

try { //update data

String sql ="UPDATE barang SET id_barang = '"+kobar.getText()

+"', nama barang = '"+nabar.getText()+"', harga barang = '"

| habar.getText()+"' WHERE id_barang = '"+kobar.getText()+"';

java.sql.Connection conn=(Connection) koneksi.koneksiDB();

java.sql.PreparedStatement pst=conn.prepareStatement(sql);

pst.execute();

JOptionPane.showMessageDialog(null, "Data berhasil di perbarui");
} catch (SQLException | HeadlessException e) {

JOptionPane.showMessageDialog(null, "Perubahan Data Gagal"+e.getMessage());
}

GetData();
}
```

3. Delete

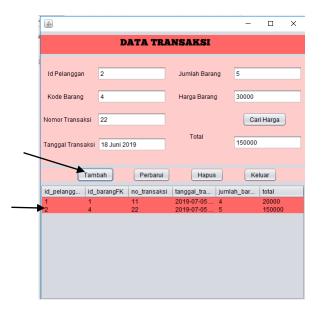




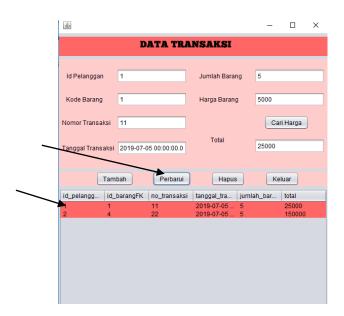
```
private void jButton2ActionPerformed(java.awt.event.ActionEvent evt) {
    // TODO add your handling code here:
    try { // hapus data
        String sql = "delete from barang where id_barang='" + kobar.getText() + "'";
        java.sql.Connection conn = (java.sql.Connection) tugas.koneksi.koneksiDB();
        java.sql.PreparedStatement pst = conn.prepareStatement(sql);
        pst.execute();
        JOptionPane.showMessageDialog(null, "Data akan dihapus?");
        databaru = true;
        kobar.setText("");
        nabar.setText("");
        habar.setText("");
        habar.setText("");
    } catch (SQLException | HeadlessException e) {
    }
    GetData();
}
```

• Table transaksi

1. Insert



2. Update



3. Delete





Buka pada cmd