

Koneksi Java Database (Part 2)

Pemrograman 3

Contoh Program Koneksi Java Database (Insert dan Select)

- Buat tabel barang sebagai berikut :

kode	namabar	harga
B11	Buku	5000
B12	Pensil	3500
B13	Kemeja	50000
B14	Payung	45000

- Buat class tambahBarang sebagai berikut :

```
import java.sql.*;
import java.util.Scanner;
class tambahBarang{
    public static void main (String []args) {
        try{
            Class.forName("org.sqlite.JDBC");
            Connection c=DriverManager.getConnection("jdbc:sqlite:D:/Data/kampus.db");
            Statement s = c.createStatement();

            Scanner f=new Scanner (System.in);
            System.out.println("Tambah Record...");
            System.out.print("Kode Barang : "); String ko=f.nextLine();
            System.out.print("Nama Barang : "); String nm=f.nextLine();
            System.out.print("Harga : "); int hg=f.nextInt();

            s.executeUpdate("insert into barang values ('"+ko+"', '"+nm+"', "+hg+"");

            System.out.println("Kode \t Nama Barang \t Harga ");
            System.out.println("-----");

            ResultSet rs=s.executeQuery("select * from barang;");
            while (rs.next()){
                System.out.print(rs.getString ("kode"));
                System.out.print ("\t"+rs.getString("namabar"));
                System.out.println("\t\t"+rs.getInt("harga"));
            }
        } catch (Exception e){System.out.println("Kesalahan : "+e.getMessage());}
    }
}
```

Output program

```
Options
-----
Tambah Record...
Kode Barang : B89
Nama Barang : Gelas
Harga : 23000
Kode      Nama Barang      Harga
-----
B11      Buku              5000
B12      Pensil            3500
B13      Kemeja            50000
B14      Payung            45000
B89      Gelas            23000
```

- Buat class ubahBarang sebagai berikut :

```
import java.sql.*;
import java.util.Scanner;
class ubahBarang{
    public static void main (String []args) {
        try{
            Class.forName("org.sqlite.JDBC");
            Connection c=DriverManager.getConnection("jdbc:sqlite:D:/Data/kampus.db");
            Statement s = c.createStatement();

            Scanner f=new Scanner (System.in);
            System.out.println("Ubah Record...");
            System.out.print("Kode Barang : "); String ko=f.nextLine();
            System.out.print("Nama Barang : "); String nm=f.nextLine();
            System.out.print("Harga : "); int hg=f.nextInt();

            s.executeUpdate("update barang set namabar='"+nm+"', harga="+hg+" where kode='"+ko+"'");
            System.out.println("Kode \t Nama Barang \t Harga ");
            System.out.println("=====");

            ResultSet rs=s.executeQuery("select * from barang;");
            while (rs.next()){
                System.out.print(rs.getString ("kode"));
                System.out.print ("\t"+rs.getString("namabar"));
                System.out.println("\t\t"+rs.getInt("harga"));
            }
        } catch (Exception e){System.out.println("Kesalahan : "+e.getMessage());}
    }
}
```

Output program

Options

Ubah Record...

Kode Barang : B89

Nama Barang : Piring

Harga : 20000

Kode	Nama Barang	Harga
------	-------------	-------

B11	Buku	5000
B12	Pensil	3500
B13	Kemeja	50000
B14	Payung	45000
B89	Piring	20000

- Buat class hapusBarang sebagai berikut :

```
import java.sql.*;
import java.util.Scanner;
class hapusBarang{
    public static void main (String []args) {
        try{
            Class.forName("org.sqlite.JDBC");
            Connection c=DriverManager.getConnection("jdbc:sqlite:D:/Data/kampus.db");
            Statement s = c.createStatement();

            Scanner f=new Scanner (System.in);
            System.out.println("Hapus Record...");
            System.out.print("Kode Barang : "); String ko=f.nextLine();

            s.executeUpdate("delete from barang where kode='"+ko+"'");

            System.out.println("Kode \t Nama Barang \t Harga ");
            System.out.println("=====");

            ResultSet rs=s.executeQuery("select * from barang;");
            while (rs.next()){
                System.out.print(rs.getString ("kode"));
                System.out.print ("\t"+rs.getString("namabar"));
                System.out.println("\t\t"+rs.getInt("harga"));
            }
        } catch (Exception e){System.out.println("Kesalahan : "+e.getMessage());}
    }
}
```

Output program

Options		
Hapus Record...		
Kode Barang : B89		
Kode	Nama Barang	Harga
=====		
B11	Buku	5000
B12	Pensil	3500
B13	Kemeja	50000
B14	Payung	45000



TUGAS

Buat sebuah program yang terkoneksi dengan database (tabel: bebas, minimal 5 field) yang mempunyai menu :

- Menampilkan
- Menambah Record
- Merubah Record
- Menghapus Record