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Tugas JDBC

Appclass

```
import java.io.BufferedReader;
import java.io.InputStreamReader;
import java.sql.DriverManager;
import java.sql.Connection;
import java.sql.Statement;
import java.util.Scanner;
import java.sql.ResultSet;

public class App {
    static final String JDBC_DRIVER =
"com.mysql.jdbc.Driver";
    static final String DB_URL =
"jdbc:mysql://localhost/zealous_mart";
    static final String USER = "root";
    static final String PASS = "";

    static Connection conn;
    static Statement stmt;
    static ResultSet rs;

    public static void main(String[] args) {
        Scanner scanner = new Scanner(System.in);

        //polymorphisme
        DataCustomer Zaki = new Customer();

        Login Andafi = new Login();
        Andafi.login();

        //inputkan data
        Zaki.inputDataPelanggan();

        //mencetak struk
        Zaki.Struk();

        try {
            Class.forName(JDBC_DRIVER);

            conn = DriverManager.getConnection(DB_URL, USER,
PASS);

            stmt = conn.createStatement();

            String sql = "INSERT INTO customer (kode_barang,
```

```

no_faktur, nama_customer, no_hp, alamat) VALUE ('%s', '%s',
'%s', '%s', '%s' )";
        sql = String.format(sql, Zaki.getKodeBarang(),
Zaki.getFaktur(), Zaki.getNama(), Zaki.getNoHP(),
Zaki.getAlamat());
        stmt.execute(sql);

        while (!conn.isClosed()) {
            showMenu();
        }

        stmt.close();
        conn.close();
    } catch (Exception e) {
        e.printStackTrace();
    }

    scanner.close();

}

static Scanner scanner = new Scanner(System.in);

static void showMenu() {
    System.out.println("\n===== MENU UTAMA
=====");
    System.out.println("1. Show Data");
    System.out.println("2. Edit Data");
    System.out.println("3. Delete Data");
    System.out.println("0. Keluar");
    System.out.println("");
    System.out.print("PILIHAN> ");

    try {
        Integer pilihan =
Integer.parseInt(scanner.nextLine());

        switch (pilihan) {
            case 0:
                System.exit(0);
                break;
            case 1:
                showData();
                break;
            case 2:
                updateData();
                break;
            case 3:
                deleteData();
                break;

```

```

        default:
            System.out.println("Pilihan salah!");
    }
} catch (Exception e) {
    e.printStackTrace();
}

static void showData() {
    String sql = "SELECT * FROM customer";

    try {
        rs = stmt.executeQuery(sql);

System.out.println("+-----+");
        System.out.println("|          Z E A L O U S   M A R T
|");

System.out.println("+-----+");

        while (rs.next()) {
            String no_faktur = rs.getString("no_faktur");
            String nama_customer =
rs.getString("nama_customer");
            String no_hp = rs.getString("no_hp");
            String alamat = rs.getString("alamat");
            String kode_barang =
rs.getString("kode_barang");

            System.out.println(String.format("%s. %s --
%s -- (%s)", kode_barang, no_faktur, nama_customer, alamat,
no_hp));
        }

    } catch (Exception e) {
        e.printStackTrace();
    }

}

static void updateData() {
    try {

        // ambil input dari user
        System.out.print("Kode Barang yang mau diedit :
");

        String kode_barang = scanner.nextLine();
        System.out.print("No Faktur : ");

```

```

        String no_faktur = scanner.nextLine();
        System.out.print("Nama Customer : ");
        String nama_customer = scanner.nextLine().trim();
        System.out.print("Alamat : ");
        String alamat = scanner.nextLine().trim();

        // query update
        String sql = "UPDATE customer SET
nama_customer='%s', no_faktur='%s', alamat='%s' WHERE
kode_barang='%s'";
        sql = String.format(sql, nama_customer,
no_faktur, alamat, kode_barang);

        // update data Data
        stmt.execute(sql);

    } catch (Exception e) {
        e.printStackTrace();
    }
}

static void deleteData() {
    try {

        // ambil input dari user
        System.out.print("Kode Barang yang mau dihapus :
");

        String kode_barang = (scanner.nextLine());

        // buat query hapus
        String sql = String.format("DELETE FROM customer
WHERE kode_barang='%s'", kode_barang);

        // hapus data
        stmt.execute(sql);

        System.out.println("Data telah terhapus...");
    } catch (Exception e) {
        e.printStackTrace();
    }
}
}

```

CetakStruk

```
public interface CetakStruk {  
    //method untuk mencetak struk  
    public void Struk();  
}
```

Customer

```
import java.util.Scanner;  
  
public class Customer extends DataCustomer{  
  
    //method untuk mengisi data pelanggan  
    public void inputDataPelanggan(){  
        Scanner scanStr = new Scanner(System.in);  
        Scanner scanIn = new Scanner(System.in);  
        System.out.print("Masukkan no faktur \t= ");  
        faktur = scanStr.next();  
        System.out.print("Masukkan nama pelanggan = ");  
        nama = scanStr.next();  
        System.out.print("Masukkan no HP \t\t= ");  
        noHP = scanStr.next();  
        System.out.print("Masukkan alamat \t= ");  
        alamat = scanStr.next();  
        System.out.print("Masukkan nama barang \t= ");  
        namaBarang = scanStr.next();  
        System.out.print("Masukkan kodebarang \t= ");  
        kodeBarang = scanStr.next();  
  
        System.out.print("Masukkan harga barang \t= ");  
        //exception handling  
        try {  
            hargaBarang = scanIn.nextInt();  
            if (hargaBarang < 500){  
                throw new IllegalArgumentException ("harga  
barang tidak valid");  
            }  
        } catch (Exception e) {  
            System.out.println(e.getMessage());  
            System.out.println("Inputkan kembali harga barang  
\t=");  
            hargaBarang = scanIn.nextInt();  
        }  
  
        System.out.print("Masukkan jumlah barang \t= ");  
        jmlBarang = scanIn.nextInt();  
    }  
  
    //method untuk mencetak struk
```

```

@Override
public void Struk() {
    Integer totalBayar = hargaBarang*jmlBarang;
    this.totalBayar = totalBayar;
    System.out.println("\n\n\n");
    System.out.println("~~~~~ ZEALOUS MART
~~~~~");
    System.out.println(hari.format(date));
    System.out.println(jam.format(date));
    System.out.println("No Faktur \t: \n" + faktur);
    System.out.println("~~~~~ DATA PELANGGAN
~~~~~");
    System.out.println("Nama Pelanggan \t: " + nama);
    System.out.println("No HP \t\t: " + noHP);
    System.out.println("Alamat \t\t\n: " + alamat);
    System.out.println("~~~~~ DATA PEMBELIAN BARANG
~~~~~");
    System.out.println("Nama Barang \t: " + namaBarang);
    System.out.println("Kode Barang \t: " + kodeBarang);
    System.out.println("Harga \t\t: " + hargaBarang);
    System.out.println("Jumlah \t\t: " + jmlBarang);
    System.out.println("Total Bayar \t: " +
this.totalBayar);

System.out.println("=====
");
    System.out.println("Kasir \t\t: Muhammad Zaki
Andafi\n");

    //method string
    System.out.println("Ini Method String");
    System.out.println("toUperrcase\t: " +
nama.toUpperCase() );
    System.out.println("toLowercase\t: " +
nama.toLowerCase() );
    System.out.println("toUperrcase\t: " +
namaBarang.toUpperCase() );
    System.out.println("toLowercase\t: " +
namaBarang.toLowerCase() );
    System.out.println("length\t\t: " +
namaBarang.length() );
    System.out.println("length\t\t: " + nama.length() );
    System.out.println("compareto\t: " +
nama.compareTo(alamat));

}

}

```

DataCustomer

```
import java.text.SimpleDateFormat;
import java.util.Date;

public class DataCustomer implements CetakStruk {
    String faktur;
    String nama;
    String noHP;
    String namaBarang;
    String kodeBarang;
    String alamat;
    int hargaBarang;
    Integer jmlBarang;
    Integer totalBayar;

    @Override
    public void Struk() {

    }

    //date
    Date date = new Date();
    SimpleDateFormat hari = new
SimpleDateFormat("'Hari/Tanggal \t:' EEEEEEEEEEE dd-mm-yyyy");
    SimpleDateFormat jam = new SimpleDateFormat("'Waktu
\t\t:' hh:mm:ss z");

    //method untuk mengisi data pelanggan
    public void inputDataPelanggan() {
    }
}
```

Login

```
import java.util.Scanner;

public class Login {
    String user = "zaki";
    String password = "andafil23";
    String captcha = "qwaszx";
    String inputCaptcha;
    String inputUser;
    String inputPassword;

    //method login
    public void login(){
        Scanner scanner = new Scanner(System.in);

        System.out.println("~~~~~ L O G I N
```

```

~~~~~");

//Password
while(true){
    System.out.println("Inputkan Username");
    inputUser = scanner.next();
    System.out.println("Inputkan Password");
    inputPassword = scanner.next();

    if
(inputPassword.equals(password)&&inputUser.equals(user)){
        System.out.println("_____ L O G I N    S U K S E S
_____
\n\n");
        break;
    }else{
        System.out.println("Username atau password anda salah
\n");
    }
}

//Captcha
System.out.println("Kode captcha = " + captcha);
System.out.println("Masukkan captcha");
inputCaptcha = scanner.next();

while(!inputCaptcha.equalsIgnoreCase(captcha)){
    System.out.println("Kode captcha salah!!!!\n");
    System.out.println("Masukkan captcha");
    inputCaptcha = scanner.next();
}

System.out.println("CAPTCHA BENAR, ANDA MANUSIA\n\n");
}
}

```

Output


~~~~~ L O G I N ~~~~~

Inputkan Username

zaki

Inputkan Password

andafi123

\_\_\_\_\_ L O G I N   S U K S E S   \_\_\_\_\_

Kode captcha = qwaszx

Masukkan captcha

qwaszx

CAPTCHA BENAR, ANDA MANUSIA

Masukkan no faktur        = f123

Masukkan nama pelanggan = zaki

Masukkan no HP            = 082261457009

Masukkan alamat          = padang

Masukkan nama barang     = buah

Masukkan kode barang     = b123

Masukkan harga barang    = 20000

Masukkan jumlah barang   = 5

~~~~~ ZEALOUS MART ~~~~~

Hari/Tanggal : Tuesday 26-49-2023

Waktu : 11:49:37 WIB

No Faktur :

f123

~~~~~ DATA PELANGGAN ~~~~~

Nama Pelanggan   : zaki

No HP             : 082261457009

Alamat

: padang

~~~~~ DATA PEMBELIAN BARANG ~~~~~

Nama Barang : buah

Kode Barang : b123

Harga : 20000

Jumlah : 5

Total Bayar : 100000

=====

Kasir : Muhammad Zaki Andafi

Ini Method String

toUpperCase : ZAKI

toLowerCase : zaki

toUpperCase : BUAH

toLowerCase : buah

length : 4

length : 4

compareTo :10

Loading class `com.mysql.jdbc.Driver'. This is deprecated. The new driver class is `com.mysql.cj.jdbc.Driver'. The driver is automatically registered via the SPI and manual loading of the driver class is generally unnecessary.

```

PILIHAN> 1
+-----+
|   Z E A L O U S   M A R T   |
+-----+
b123. f123 -- zaki -- (padang)

===== MENU UTAMA =====
1. Show Data
2. Edit Data
3. Delete Data
0. Keluar

PILIHAN> 2
Kode Barang yang mau diedit : b123
No Faktur : f200
Nama Customer : budi
Alamat : bukittinggi

===== MENU UTAMA =====
1. Show Data
2. Edit Data
3. Delete Data
0. Keluar

PILIHAN> 1
+-----+
|   Z E A L O U S   M A R T   |
+-----+
b123. f200 -- budi -- (bukittinggi)

===== MENU UTAMA =====
1. Show Data
2. Edit Data
3. Delete Data
0. Keluar

```

```

PILIHAN> 3
Kode Barang yang mau dihapus : b123
Data telah terhapus...

===== MENU UTAMA =====
1. Show Data
2. Edit Data
3. Delete Data
0. Keluar

PILIHAN> 0
PS C:\Users\Administrator\Videos\Tugas JDI

```