

Zid'Avwa Al Bari'i

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All the code here is on GitHub

<https://github.com/ZidAvwa/CollegeStudy/tree/main/3rdSemester/15.%20Jobsheet15>

Jobsheet 15

Experiment 1

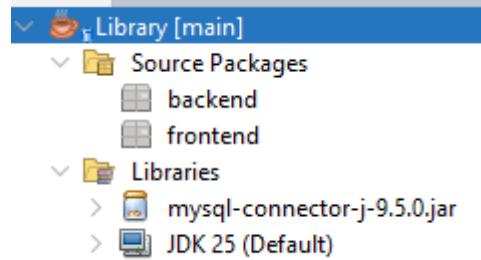
Tables

| # | Name | Datatype | Length | Uniq. | Auto. | Zerofill | Default | |
|---|-----------|----------|--------|-------|-------|----------|----------------|--|
| 1 | idanggota | INT | | | | | AUTO_INCREMENT | |
| 2 | nama | VARCHAR | 255 | | | | NULL | |
| 3 | alamat | VARCHAR | 255 | | | | NULL | |
| 4 | telepon | VARCHAR | 25 | | | | NULL | |

| # | Name | Datatype | Length | Uniq. | Auto. | Zerofill | Default | |
|---|------------|----------|--------|-------|-------|----------|------------|--|
| 1 | idkategori | INT | | | | | No default | |
| 2 | nama | VARCHAR | 255 | | | | NULL | |
| 3 | keterangan | VARCHAR | 255 | | | | NULL | |

| # | Name | Datatype | Length | Uniq. | Auto. | Zerofill | Default | |
|---|--------------|----------|--------|-------|-------|----------|----------------|--|
| 1 | idpenulis | INT | | | | | AUTO_INCREMENT | |
| 2 | idanggota | INT | | | | | No default | |
| 3 | idbuku | INT | | | | | No default | |
| 4 | tanggallahir | DATE | | | | | NULL | |
| 5 | tanggalmati | DATE | | | | | NULL | |

Experiment 2



Experiment 3 & 4

Too long to screenshot. So I put it on my GitHub.

Experiment 5

```
1 package frontend;
2 import backend.*;
3
4 public class TestBackend {
5
6     public static void main(String[] args) {
7         Kategori kat1 = new Kategori("Novel", "Koleksi buku novel");
8         Kategori kat2 = new Kategori("Referensi", "Buku referensi ilmiah");
9         Kategori kat3 = new Kategori("Komik", "Komik anak-anak");
10
11         kat1.save();
12         kat2.save();
13         kat3.save();
14
15         kat2.setKeterangan("Koleksi buku referensi ilmiah");
16         kat2.save();
17
18         kat3.delete();
19
20         for (Kategori k : new Kategori().getAll()) {
21             System.out.println("Nama: " + k.getNama() + ", Kat: " + k.getKeterangan());
22         }
23
24         for (Kategori k : new Kategori().search("ilmiah")) {
25             System.out.println("Nama: " + k.getNama() + ", Kat: " + k.getKeterangan());
26         }
27     }
28 }
```

CollegeStudy - D:\Eduah\Pengraman\CollegeStudy - Library (run) >

```
java
Nama: Novel, Kat: Koleksi buku novel
Nama: Referensi, Kat: Koleksi buku referensi ilmiah
Nama: Referensi, Kat: Koleksi buku referensi ilmiah
BUILD SUCCESSFUL (total time: 1 second)
```

Experiment 6

| ID | Nama | Keterangan |
|----|-----------|-----------------------------|
| 1 | Novel | Koleksi buku novel |
| 2 | Referensi | Koleksi buku referensi i... |

Experiment 7

| ID | Kategori | Judul | Penerbit | Penulis |
|----|----------|------------|------------|---------|
| 1 | Novel | Timun Mbak | Bukan Saya | Saya |

TASK

The screenshot shows a Windows application window titled "TASK". The interface includes the following elements:

- Form Fields:** ID (containing "0"), ID Anggota (text input), Cari (button) and Nama Anggota (text input), ID Buku (text input), Cari (button) and Judul Buku (text input), Tanggal Pinjam (text input), and Tanggal Kembali (text input).
- Buttons:** Simpan (button), Tambah Baru (button, highlighted with a blue border), and Hapus (button).
- Data Grid:** A table with columns: ID, Nama Anggota, Judul Buku, Tgl Pinjam, and Tgl Kembali. The grid currently contains no data.