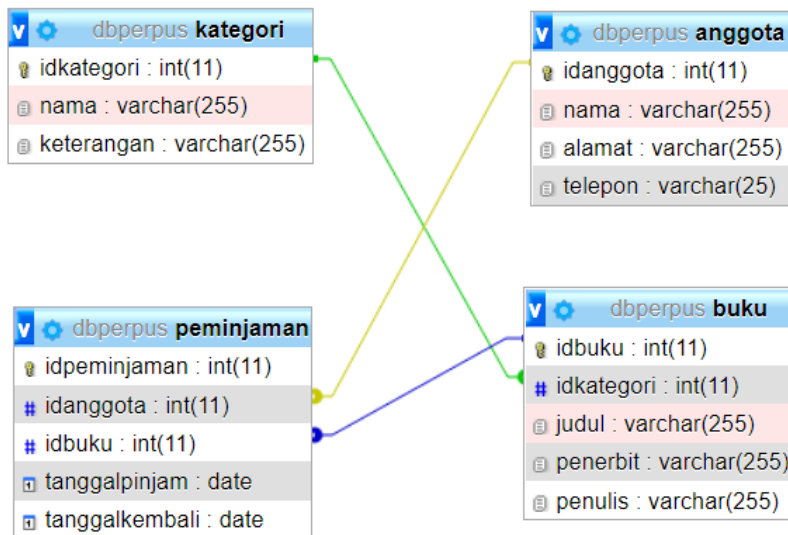


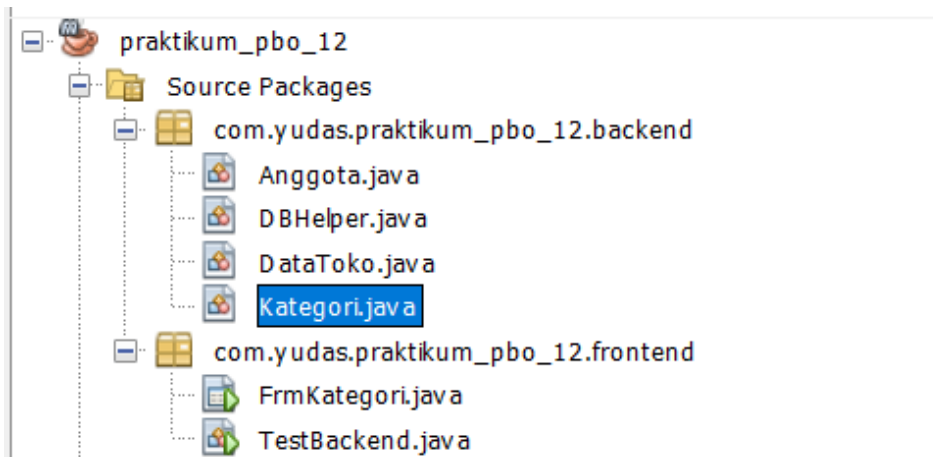


NAMA : YUDAS MALABI  
NIM : 2041720054  
KELAS : TI 2C  
MATERI : PRAKTIKUM PBO

### 3.1 Percobaan 1



### 3.2 Percobaan 2





NAMA : YUDAS MALABI  
NIM : 2041720054  
KELAS : TI 2C  
MATERI : PRAKTIKUM PBO

### 3.3 Percobaan 3

```
public class DBHelper {  
  
    private static Connection koneksi;  
  
    public static void bukaKoneksi() {  
        if (koneksi == null) {  
            try {  
                String url = "jdbc:mysql://localhost:3306/dbperpus";  
                String user = "root";  
                String password = "";  
                DriverManager.registerDriver(new com.mysql.jdbc.Driver());  
                koneksi = DriverManager.getConnection(url, user, password);  
            } catch (SQLException t) {  
                System.out.println("Error koneksi!");  
            }  
        }  
    }  
  
    public static int insertQueryGetId(String query) {  
        bukaKoneksi();  
        int num = 0;  
        int result = -1;  
  
        try {  
            Statement stmt = koneksi.createStatement();  
            num = stmt.executeUpdate(query, Statement.RETURN_GENERATED_KEYS);  
            ResultSet rs = stmt.getGeneratedKeys();  
  
            if (rs.next()) {  
                result = rs.getInt(1);  
            }  
  
            rs.close();  
            stmt.close();  
        } catch (Exception e) {  
            e.printStackTrace();  
            result = -1;  
        }  
  
        return result;  
    }  
}
```



NAMA : YUDAS MALABI  
NIM : 2041720054  
KELAS : TI 2C  
MATERI : PRAKTIKUM PBO

```
public static boolean executeQuery(String query) {  
    bukaKoneksi();  
    boolean result = false;  
  
    try {  
        Statement stmt = koneksi.createStatement();  
        stmt.executeUpdate(query);  
  
        result = true;  
  
        stmt.close();  
    } catch (Exception e) {  
        e.printStackTrace();  
    }  
  
    return result;  
}  
  
public static ResultSet selectQuery(String query) {  
    bukaKoneksi();  
    ResultSet rs = null;  
  
    try {  
        Statement stmt = koneksi.createStatement();  
        rs = stmt.executeQuery(query);  
    } catch (Exception e) {  
        e.printStackTrace();  
    }  
  
    return rs;  
}
```



NAMA : YUDAS MALABI  
NIM : 2041720054  
KELAS : TI 2C  
MATERI : PRAKTIKUM PBO

### Percobaan 3.4

```
public class Kategori {  
  
    private int idkategori;  
    private String nama;  
    private String keterangan;  
  
    public int getIdKategori() {  
        return idkategori;  
    }  
  
    public void setIdKategori(int idkategori) {  
        this.idkategori = idkategori;  
    }  
  
    public String getNama() {  
        return nama;  
    }  
  
    public void setNama(String nama) {  
        this.nama = nama;  
    }  
  
    public String getKeterangan() {  
        return keterangan;  
    }  
}
```



NAMA : YUDAS MALABI  
NIM : 2041720054  
KELAS : TI 2C  
MATERI : PRAKTIKUM PBO

```
public void setKeterangan(String keterangan) {  
    this.keterangan = keterangan;  
}  
  
public Kategori() {  
  
}  
  
public Kategori(String nama, String keterangan) {  
    this.nama = nama;  
    this.keterangan = keterangan;  
}  
  
public Kategori getById(int id) {  
    Kategori kat = new Kategori();  
    ResultSet rs = DBHelper.selectQuery("SELECT * FROM kategori "  
        + "WHERE idkategori = '" + id + "'");  
    try {  
        while (rs.next()) {  
            kat = new Kategori();  
            kat.setIdKategori(rs.getInt("idkategori"));  
            kat.setNama(rs.getString("nama"));  
            kat.setKeterangan(rs.getString("keterangan"));  
        }  
    } catch (Exception e) {  
        e.printStackTrace();  
    }  
    return kat;  
}
```



NAMA : YUDAS MALABI  
NIM : 2041720054  
KELAS : TI 2C  
MATERI : PRAKTIKUM PBO

```
public ArrayList<Kategori> getAll() {
    ArrayList<Kategori> ListKategori = new ArrayList();

    ResultSet rs = DBHelper.selectQuery("SELECT * FROM kategori");

    try {
        while (rs.next()) {
            Kategori kat = new Kategori();
            kat.setIdKategori(rs.getInt("idkategori"));
            kat.setNama(rs.getString("nama"));
            kat.setKeterangan(rs.getString("keterangan"));

            ListKategori.add(kat);
        }
    } catch (Exception e) {
        e.printStackTrace();
    }

    return ListKategori;
}

public ArrayList<Kategori> search(String keyword) {
    ArrayList<Kategori> ListKategori = new ArrayList();

    ResultSet rs = DBHelper.selectQuery("SELECT * FROM kategori WHERE "
        + "nama LIKE '%" + keyword + "%' "
        + "OR keterangan LIKE '%" + keyword + "%'");

    try {
        while (rs.next()) {
            Kategori kat = new Kategori();
            kat.setIdKategori(rs.getInt("idkategori"));
            kat.setNama(rs.getString("nama"));
            kat.setKeterangan(rs.getString("keterangan"));

            ListKategori.add(kat);
        }
    } catch (Exception e) {
        e.printStackTrace();
    }

    return ListKategori;
}
```



NAMA : YUDAS MALABI  
NIM : 2041720054  
KELAS : TI 2C  
MATERI : PRAKTIKUM PBO

```
public void save() {  
    if (getById(idkategori).getIdKategori() == 0) {  
        String SQL = "INSERT INTO kategori (nama, keterangan) VALUES ("  
            + "'" + this.nama + "',"  
            + "'" + this.keterangan + "'" + "  
            + ")";  
        this.idkategori = DBHelper.insertQueryGetId(SQL);  
    } else {  
        String SQL = "UPDATE kategori SET "  
            + "nama = '" + this.nama + "',"  
            + "keterangan = '" + this.keterangan + "'" + "  
            + "WHERE idkategori = '" + this.idkategori + "'";  
        DBHelper.executeQuery(SQL);  
    }  
}  
  
public void delete() {  
    String SQL = "DELETE FROM kategori WHERE idkategori = '" + this.idkategori + "'";  
    DBHelper.executeQuery(SQL);  
}
```

## Percobaan 3.5

Output :

```
Output - Run (TestBackend) x  
Building praktikum_pbo_12 1.0-SNAPSHOT  
-----[ jar ]-----  
--- exec-maven-plugin:3.0.0:exec (default-cli) @ praktikum_pbo_12 ---  
Nama: Novel, Ket: Koleksi buku novel  
Nama: Referensi, Ket: Koleksi buku referensi ilmiah  
Nama: Referensi, Ket: Koleksi buku referensi ilmiah  
-----  
BUILD SUCCESS  
-----  
Total time: 1.440 s
```



NAMA : YUDAS MALABI  
NIM : 2041720054  
KELAS : TI 2C  
MATERI : PRAKTIKUM PBO

Server: 127.0.0.1 » Database: dbperpus » Table: kategori

**Browse** **Structure** **SQL** **Search** **Insert** **Export** **Import**

✓ Showing rows 0 - 1 (2 total, Query took 0.0007 seconds.)

```
SELECT * FROM `kategori`
```

☐ Show all | Number of rows: 25 ▼ Filter rows: Search this table Sort by key

+ Options

			idkategori	nama	keterangan
<input type="checkbox"/>	Edit	Copy	Delete	1	Novel Koleksi buku novel
<input type="checkbox"/>	Edit	Copy	Delete	2	Referensi Koleksi buku referensi ilmiah

1 Data akan berhasil masuk ke database





NAMA : YUDAS MALABI  
NIM : 2041720054  
KELAS : TI 2C  
MATERI : PRAKTIKUM PBO

### Percobaan 3.6

ID Kategori

Nama Kategori

Keterangan

Simpan

Tambah Baru

Hapus

Cari

Title 1	Title 2	Title 3	Title 4

1. Class Anggota :



NAMA : YUDAS MALABI  
NIM : 2041720054  
KELAS : TI 2C  
MATERI : PRAKTIKUM PBO

```
public class Anggota {  
  
    private int idanggota;  
    private String nama;  
    private String alamat;  
    private String telepon;  
  
    public int getIdanggota() {  
        return this.idanggota;  
    }  
  
    public void setIdAnggota(int idanggota) {  
        this.idanggota = idanggota;  
    }  
  
    public String getNama() {  
        return this.nama;  
    }  
  
    public void setNama(String nama) {  
        this.nama = nama;  
    }  
  
    public String getAlamat() {  
        return this.alamat;  
    }  
  
    public void setAlamat(String alamat) {  
        this.alamat = alamat;  
    }  
}
```



NAMA : YUDAS MALABI  
NIM : 2041720054  
KELAS : TI 2C  
MATERI : PRAKTIKUM PBO

```
public String getTelepon() {  
    return this.telepon;  
}  
  
public void setTelepon(String telepon) {  
    this.telepon = telepon;  
}  
  
public Anggota() {  
  
}  
  
public Anggota(String nama, String alamat, String telepon) {  
    this.nama = nama;  
    this.alamat = alamat;  
    this.telepon = telepon;  
}  
  
public Anggota getById(int id) {  
    Anggota anggota = new Anggota();  
    ResultSet rs = DBHelper.selectQuery("SELECT * FROM anggota "  
        + "WHERE idanggota = '" + id + "'");  
    try {  
        while (rs.next()) {  
            anggota = new Anggota();  
            anggota.setIdAnggota(rs.getInt("idanggota"));  
            anggota.setNama(rs.getString("nama"));  
            anggota.setAlamat(rs.getString("alamat"));  
            anggota.setTelepon(rs.getString("telepon"));  
        }  
    } catch (Exception e) {  
        e.printStackTrace();  
    }  
    return anggota;  
}
```



NAMA : YUDAS MALABI  
NIM : 2041720054  
KELAS : TI 2C  
MATERI : PRAKTIKUM PBO

```
public ArrayList<Anggota> getAll() {
    ArrayList<Anggota> ListAnggota = new ArrayList();

    ResultSet rs = DBHelper.selectQuery("SELECT * FROM anggota");

    try {
        while (rs.next()) {
            Anggota anggota = new Anggota();
            anggota.setIdAnggota(rs.getInt("idanggota"));
            anggota.setNama(rs.getString("nama"));
            anggota.setAlamat(rs.getString("alamat"));
            anggota.setTelepon(rs.getString("telepon"));

            ListAnggota.add(anggota);
        }
    } catch (Exception e) {
        e.printStackTrace();
    }

    return ListAnggota;
}

public ArrayList<Anggota> search(String keyword) {
    ArrayList<Anggota> ListAnggota = new ArrayList();

    ResultSet rs = DBHelper.selectQuery("SELECT * FROM anggota WHERE "
        + "nama LIKE '%" + keyword + "%' "
        + "OR alamat LIKE '%" + keyword + "%' "
        + "OR telepon LIKE '%" + keyword + "%'");

    try {
        while (rs.next()) {
            Anggota anggota = new Anggota();
            anggota.setIdAnggota(rs.getInt("idanggota"));
            anggota.setNama(rs.getString("nama"));
            anggota.setAlamat(rs.getString("alamat"));
            anggota.setTelepon(rs.getString("telepon"));

            ListAnggota.add(anggota);
        }
    } catch (Exception e) {
        e.printStackTrace();
    }

    return ListAnggota;
}
```



NAMA : YUDAS MALABI  
NIM : 2041720054  
KELAS : TI 2C  
MATERI : PRAKTIKUM PBO

```
public void save() {
    if (getById(idanggota).getIdanggota() == 0) {
        String SQL = "INSERT INTO anggota (nama, alamat, telepon) VALUES("
            + "'" + this.getNama() + "',"
            + "'" + this.getAlamat() + "',"
            + "'" + this.getTelepon() + "'"
            + ")";
        this.idanggota = DBHelper.insertQueryGetId(SQL);
    } else {
        String SQL = "UPDATE anggota SET "
            + "nama = '" + this.getNama() + "',"
            + "alamat = '" + this.getAlamat() + "',"
            + "telepon = '" + this.getTelepon() + "'"
            + "WHERE idanggota = '" + this.getIdanggota() + "'";
        DBHelper.executeQuery(SQL);
    }
}

public void delete() {
    String SQL = "DELETE FROM anggota WHERE idanggota = '" + this.getIdanggota() + "'";
    DBHelper.executeQuery(SQL);
}
```

2. Lakukan test pada class TestBackend pada package frontend.

```
public class TestAnggota {

    public static void main(String[] args) {
        Anggota kat1 = new Anggota("Yudas Malabi", "Kepanjen", "082257181297");
        Anggota kat2 = new Anggota("Arya Admaja", "Malang", "082257181296");
        Anggota kat3 = new Anggota("Ana Qonitah", "Malang", "082257181295");
        Anggota kat4 = new Anggota("Annisa Aulia", "Malang", "082257181294");

        // test insert
        kat1.save();
        kat2.save();
        kat3.save();
        kat4.save();

        // test update
        kat3.setAlamat("Politeknik Negeri Malang");
        kat3.save();

        // test delete
        kat4.delete();

        // test select all
        for (Anggota k : new Anggota().getAll()) {
            System.out.println("Nama: " + k.getNama() + ", Alamat: " + k.getAlamat() + ", Telepon: " + k.getTelepon());
        }

        // test search
        for (Anggota k : new Anggota().search("ilmiah")) {
            System.out.println("Nama: " + k.getNama() + ", Alamat: " + k.getAlamat() + ", Telepon: " + k.getTelepon());
        }
    }
}
```



NAMA : YUDAS MALABI  
NIM : 2041720054  
KELAS : TI 2C  
MATERI : PRAKTIKUM PBO

output :

```
] Building praktikum_pbo_12 1.0-SNAPSHOT
-----[ jar ]-----

] --- exec-maven-plugin:3.0.0:exec (default-cli) @ praktikum_pbo_12 ---
Nama: Yudas Malabi, Alamat: Kepanjen, Telepon: 082257181297
Nama: Arya Admaja, Alamat: Malang, Telepon: 082257181296
Nama: Ana Qonitah, Alamat: Politeknik Negeri Malang, Telepon: 082257181295
-----
BUILD SUCCESS
-----

Total time: 1.612 s
```

Server: 127.0.0.1 » Database: dbperpus » Table: anggota

Browse Structure SQL Search Insert Export Import Privileges Op

Showing rows 0 - 2 (3 total, Query took 0.0007 seconds.)

SELECT \* FROM `anggota`

☐ Show all | Number of rows: 25 | Filter rows: Search this table | Sort by key: None

+ Options

	idanggota	nama	alamat	telepon
<input type="checkbox"/> Edit Copy Delete	1	Yudas Malabi	Kepanjen	082257181297
<input type="checkbox"/> Edit Copy Delete	2	Arya Admaja	Malang	082257181296
<input type="checkbox"/> Edit Copy Delete	3	Ana Qonitah	Politeknik Negeri Malang	082257181295

☐ Check all | With selected: Edit Copy Delete Export

☐ Show all | Number of rows: 25 | Filter rows: Search this table | Sort by key: None

2 Data Anggota masuk ke database MySQL



NAMA : YUDAS MALABI  
NIM : 2041720054  
KELAS : TI 2C  
MATERI : PRAKTIKUM PBO

## Percobaan 3.7

FormAnggota :

The screenshot displays the NetBeans IDE with the 'FrmAnggota.java' file open. The interface is divided into two main panels: the Design view on the left and the Run view on the right.

**Design View (Left Panel):**

- Fields: ID Anggota, Nama Anggota, Alamat Anggota, Telepon Anggota.
- Buttons: Simpan, Tambah Baru, Hapus, Cari.
- Table with 4 columns: Title 1, Title 2, Title 3, Title 4.

**Run View (Right Panel):**

- Fields: ID Anggota (0), Nama Anggota, Alamat Anggota, Telepon Anggota.
- Buttons: Simpan, Tambah Baru, Hapus, Cari.
- Table with 3 columns: ID, Nama, Keterangan.

ID	Nama	Keterangan
1	Yudas Malabi	Kepanjen
2	Arya Admaja	Malang
3	Ana Qonitah	Politeknik Negeri Malang
5	Shine Devi Putri	Polinema



NAMA : YUDAS MALABI  
NIM : 2041720054  
KELAS : TI 2C  
MATERI : PRAKTIKUM PBO

### Percobaan 3.8

Class Buku :

```
* @author STRIX
*/
public class Buku {

    private int idBuku;
    private Kategori kategori = new Kategori();
    private String judul;
    private String penerbit;
    private String penulis;

    public int getIdBuku() {
        return idBuku;
    }

    public void setIdBuku(int idBuku) {
        this.idBuku = idBuku;
    }

    public Kategori getKategori() {
        return kategori;
    }

    public void setKategori(Kategori kategori) {
        this.kategori = kategori;
    }

    public String getJudul() {
        return judul;
    }

    public void setJudul(String judul) {
        this.judul = judul;
    }
}
```





NAMA : YUDAS MALABI  
NIM : 2041720054  
KELAS : TI 2C  
MATERI : PRAKTIKUM PBO

```
public String getPenerbit() {  
    return penerbit;  
}  
  
public void setPenerbit(String penerbit) {  
    this.penerbit = penerbit;  
}  
  
public String getPenulis() {  
    return penulis;  
}  
  
public void setPenulis(String penulis) {  
    this.penulis = penulis;  
}  
  
public Buku() {  
  
}  
  
public Buku(Kategori kategori, String judul, String penerbit, String penulis) {  
    this.kategori = kategori;  
    this.judul = judul;  
    this.penerbit = penerbit;  
    this.penulis = penulis;  
}
```



NAMA : YUDAS MALABI  
NIM : 2041720054  
KELAS : TI 2C  
MATERI : PRAKTIKUM PBO

```
public Buku getById(int id) {  
    Buku buku = new Buku();  
    ResultSet rs = DBHelper.selectQuery("SELECT "  
        + "b.idbuku AS idbuku,"  
        + "b.judul AS judul,"  
        + "b.penerbit AS penerbit,"  
        + "b.penulis AS penulis,"  
        + "k.idkategori AS idkategori,"  
        + "k.nama AS nama,"  
        + "k.keterangan AS keterangan"  
        + " FROM buku b LEFT JOIN kategori k ON b.idkategori = k.idkategori "  
        + "WHERE b.idbuku = '" + id + "'");  
    try {  
        while (rs.next()) {  
            buku = new Buku();  
            buku.setIdBuku(rs.getInt("idbuku"));  
            buku.getKategori().setIdKategori(rs.getInt("idkategori"));  
            buku.getKategori().setNama(rs.getString("nama"));  
            buku.getKategori().setKeterangan(rs.getString("keterangan"));  
            buku.setJudul(rs.getString("judul"));  
            buku.setPenerbit(rs.getString("penerbit"));  
            buku.setPenulis(rs.getString("penulis"));  
        }  
    } catch (Exception e) {  
        e.printStackTrace();  
    }  
    return buku;  
}
```



NAMA : YUDAS MALABI  
NIM : 2041720054  
KELAS : TI 2C  
MATERI : PRAKTIKUM PBO

```
public ArrayList<Buku> getAll() {  
    ArrayList<Buku> ListBuku = new ArrayList();  
  
    ResultSet rs = DBHelper.selectQuery("SELECT "  
        + "b.idbuku AS idbuku,"  
        + "b.judul AS judul,"  
        + "b.penerbit AS penerbit,"  
        + "b.penulis AS penulis,"  
        + "k.idkategori AS idkategori,"  
        + "k.nama AS nama,"  
        + "k.keterangan AS keterangan"  
        + " FROM buku b LEFT JOIN kategori k ON b.idkategori = k.idkategori ");  
  
    try {  
        while (rs.next()) {  
            Buku buku = new Buku();  
            buku.setIdBuku(rs.getInt("idbuku"));  
            buku.getKategori().setIdKategori(rs.getInt("idkategori"));  
            buku.getKategori().setNama(rs.getString("nama"));  
            buku.getKategori().setKeterangan(rs.getString("keterangan"));  
            buku.setJudul(rs.getString("judul"));  
            buku.setPenerbit(rs.getString("penerbit"));  
            buku.setPenulis(rs.getString("penulis"));  
  
            ListBuku.add(buku);  
        }  
    } catch (Exception e) {  
        e.printStackTrace();  
    }  
  
    return ListBuku;  
}
```



NAMA : YUDAS MALABI  
NIM : 2041720054  
KELAS : TI 2C  
MATERI : PRAKTIKUM PBO

```
public ArrayList<Buku> search(String keyword) {  
    ArrayList<Buku> ListBuku = new ArrayList();  
  
    ResultSet rs = DBHelper.selectQuery("SELECT "  
        + "b.idbuku AS idbuku,"  
        + "b.judul AS judul,"  
        + "b.penerbit AS penerbit,"  
        + "b.penulis AS penulis,"  
        + "k.idkategori AS idkategori,"  
        + "k.nama AS nama,"  
        + "k.keterangan AS keterangan"  
        + " FROM buku b LEFT JOIN kategori k ON b.idkategori = k.idkategori "  
        + "WHERE b.judul LIKE '%" + keyword + "%'"  
        + " OR b.penerbit LIKE '%" + keyword + "%'"  
        + " OR b.penulis LIKE '%" + keyword + "%'");  
  
    try {  
        while (rs.next()) {  
            Buku buku = new Buku();  
            buku.setIdBuku(rs.getInt("idbuku"));  
            buku.getKategori().setIdKategori(rs.getInt("idkategori"));  
            buku.getKategori().setName(rs.getString("nama"));  
            buku.getKategori().setKeterangan(rs.getString("keterangan"));  
            buku.setJudul(rs.getString("judul"));  
            buku.setPenerbit(rs.getString("penerbit"));  
            buku.setPenulis(rs.getString("penulis"));  
  
            ListBuku.add(buku);  
        }  
    } catch (Exception e) {  
        e.printStackTrace();  
    }  
  
    return ListBuku;  
}
```



NAMA : YUDAS MALABI  
NIM : 2041720054  
KELAS : TI 2C  
MATERI : PRAKTIKUM PBO

```
public void save() {  
    if (getById(idBuku).getIdBuku() == 0) {  
        String SQL = "INSERT INTO buku (judul, idkategori, penulis, penerbit) VALUES(" +  
            + "" + this.getJudul() + "," +  
            + "" + this.getKategori().getIdKategori() + "," +  
            + "" + this.getPenulis() + "," +  
            + "" + this.getPenerbit() + "" +  
            + ")";  
        this.idBuku = DBHelper.insertQueryGetId(SQL);  
    } else {  
        String SQL = "UPDATE buku SET "  
            + "judul = '" + this.getJudul() + "',"  
            + "idkategori = '" + this.getKategori().getIdKategori() + "',"  
            + "penulis = '" + this.getPenulis() + "',"  
            + "penerbit = '" + this.getPenerbit() + "'"  
            + "WHERE idbuku = '" + this.getIdBuku() + "'";  
        DBHelper.executeQuery(SQL);  
    }  
}  
  
public void delete() {  
    String SQL = "DELETE FROM buku where idbuku = '" + this.getIdBuku() + "'";  
    DBHelper.executeQuery(SQL);  
}
```

## FormBuku :

praktikum\_pbo\_12 - Apache NetBeans IDE 12.5

File Edit View Navigate Source Refactor Run Debug Profile Team Tools Window Help

Source Design History

To select multiple components in an area hold Shift and drag mouse over the components.

FormBuku.java X Buku.java X

FormBuku.java

ID Buku:

Kategori:

Judul:

Penerbit:

Penulis:

Simpan

Tambah Baru Hapus  Cari

Title 1	Title 2	Title 3	Title 4

FormBuku.java

ID Buku:

Kategori:

Judul:

Penerbit:

Penulis:

Simpan

Tambah Baru Hapus  Cari

ID	Kategori	Judul	Penulis	Penerbit
4	Novel	Timun Mas	Elex Media	Bang Supit
5	Referensi	Aljabar Linier	Alex Baldwin	Springer
6	Buku Fiksi	The Sphere	Michael Christ	Wayne Public



NAMA : YUDAS MALABI  
NIM : 2041720054  
KELAS : TI 2C  
MATERI : PRAKTIKUM PBO

## TUGAS

praktikum\_pbo\_12 - Apache NetBeans IDE 12.5

File Edit View Navigate Source Refactor Run Debug Profile Team Tools Window Help

<default config> 6526096

Source Design History

To change layout manager of a container use Set Layout submenu from its context menu.

Projects

Services

Files

FormPeminjaman.java x FormBuku.java x

FormPeminjaman.java

ID Anggota:  Cari Nama Anggota

ID Buku:  Cari Nama Buku

Tanggal Pinjam:  Format: YYYY/MM/DD

Tanggal kembali:  Format: YYYY/MM/DD

Simpan

Tambah Baru Hapus

Tide 1	Tide 2	Tide 3	Tide 4

FormBuku.java

ID:  3

ID Anggota:  2 Cari Yudas Malabi

ID Buku:  6 Cari Aljabar Linier

Tanggal Pinjam:  2021-11-20 Format: YYYYMM/DD

Tanggal kembali:  2021-11-20 Format: YYYYMM/DD

Simpan

Tambah Baru Hapus

ID	ID Anggota	ID Buku	Tanggal Pinjam	Tanggal Kembali
1	1	4	2021-11-18	2021-11-18
4	1	5	2021-11-18	2021-11-22
3	2	6	2021-11-20	2021-11-20

Swing Containers

Panel Tabbed Pane Split Pane Scroll Pane Desktop Pane InternalFrame Layered Pane

Controls

Button Toggle Button Check Box Button Group Combo Box List Text Area Scroll Bar Slider Formatted Field Password Field Spinner Text Pane Editor Pane Tree

Events

Code

btnTambahBaruActionPerformed