ACTIVITY PRAKTIKUM

Mata Praktikum : Rekayasa Perangkat Lunak 2

Kelas : 4IA06

Praktikum ke- : 3

Tanggal: 29 Oktober 2024

Materi : Konsep Model-View-Controller (MVC), Pembuatan Program dengan Konsep

MVC, Instalasi & Penerapan, dan Akses Database dengan JDBC

NPM : 51421517

Nama : William Devin Septianus Pranggono

Ketua Asisten :

Paraf Asisten :

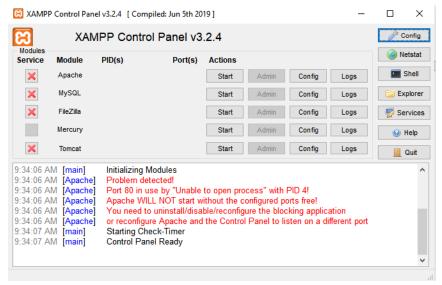
Nama Asisten : Gilbert Jefferson Faozato Mendrofa

Jumlah Lembar : 13 lembar

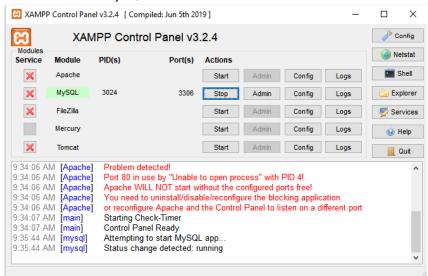
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2024

- 1. Cara membuat database mvc db pada XAMPP:
 - a. Buka XAMPP Control Panel



b. Aktifkan service MySQL



c. Klik Shell, lalu ketik mysql –u root

```
Administrator: XAMPP for Windows - mysql -u root

Setting environment for using XAMPP for Windows.

Jser@WILLIAM-DEVIN-P c:\xampp
# mysql -u root
Welcome to the MariaDB monitor. Commands end with ; or \g.
Your MariaDB connection id is 44
Server version: 10.4.17-MariaDB mariadb.org binary distribution

Copyright (c) 2000, 2018, Oracle, MariaDB Corporation Ab and others.

Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

MariaDB [(none)]>
```

d. Ketik CREATE DATABASE mvc db, lalu USE mvc db.

```
Administrator. XAMPP for Windows - mysql -u root

Setting environment for using XAMPP for Windows.

Usen@WILLIAM-DEVIN-P c:\xampp
# mysql -u root

Welcome to the MariaDB monitor. Commands end with ; or \g.
Your MariaDB connection id is 44

Server version: 10.4.17-MariaDB mariadb.org binary distribution

Copyright (c) 2000, 2018, Oracle, MariaDB Corporation Ab and others.

Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

MariaDB [(none)]> CREATE DATABASE mvc_db;
Query OK, 1 row affected (0.003 sec)

MariaDB [(none)]> USE mvc_db;
Database changed

MariaDB [mvc_db]> ___
```

e. Buat tabel mahasiswa dengan perintah berikut.

```
Setting environment for using XAMPP for Windows.

Usen@WILLIAM-DEVIN-P c:\xampp
# mysql -u root
Welcome to the MariaDB monitor. Commands end with; or \g.
Your MariaDB connection id is 45
Server version: 10.4.17-MariaDB mariadb.org binary distribution

Copyright (c) 2000, 2018, Oracle, MariaDB Corporation Ab and others.

Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

MariaDB [(none)]> USE mvc_db
Database changed

MariaDB [mvc_db]> CREATE TABLE `mahasiswa` (

-> `id' INT(11) NOT NULL,
-> `nama` VARCHAR(55) DEFAULT NULL,
-> `nama` VARCHAR(10) DEFAULT NULL,
-> `nems VARCHAR(10) DEFAULT NULL,
-> `semester' INT(3) NOT NULL) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4;
Query OK, 0 rows affected (0.408 sec)

MariaDB [mvc_db]>
```

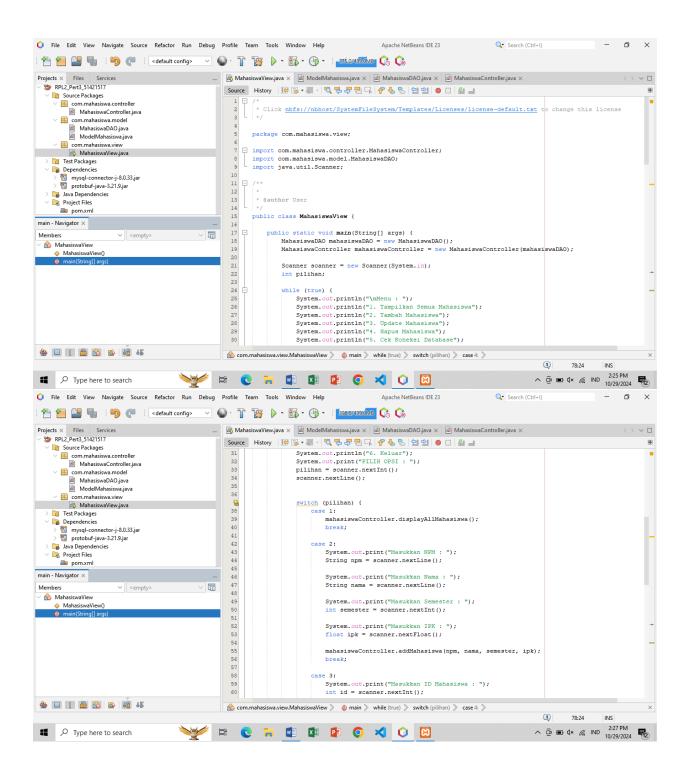
f. Tambahkan Primary Key pada tabel mahasiswa.

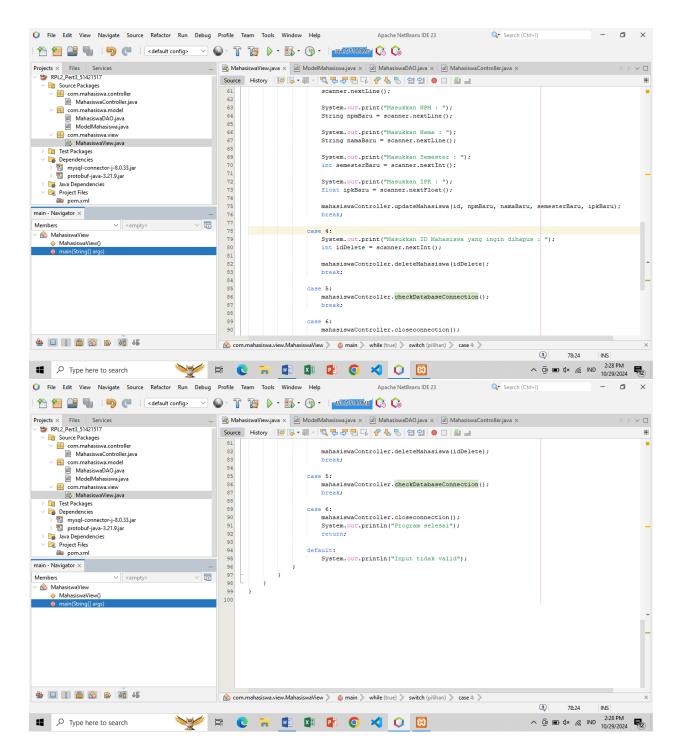
```
MariaDB [mvc_db]> ALTER TABLE `mahasiswa`
-> ADD PRIMARY KEY (`id`);
Query OK, 0 rows affected (0.866 sec)
Records: 0 Duplicates: 0 Warnings: 0
MariaDB [mvc_db]>
```

g. Modifikasi kolom id sehingga di-increment secara otomatis dimulai dari nomor 2.

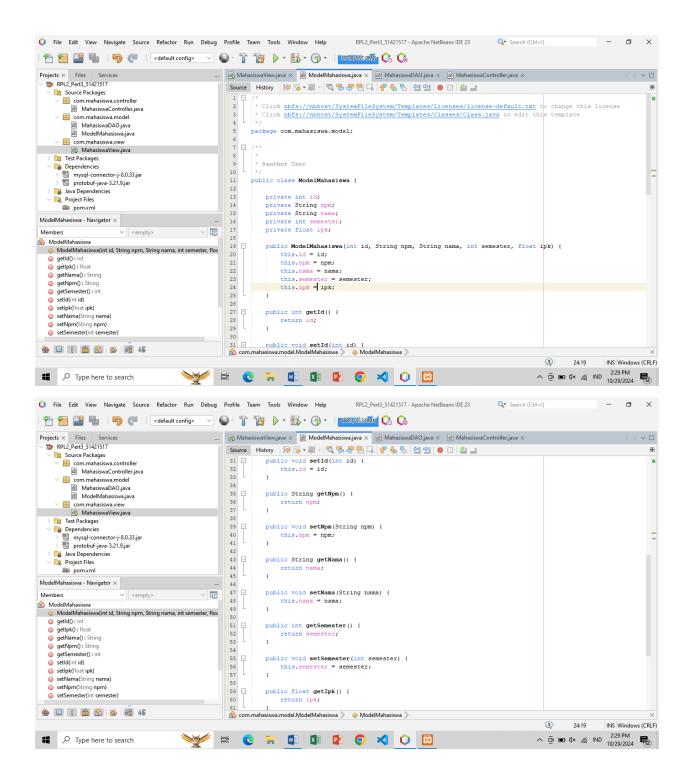
```
MariaDB [mvc_db]> ALTER TABLE `mahasiswa`
-> MODIFY `id` INT(11) NOT NULL AUTO_INCREMENT, AUTO_INCREMENT=2;
Query OK, 0 rows affected (0.977 sec)
Records: 0 Duplicates: 0 Warnings: 0
```

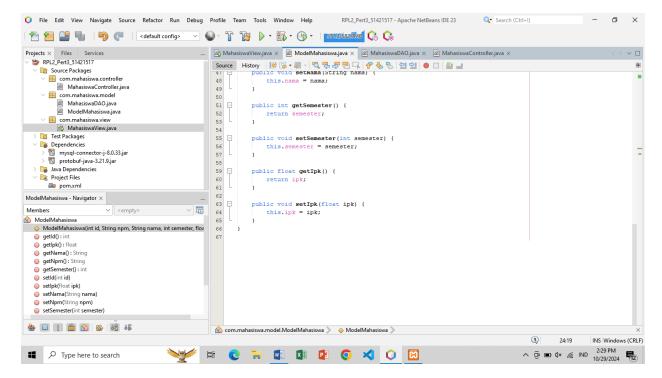
- 2. Screenshot activity:
 - a. Kode:
 - MahasiswaView.java



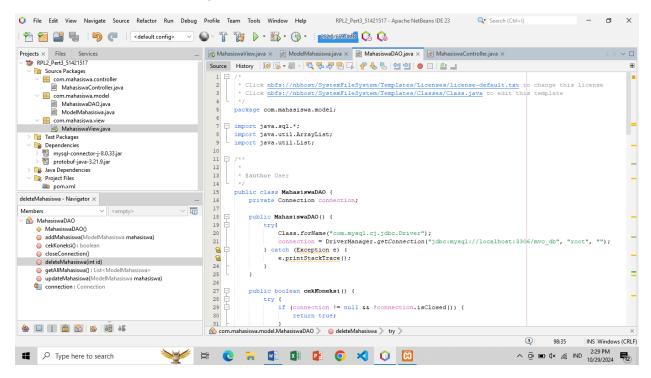


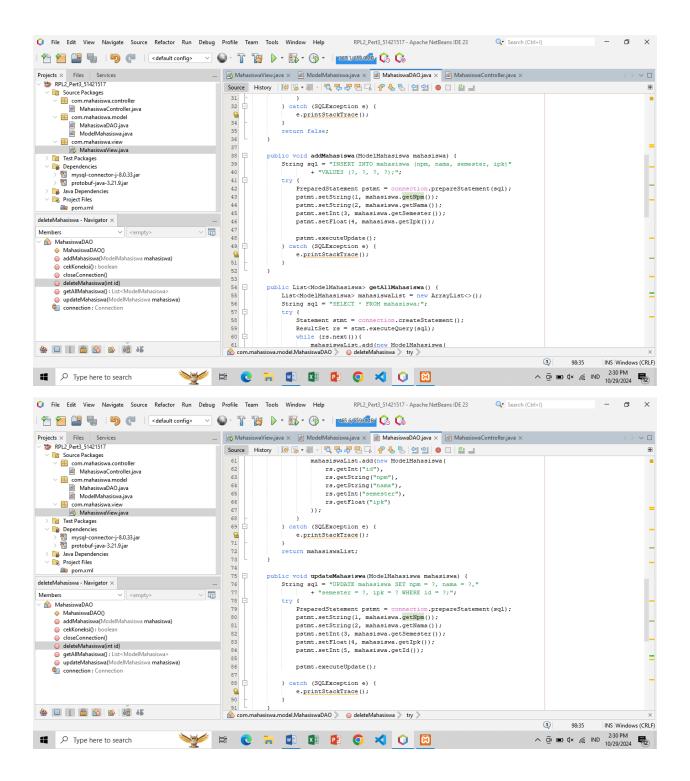
ModelMahasiswa.java

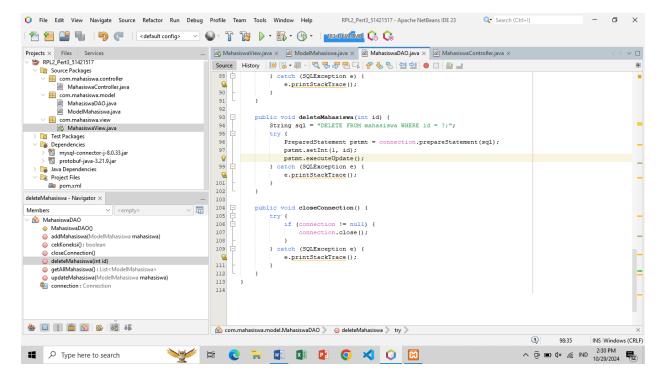




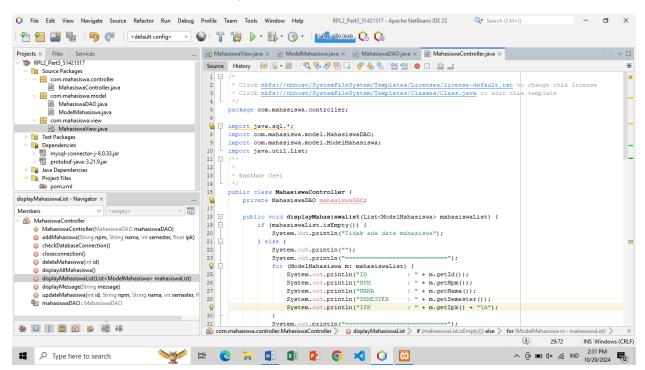
MahasiswaDAO.java

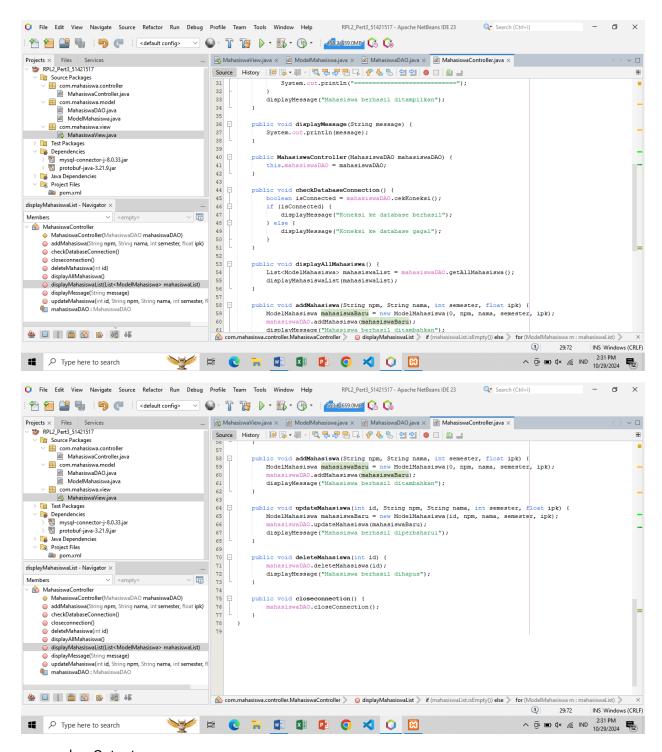






MahasiswaController.java





b. Output:

