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Modul 3

Praktikum Sistem Basis Data

Kegiatan

Jalankan server Apache & MySQL

XAMPP Control Panel v3.2.4 [Compiled: Jun 5th 2019]



XAMPP Control Panel v3.2.4

Config

Netstat

Shell

Explorer

Services

Help

Quit

Service	Module	PID(s)	Port(s)	Actions
<input type="checkbox"/>	Apache	11292 12128	80, 443	<div>Stop</div> <div>Admin</div> <div>Config</div> <div>Logs</div>
<input type="checkbox"/>	MySQL	9408	3306	<div>Stop</div> <div>Admin</div> <div>Config</div> <div>Logs</div>
<input type="checkbox"/>	FileZilla			<div>Start</div> <div>Admin</div> <div>Config</div> <div>Logs</div>
<input type="checkbox"/>	Mercury			<div>Start</div> <div>Admin</div> <div>Config</div> <div>Logs</div>
<input type="checkbox"/>	Tomcat			<div>Start</div> <div>Admin</div> <div>Config</div> <div>Logs</div>

06.37.14 [main]

06.37.14 [main]

06.37.14 [main]

06.37.14 [main]

06.37.14 [main]

06.37.14 [main]

06.37.14 [main]

06.37.14 [main]

06.37.15 [main]

06.37.49 [main]

06.37.49 [main]

06.37.50 [main]

06.37.50 [main]

06.38.47 [Apache]

06.38.47 [Apache]

06.38.49 [mysql]

06.38.54 [mysql]

Initializing Control Panel

Windows Version: Home 64-bit

XAMPP Version: 7.4.3

Control Panel Version: 3.2.4 [Compiled: Jun 5th 2019]

You are not running with administrator rights! This will work for most application stuff but whenever you do something with services there will be a security dialogue or things will break! So think about running this application with administrator rights!

XAMPP Installation Directory: "c:\xampp\"

Checking for prerequisites

All prerequisites found

Initializing Modules

Starting Check-Timer

Control Panel Ready

Attempting to start Apache app...

Status change detected: running

Attempting to start MySQL app...

Status change detected: running

Buka Command Prompt dan login sebagai root ke MySQL seperti langkah pada modul 1

```
Microsoft Windows [Version 10.0.18362.175]
(c) 2019 Microsoft Corporation. All rights reserved.

C:\Users\RISKA MEILINA PUSPA>cd\

C:\>cd C:\xampp\mysql\bin

C:\xampp\mysql\bin>mysql -u root -p
Enter password:
Welcome to the MariaDB monitor.  Commands end with ; or \g.
Your MariaDB connection id is 8
Server version: 10.4.11-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)]>
MariaDB [(none)]> show databases;
+-----+
| Database |
+-----+
| information_schema |
| mysql |
| performance_schema |
| phpmyadmin |
| test |
+-----+
5 rows in set (0.537 sec)
```

Buat database dengan perintah create database perbankan;

```
MariaDB [(none)]> create database perbankan;
Query OK, 1 row affected (1.207 sec)
```

Membuat tabel nasabah

```
MariaDB [perbankan]> CREATE TABLE nasabah(
  -> id_nasabah INTEGER PRIMARY KEY,
  -> nama_nasabah VARCHAR(45) NOT NULL,
  -> alamat_nasabah VARCHAR(255) NOT NULL
  -> );
Query OK, 0 rows affected (14.876 sec)
```

Membuat tabel cabang_bank

```
MariaDB [perbankan]> CREATE TABLE cabang_bank(
  -> kode_bank VARCHAR(20) PRIMARY KEY,
  -> nama_cabang VARCHAR(45) UNIQUE NOT NULL,
  -> alamat_cabang VARCHAR(255) NOT NULL
  -> );
Query OK, 0 rows affected (1.655 sec)
```

Membuat tabel rekening

```
MariaDB [perbankan]> CREATE TABLE rekening(  
  -> no_rekening INTEGER PRIMARY KEY,  
  -> kode_cabangFK VARCHAR(20) REFERENCES cabang_bank(kode_cabang)  
  -> ON DELETE CASCADE ON UPDATE CASCADE,  
  -> pin VARCHAR(20) DEFAULT '1234' NOT NULL,  
  -> saldo INTEGER DEFAULT 0 NOT NULL  
  -> );  
Query OK, 0 rows affected (2.910 sec)
```

Membuat tabel transaksi

```
MariaDB [perbankan]> CREATE TABLE transaksi(  
  -> no_transaksi SERIAL PRIMARY KEY,  
  -> id_nasabahFK INTEGER REFERENCES nasabah(id_nasabah)  
  -> ON DELETE SET NULL ON UPDATE CASCADE,  
  -> no_rekeningFK INTEGER REFERENCES rekening(no_rekening)  
  -> ON DELETE SET NULL ON UPDATE CASCADE,  
  -> jenis_transaksi VARCHAR(20) DEFAULT 'debit' NOT NULL,  
  -> tanggal DATETIME NOT NULL DEFAULT CURRENT_TIMESTAMP,  
  -> jumlah INTEGER NOT NULL CHECK(jumlah>=20000)  
  -> );  
Query OK, 0 rows affected (1.597 sec)
```

Membuat tabel nasabah_has_rekening

```
MariaDB [perbankan]> CREATE TABLE nasabah_has_rekening(  
  -> id_nasabahFK INTEGER REFERENCES nasabah(id_nasabah)  
  -> ON DELETE SET NULL ON UPDATE CASCADE,  
  -> no_rekeningFK INTEGER REFERENCES rekening(no_rekening)  
  -> ON DELETE SET NULL ON UPDATE CASCADE,  
  -> PRIMARY KEY(id_nasabahFK, no_rekeningFK)  
  -> );  
Query OK, 0 rows affected (0.772 sec)
```

Mengecek hasil pembuatan database dengan perintah show tables;

```
MariaDB [perbankan]> show tables;  
+-----+  
| Tables_in_perbankan |  
+-----+  
| cabang_bank         |  
| nasabah             |  
| nasabah_has_rekening |  
| rekening            |  
| transaksi           |  
+-----+  
5 rows in set (0.237 sec)
```

Melihat struktur tiap tabel dengan perintah describe nasabah;

```
MariaDB [perbankan]> describe nasabah;
```

Field	Type	Null	Key	Default	Extra
id_nasabah	int(11)	NO	PRI	NULL	
nama_nasabah	varchar(45)	NO		NULL	
alamat_nasabah	varchar(255)	NO		NULL	

```
3 rows in set (0.238 sec)
```

```
MariaDB [perbankan]>
```