

Nama : Wildani Danial Nafis  
Prodi : D-III Manajemen Informatika  
NIM : 2231750007

Soal No 8

```
mysql> ALTER TABLE mahasiswa ADD COLUMN agama varchar(10) AFTER kode_prodi;  
Query OK, 0 rows affected (0.02 sec)  
Records: 0 Duplicates: 0 Warnings: 0
```

Soal No 9

```
mysql> ALTER TABLE dosen ADD COLUMN alamat varchar(50) AFTER no_hp;  
Query OK, 0 rows affected (0.01 sec)  
Records: 0 Duplicates: 0 Warnings: 0
```

Soal No 10

```
mysql> INSERT INTO prodi (kode_prodi, nama_prodi) VALUES ('Pro001', 'Informatika');  
Query OK, 1 row affected (0.00 sec)  
  
mysql> INSERT INTO mahasiswa (nim, nama_mhs, jenis_kelamin, alamat, kota, asal_sma, no_hp, umur, kode_prodi, agama) VALUES ('31750007', 'Wildani Danial Nafis', 'L', 'Bululawang', 'Malang', 'Man 1 Malang', '09218722', '17', 'Pro001', 'Islam');  
Query OK, 1 row affected (0.00 sec)  
  
mysql> INSERT INTO mata_kuliah (mk_id, nama_mk, jumlah_jam, sks) VALUES ('Mk001', 'Basis Data', '5', '20');  
Query OK, 1 row affected (0.00 sec)  
  
mysql> INSERT INTO ruang (ruang_id, nama_ruang, kapasitas) VALUES ('R01', 'Ruang Praktek', '30');  
Query OK, 1 row affected (0.00 sec)  
  
mysql> INSERT INTO dosen (nidn, nama_dosen, status, jenis_kelamin, no_hp) VALUES ('872232221', 'Vana', 'PNS', 'P', '02189198');  
Query OK, 1 row affected (0.00 sec)  
  
mysql> INSERT INTO dosen (nidn, nama_dosen, status, jenis_kelamin, no_hp, alamat) VALUES ('872232221', 'Vana', 'PNS', 'P', '02189198', 'Medan');  
Query OK, 1 row affected (0.00 sec)  
  
mysql>
```

Soal No 11

```
mysql> SHOW TABLES;  
+-----+  
| Tables_in_db_polinema |  
+-----+  
| dosen  
| mahasiswa  
| mata_kuliah  
| prodi  
| ruang  
+-----+  
5 rows in set (0.00 sec)  
  
mysql>
```

Soal No 12

```
C:\Windows\system32\cmd.exe - mysql -u root -p  
  
mysql> SELECT * FROM dosen;  
+-----+-----+-----+-----+-----+  
| nidn | nama_dosen | status | jenis_kelamin | no_hp | alamat |  
+-----+-----+-----+-----+-----+  
| 872232221 | Vana | PNS | P | 02189198 | Medan |  
+-----+-----+-----+-----+-----+  
1 row in set (0.01 sec)  
  
mysql> SELECT * FROM mahasiswa;  
+-----+-----+-----+-----+-----+-----+-----+  
| nim | nama_mhs | jenis_kelamin | alamat | kota | asal_sma | no_hp | umur | kode_prodi | agama |  
+-----+-----+-----+-----+-----+-----+-----+  
| 31750007 | Wildani Danial Nafis | L | Bululawang | Malang | Man 1 Malang | 09218722 | 17 | Pro001 | Islam |  
+-----+-----+-----+-----+-----+-----+-----+  
1 row in set (0.01 sec)  
  
mysql> SELECT * FROM mata_kuliah;  
+-----+-----+-----+  
| mk_id | nama_mk | jumlah_jam | sks |  
+-----+-----+-----+  
| Mk001 | Basis Data | 5.00 | 20 |  
+-----+-----+-----+  
1 row in set (0.00 sec)  
  
mysql> SELECT * FROM prodi;  
+-----+-----+  
| kode_prodi | nama_prodi |  
+-----+-----+  
| Pro001 | Informatika |  
+-----+-----+  
1 row in set (0.01 sec)  
  
mysql> SELECT * FROM ruang;  
+-----+-----+-----+  
| ruang_id | nama_ruang | kapasitas |  
+-----+-----+-----+  
| R01 | Ruang Praktek | 30 |  
+-----+-----+-----+  
1 row in set (0.00 sec)  
  
mysql>
```

29°C  
Berawan

Search

ENG US 18:29 13/05/2023

## No. 13

```
mysql> DESC mahasiswa;
```

Field	Type	Null	Key	Default	Extra
nim	int	NO	PRI	NULL	
nama_mhs	varchar(50)	YES		NULL	
jenis_kelamin	enum('L','P')	YES		L	
alamat	varchar(50)	YES		NULL	
kota	varchar(20)	YES		malang	
no_hp	varchar(12)	YES		NULL	
umur	int	YES		NULL	
kode_prodi	char(6)	YES	MUL	NULL	
agama	varchar(10)	YES		NULL	

```
9 rows in set (0.02 sec)

mysql>
```

## No. 14

```
mysql> ALTER TABLE mahasiswa DROP COLUMN asal_sma;
Query OK, 0 rows affected (0.02 sec)
Records: 0 Duplicates: 0 Warnings: 0

mysql>
```

## Tugas No. 1

```
C:\Windows\system32\cmd.exe - mysql -u root -p
Microsoft Windows [Version 10.0.22000.1817]
(c) Microsoft Corporation. All rights reserved.

C:\Users\WILDANII>cd C:\xampp\mysql\bin
C:\xampp\mysql\bin>mysql -u root -p
Enter password:
Welcome to the MySQL monitor.  Commands end with ; or \g.
Your MySQL connection id is 412
Server version: 8.0.33 MySQL Community Server - GPL

Copyright (c) 2000, 2023, Oracle and/or its affiliates.

Oracle is a registered trademark of Oracle Corporation and/or its
affiliates. Other names may be trademarks of their respective
owners.

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

mysql> SHOW DATABASES;
+-----+
| Database |
+-----+
| db_polinema |
| information_schema |
| mysql |
| performance_schema |
| phpmyadmin |
| praktikumdb |
| sys |
+-----+
7 rows in set (0.00 sec)

mysql> CREATE DATABASE db_akademik;
Query OK, 1 row affected (0.00 sec)

mysql> CREATE TABLE Mahasiswa (No_Mhs int(7) primary key, Nama_mhs varchar(50) NOT NULL);
ERROR 1046 (3D000): No database selected
mysql> USE db_akademik;
Database changed
mysql> CREATE TABLE Mahasiswa (No_Mhs int(7) primary key, Nama_mhs varchar(50) NOT NULL);
Query OK, 0 rows affected, 1 warning (0.02 sec)
```

Taskbar: 27°C Berawan, 16:29 11/05/2023

```
C:\Windows\system32\cmd.exe - mysql -u root -p

mysql> CREATE TABLE Mata_Kuliah (Kd_MK varchar(5) primary key, Nama_MK varchar(50) NOT NULL);
Query OK, 0 rows affected (0.01 sec)

mysql> CREATE TABLE nilai (No_Mhs int(7), Kode_MK varchar(5));
Query OK, 0 rows affected, 1 warning (0.01 sec)

mysql> ALTER TABLE Mahasiswa ADD COLUMN Jurusan enum('MI','TI') default 'MI' AFTER Nama_mhs;
Query OK, 0 rows affected (0.01 sec)
Records: 0 Duplicates: 0 Warnings: 0

mysql> CREATE TABLE Dosen (Kd_Dosen varchar(4) primary key, Nama_Dosen varchar(50) NOT NULL);
Query OK, 0 rows affected (0.02 sec)

mysql> ALTER TABLE Mata_Kuliah ADD COLUMN Kode_Dosen varchar(4) AFTER Nama_MK;
Query OK, 0 rows affected (0.01 sec)
Records: 0 Duplicates: 0 Warnings: 0

mysql> ALTER TABLE Mata_Kuliah ADD CONSTRAINT fk_kd_dosen FOREIGN KEY (Kode_Dosen) REFERENCES Dosen(Kd_Dosen);
Query OK, 0 rows affected (0.06 sec)
Records: 0 Duplicates: 0 Warnings: 0

mysql> ALTER TABLE nilai ADD CONSTRAINT fk_no_mhs FOREIGN KEY (No_Mhs) REFERENCES Mahasiswa(No_Mhs);
Query OK, 0 rows affected (0.06 sec)
Records: 0 Duplicates: 0 Warnings: 0

mysql> ALTER TABLE nilai ADD CONSTRAINT fk_kode_mk FOREIGN KEY (Kode_MK) REFERENCES Mata_Kuliah(Kd_MK);
Query OK, 0 rows affected (0.06 sec)
Records: 0 Duplicates: 0 Warnings: 0

mysql> ALTER TABLE nilai ADD COLUMN nilai FLOAT(5,2) AFTER Kode_MK;
Query OK, 0 rows affected, 1 warning (0.02 sec)
Records: 0 Duplicates: 0 Warnings: 1

mysql>
```

```
C:\Windows\system32\cmd.exe - mysql -u root -p

mysql> USE db_akademik;
Database changed
mysql> SHOW TABLES;

+-----+
| Tables_in_db_akademik |
+-----+
| dosen                  |
| mahasiswa              |
| mata_kuliah            |
| nilai                  |
+-----+
4 rows in set (0.00 sec)

mysql> SELECT * FROM dosen;

+-----+-----+
| Kd_Dosen | Nama_Dosen |
+-----+-----+
| B104     | Ati        |
| B105     | Dita       |
| C102     | Leo        |
+-----+-----+
3 rows in set (0.01 sec)

mysql> SELECT * FROM mahasiswa;

+-----+-----+-----+
| No_Mhs | Nama_mhs | Jurusan |
+-----+-----+-----+
| 1921001 | Aminah   | MI       |
| 1921002 | Budiman  | MI       |
| 1921003 | Carina   | MI       |
| 1921004 | Della    | TI       |
| 1921005 | Firda    | TI       |
+-----+-----+-----+
5 rows in set (0.01 sec)

mysql> SELECT * FROM mata_kuliah;

+-----+-----+-----+
| Kd_MK | Nama_MK      | Kode_Dosen |
+-----+-----+-----+
| MI350 | Basis Data   | B104        |
| MI465 | Pemrograman | B105        |
| TI201 | Mobile       | C102        |
+-----+-----+-----+
```

```
C:\Windows\system32\cmd.exe - mysql -u root -p

+-----+
| B104  | | Ati   | |
| B105  | | Dita  | |
| C102  | | Leo   | |
+-----+
3 rows in set (0.01 sec)

mysql> SELECT * FROM mahasiswa;
+-----+
| No_Mhs | Nama_mhs | Jurusan |
+-----+
| 1921001 | Aminah   | MI       |
| 1921002 | Budiman  | MI       |
| 1921003 | Carina   | MI       |
| 1921004 | Della    | TI       |
| 1921005 | Firda    | TI       |
+-----+
5 rows in set (0.01 sec)

mysql> SELECT * FROM mata_kuliah;
+-----+
| Kd_MK | Nama_MK | Kode_Dosen |
+-----+
| MI350 | Basis Data | B104       |
| MI465 | Pemrograman | B105       |
| TI201 | Mobile     | C102       |
+-----+
3 rows in set (0.00 sec)

mysql> SELECT * FROM nilai;
+-----+
| No_Mhs | Kode_MK | nilai |
+-----+
| 1921001 | MI350   | 85.00 |
| 1921002 | MI465   | 87.00 |
| 1921003 | MI465   | 85.00 |
| 1921004 | TI201   | 78.00 |
| 1921005 | TI201   | 80.00 |
+-----+
5 rows in set (0.00 sec)

mysql>
```

## Tugas No. 2

```
C:\Windows\system32\cmd.exe - mysql -u root -p
Microsoft Windows [Version 10.0.22000.1817]
(c) Microsoft Corporation. All rights reserved.

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

C:\xampp\mysql\bin>mysql -u root -p
Enter password:
Welcome to the MySQL monitor.  Commands end with ; or \g.
Your MySQL connection id is 681
Server version: 8.0.33 MySQL Community Server - GPL

Copyright (c) 2000, 2023, Oracle and/or its affiliates.

Oracle is a registered trademark of Oracle Corporation and/or its
affiliates. Other names may be trademarks of their respective
owners.

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

mysql> SHOW DATABASES;
+-----+
| Database |
+-----+
| db_akademik |
| db_polinema |
| information_schema |
| mysql |
| performance_schema |
| phpmyadmin |
| praktikumdb |
| sys |
+-----+
8 rows in set (0.00 sec)

mysql> CREATE DATABASE db_pegawai;
Query OK, 1 row affected (0.01 sec)

mysql> USE db_pegawai;
Database changed
mysql> CREATE TABLE Pegawai (Nopegawai varchar(5) primary key, NamaPegawai varchar(50) NOT NULL);
Query OK, 0 rows affected (0.02 sec)

mysql> CREATE TABLE Golongan (Golongan varchar(2) primary key);
```

```
C:\Windows\system32\cmd.exe - mysql -u root -p
mysql> USE db_pegawai;
Database changed
mysql> CREATE TABLE Pegawai (NoPegawai varchar(5) primary key, NamaPegawai varchar(50) NOT NULL);
Query OK, 0 rows affected (0.02 sec)

mysql> CREATE TABLE Golongan (Golongan varchar(2) primary key);
Query OK, 0 rows affected (0.02 sec)

mysql> CREATE TABLE Proyek (Noprojek varchar(5) primary key);
Query OK, 0 rows affected (0.02 sec)

mysql> CREATE TABLE Proyekpegawai (Noprojek varchar(5) NOT NULL);
Query OK, 0 rows affected (0.01 sec)

mysql> ALTER TABLE Proyekpegawai ADD CONSTRAINT fk_noprojek FOREIGN KEY (Noprojek) REFERENCES Proyek(Noprojek);
Query OK, 0 rows affected (0.07 sec)
Records: 0 Duplicates: 0 Warnings: 0

mysql> ALTER TABLE Pegawai ADD COLUMN Golongan varchar(2) AFTER NamaPegawai;
Query OK, 0 rows affected (0.01 sec)
Records: 0 Duplicates: 0 Warnings: 0

mysql> ALTER TABLE Pegawai ADD CONSTRAINT fk_golongan FOREIGN KEY (Golongan) REFERENCES Golongan(Golongan);
Query OK, 0 rows affected (0.06 sec)
Records: 0 Duplicates: 0 Warnings: 0

mysql> ALTER TABLE Golongan ADD COLUMN BesarGaji int(10) AFTER Golongan;
Query OK, 0 rows affected, 1 warning (0.01 sec)
Records: 0 Duplicates: 0 Warnings: 1

mysql> ALTER TABLE Proyek ADD COLUMN NamaProyek varchar(50) AFTER Noprojek;
Query OK, 0 rows affected (0.02 sec)
Records: 0 Duplicates: 0 Warnings: 0

mysql> ALTER TABLE Proyekpegawai ADD COLUMN NoPegawai varchar(5) AFTER Noprojek;
Query OK, 0 rows affected (0.01 sec)
Records: 0 Duplicates: 0 Warnings: 0

mysql> ALTER TABLE Proyekpegawai ADD CONSTRAINT fk_nopegawai FOREIGN KEY (NoPegawai) REFERENCES Pegawai(NoPegawai);
Query OK, 0 rows affected (0.06 sec)
Records: 0 Duplicates: 0 Warnings: 0

mysql>
```

```
C:\Windows\system32\cmd.exe - mysql -u root -p
mysql> USE db_pegawai;
Database changed
mysql> SHOW TABLES;
+-----+
| Tables_in_db_pegawai |
+-----+
| golongan              |
| pegawai               |
| proyek                |
| proyekpegawai         |
+-----+
4 rows in set (0.00 sec)

mysql> SELECT * FROM golongan;
+-----+
| Golongan | BesarGaji |
+-----+
| A        | 1000000   |
| B        | 900000    |
| C        | 750000    |
| D        | 500000    |
+-----+
4 rows in set (0.01 sec)

mysql> SELECT * FROM pegawai;
+-----+
| NoPegawai | NamaPegawai | Golongan |
+-----+
| Peg01    | Anton      | A        |
| Peg02    | Paula     | B        |
| Peg03    | Daniar    | C        |
| Peg04    | Lubis     | C        |
| Peg05    | Koko      | C        |
| Peg06    | Yuni      | C        |
| Peg07    | Keni      | B        |
| Peg08    | Sofi      | B        |
| Peg12    | Sita      | B        |
| Peg14    | Yusni     | B        |
| Peg15    | Udin      | D        |
| Peg16    | Didit     | D        |
| Peg17    | Dani      | D        |
+-----+
13 rows in set (0.00 sec)
```

```
C:\Windows\system32\cmd.exe - mysql -u root -p

mysql> SELECT * FROM proyek;
+-----+-----+
| Noprojek | NamaProyek |
+-----+-----+
| NP001    | BRR        |
| NP002    | PEHDA      |
| NP003    | CBR        |
| NP004    | ASK        |
| NP005    | OB         |
+-----+-----+
5 rows in set (0.01 sec)

mysql> SELECT * FROM proyekpegawai;
+-----+-----+
| Noprojek | NoPegawai |
+-----+-----+
| NP001    | Peg01     |
| NP001    | Peg02     |
| NP001    | Peg05     |
| NP002    | Peg01     |
| NP002    | Peg12     |
| NP002    | Peg14     |
| NP003    | Peg02     |
| NP003    | Peg03     |
| NP003    | Peg04     |
| NP004    | Peg07     |
| NP004    | Peg08     |
| NP004    | Peg06     |
| NP005    | Peg15     |
| NP005    | Peg16     |
| NP005    | Peg17     |
+-----+-----+
15 rows in set (0.00 sec)

mysql> C:\xampp\mysql\bin
```