

Praktikum 3

```
mysql> CREATE TABLE dosen (kd_ds VARCHAR (10) PRIMARY KEY, nama VARCHAR (50));
Query OK, 0 rows affected (0.02 sec)

mysql> CREATE TABLE mahasiswa (nim varchar(10) NOT NULL,nama VARCHAR(50),jenis_kelamin VARCHAR (10) ,tanggal_lahir VARCHAR (10),jalan VARCHAR (10),kota VARCHAR (10),kode_pos VARCHAR (10),no_hp VARCHAR (11),kd_ds VARCHAR (10));
Query OK, 0 rows affected (0.01 sec)

mysql> desc mahasiswa; desc dosen;
+-----+-----+
| Field | Type | Null | Key | Default | Extra |
+-----+-----+
| nim    | varchar(10) | NO | | NULL | |
| nama   | varchar(50) | YES | | NULL | |
| jenis_kelamin | varchar(10) | YES | | NULL | |
| tanggal_lahir | varchar(10) | YES | | NULL | |
| jalan  | varchar(10) | YES | | NULL | |
| kota   | varchar(10) | YES | | NULL | |
| kode_pos | varchar(10) | YES | | NULL | |
| no_hp  | varchar(11) | YES | | NULL | |
| kd_ds  | varchar(10) | YES | | NULL | |
+-----+-----+
9 rows in set (0.01 sec)

+-----+-----+
| Field | Type | Null | Key | Default | Extra |
+-----+-----+
| kd_ds | varchar(10) | NO | PRI | NULL | |
| nama  | varchar(50) | YES | | NULL | |
+-----+-----+
2 rows in set (0.00 sec)
```

```
mysql> select *from mahasiswa; select *from dosen;
+-----+-----+-----+-----+-----+-----+-----+-----+-----+
| nim    | nama    | jenis_kelamin | tanggal_lahir | jalan    | kota    | kode_pos | no_hp    | kd_ds    |
+-----+-----+-----+-----+-----+-----+-----+-----+-----+
| 312210467 | Idris   | Laki laki    | 2000_01_01    | kalimalang | Bekasi  | 17520    | 0878498051 | DS001    |
| 312210468 | Syahrudin | Laki laki    | 2001_01_01    | kalimalang | Bekasi  | 17520    | 08975047297 | DS002    |
+-----+-----+-----+-----+-----+-----+-----+-----+-----+
2 rows in set (0.00 sec)

+-----+-----+
| kd_ds | nama    |
+-----+-----+
| DS001 | Ahmad   |
| DS002 | Hamzah  |
+-----+-----+
2 rows in set (0.00 sec)
```

```
mysql> delete from dosen where kd_ds = 'DS001';
Query OK, 1 row affected (0.00 sec)
```

```
mysql> select *from dosen;
+-----+-----+
| kd_ds | nama    |
+-----+-----+
| DS002 | Hamzah  |
+-----+-----+
1 row in set (0.00 sec)
```

```
mysql> alter table mahasiswa add constraint fk_mahasiswa_dosen foreign key (kd_ds) references dosen (kd_ds) on update cascade on delete restrict;
Query OK, 0 rows affected (0.04 sec)
Records: 0 Duplicates: 0 Warnings: 0
```

```
mysql> desc mahasiswa;
+-----+-----+
| Field | Type | Null | Key | Default | Extra |
+-----+-----+
| nim    | varchar(10) | NO | | NULL | |
| nama   | varchar(50) | YES | | NULL | |
| jenis_kelamin | varchar(10) | YES | | NULL | |
| tanggal_lahir | varchar(10) | YES | | NULL | |
| jalan  | varchar(10) | YES | | NULL | |
| kota   | varchar(10) | YES | | NULL | |
| kode_pos | varchar(10) | YES | | NULL | |
| no_hp  | varchar(11) | YES | | NULL | |
| kd_ds  | varchar(10) | YES | MUL | NULL | |
+-----+-----+
9 rows in set (0.00 sec)
```

```
mysql> UPDATE dosen SET kd_ds = 'DS001' WHERE kd_ds = 'DS002';
Query OK, 1 row affected (0.00 sec)
Rows matched: 1  Changed: 1  Warnings: 0
```

```
mysql> select *from dosen;
+-----+-----+
| kd_ds | nama  |
+-----+-----+
| DS001 | Hamzah |
+-----+-----+
1 row in set (0.00 sec)
```

```
mysql> UPDATE dosen SET kd_ds = 'DS001' WHERE kd_ds = 'DS002';
Query OK, 1 row affected (0.00 sec)
Rows matched: 1  Changed: 1  Warnings: 0
```

```
mysql> select *from dosen;
+-----+-----+
| kd_ds | nama  |
+-----+-----+
| DS001 | Hamzah |
+-----+-----+
1 row in set (0.00 sec)
```

```
mysql> DELETE FROM dosen;
Query OK, 1 row affected (0.00 sec)
```

```
mysql> select *from dosen;
Empty set (0.00 sec)
```

```
mysql>
```

```
mysql> alter table mahasiswa add constraint fk_mahasiswa_dosen foreign key (kd_ds) references dosen (kd_ds) on update cascade on delete set null;
Query OK, 0 rows affected (0.04 sec)
Records: 0  Duplicates: 0  Warnings: 0
```

```
mysql> desc mahasiswa;
+-----+-----+-----+-----+-----+-----+
| Field      | Type      | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| nim        | varchar(10) | NO   |     | NULL    |       |
| nama       | varchar(50) | YES  |     | NULL    |       |
| jenis_kelamin | varchar(10) | YES  |     | NULL    |       |
| tanggal_lahir | varchar(10) | YES  |     | NULL    |       |
| jalan      | varchar(10) | YES  |     | NULL    |       |
| kota       | varchar(10) | YES  |     | NULL    |       |
| kode_pos   | varchar(10) | YES  |     | NULL    |       |
| no_hp      | varchar(11) | YES  |     | NULL    |       |
| kd_ds      | varchar(10) | YES  | MUL | NULL    |       |
+-----+-----+-----+-----+-----+-----+
9 rows in set (0.00 sec)
```

```
MySQL 8.0 Command Line Cli x + v
mysql> CREATE TABLE dosen (kd_ds VARCHAR (10) PRIMARY KEY, nama VARCHAR (50));
Query OK, 0 rows affected (0.02 sec)

mysql> CREATE TABLE mahasiswa (nim varchar(10) NOT NULL,nama VARCHAR(50),jenis_kelamin VARCHAR (10) ,tanggal_lahir VARCHAR (10),jalan VARCHAR (10),kota VARCHAR (10),kode_pos VARCHAR (10),no_hp VARCHAR (11),kd_ds VARCHAR (10));
Query OK, 0 rows affected (0.02 sec)

mysql> INSERT INTO dosen (kd_ds, nama) values ('DS001','Ahmad'), ('DS002','Hamzah');
Query OK, 2 rows affected (0.00 sec)
Records: 2 Duplicates: 0 Warnings: 0

mysql> INSERT INTO mahasiswa (nim, nama, jenis_kelamin, tanggal_lahir, jalan, kota, kode_pos, no_hp, kd_ds) VALUES('312210478','Tatia','Perempuan','2000_01_01','kalimalang','Bekasi','17520','0878498051','DS001'), ('312210499','Anggreani','Perempuan','2001_01_01','kalimalang','Bekasi','17520','08975047297','DS002');
Query OK, 2 rows affected (0.01 sec)
Records: 2 Duplicates: 0 Warnings: 0

mysql> select *from mahasiswa; select *from dosen;

+-----+-----+-----+-----+-----+-----+-----+-----+-----+
| nim      | nama      | jenis_kelamin | tanggal_lahir | jalan      | kota      | kode_pos | no_hp      | kd_ds      |
+-----+-----+-----+-----+-----+-----+-----+-----+-----+
| 312210478 | Tatia     | Perempuan     | 2000_01_01     | kalimalang | Bekasi    | 17520    | 0878498051 | DS001      |
| 312210499 | Anggreani | Perempuan     | 2001_01_01     | kalimalang | Bekasi    | 17520    | 08975047297 | DS002      |
+-----+-----+-----+-----+-----+-----+-----+-----+
2 rows in set (0.00 sec)

+-----+-----+
| kd_ds | nama |
+-----+-----+
| DS001 | Ahmad |
| DS002 | Hamzah |
+-----+-----+
2 rows in set (0.00 sec)

mysql>
```