

Laporan Praktikum Sistem Basis Data

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Modul : 4

Praktikum

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~ : mysql — Konsole
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C dikowfa Deutani? ~
> /opt/lampp/bin/mysql -u root -p
Enter password:
Welcome to the MariaDB monitor.  Commands end with ; or \g.
Your MariaDB connection id is 18
Server version: 10.1.40-MariaDB Source distribution

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

MariaDB [(none)]> create database perbankan;
Query OK, 1 row affected (0.02 sec)

MariaDB [(none)]> use perbankan;
Database changed
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 (0.28 sec)

MariaDB [perbankan]> CREATE TABLE cabang_bank(
-> kode_cabang VARCHAR(20) PRIMARY KEY,
-> nama_cabang VARCHAR(45) UNIQUE NOT NULL,
-> alamat_cabang VARCHAR(255) NOT NULL,
-> );
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MariaDB server version for the right syntax to use near ')' at line 5
MariaDB [perbankan]> CREATE TABLE cabang_bank( kode_cabang VARCHAR(20) PRIMARY KEY, nama_cabang VARCHAR(45) UNIQUE NOT NULL, alamat_cabang VARCHAR(255) NOT NULL );
Query OK, 0 rows affected (0.30 sec)
```


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-> nama_cabang VARCHAR(45) UNIQUE NOT NULL,
-> alamat_cabang VARCHAR(255) NOT NULL,
-> );
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MariaDB server version fo
r the right syntax to use near ')' at line 5
MariaDB [perbankan]> CREATE TABLE cabang_bank( kode_cabang VARCHAR(20) PRIMARY KEY, nama_cabang VARCHAR(45) UNIQUE NOT NULL,
alamat_cabang VARCHAR(255) NOT NULL );
Query OK, 0 rows affected (0.30 sec)

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 (0.26 sec)

MariaDB [perbankan]> CREATE TABLE nasabah_has_rekening(
-> 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, jen
is_transaksi VARCHAR(20) DEFAULT 'debit' NOT NULL, tanggal DATETIME NOT NULL DEFAULT CURRENT_TIMESTAMP, jumlah INTEGER NOT NU
LL CHECK(jumlah>=20000) );
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MariaDB server version fo
r the right syntax to use near 'CREATE TABLE transaksi( no_transaksi SERIAL PRIMARY KEY, id_nasabahFK INTEGER RE' at line 2
MariaDB [perbankan]> CREATE TABLE nasabah_has_rekening(
-> id_nasabahFK INTEGER REFERENCES nasabah(id_nasabah) ON DELETE CASCADE ON UPDATE CASCADE,
-> no_rekeningFK INTEGER REFERENCES rekening(no_rekening) ON DELETE CASCADE ON UPDATE CASCADE,
-> PRIMARY KEY(id_nasabahFK, no_rekeningFK)
-> );
Query OK, 0 rows affected (0.31 sec)

MariaDB [perbankan]>

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MariaDB [perbankan]> show tables;
+-----+
| Tables_in_perbankan |
+-----+
| cabang_bank          |
| nasabah              |
| nasabah_has_rekening |
| transaksi            |
+-----+
4 rows in set (0.00 sec)

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 (0.00 sec)

MariaDB [perbankan]> describe transaksi;
+-----+-----+-----+-----+-----+-----+
| Field          | Type          | Null | Key | Default          | Extra          |
+-----+-----+-----+-----+-----+-----+
| no_transaksi   | bigint(20) unsigned | NO   | PRI | NULL             | auto_increment |
| id_nasabahFK   | int(11)        | YES  |     | NULL             |               |
| no_rekeningFK  | int(11)        | YES  |     | NULL             |               |
| jenis_transaksi | varchar(20)     | NO   |     | debit            |               |
| tanggal       | datetime       | NO   |     | CURRENT_TIMESTAMP |               |
| jumlah         | int(11)        | NO   |     | NULL             |               |
+-----+-----+-----+-----+-----+-----+
6 rows in set (0.01 sec)

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TUGAS

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- : mysql — Konsole

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MariaDB [(none)]> create database kuliah;
Query OK, 1 row affected (0.00 sec)

MariaDB [(none)]> use kuliah;
Database changed
MariaDB [kuliah]> CREATE TABLE mahasiswa(
  -> id_mahasiswa INTEGER PRIMARY KEY,
  -> nama_mahasiswa VARCHAR(45) NOT NULL,
  -> alamat_mahasiswa VARCHAR(255) NOT NULL,
  -> ttl_mahasiswa VARCHAR(50) NOT NULL
  -> );
Query OK, 0 rows affected (0.34 sec)

MariaDB [kuliah]> CREATE TABLE dosen(id_dosen INTEGER PRIMARY KEY,
  -> nama_dosen VARCHAR(45) NOT NULL,
  -> alamat_dosen VARCHAR(255) NOT NULL,
  -> ttl_dosen VARCHAR(50) NOT NULL,
  -> kode_dosen VARCHAR(15) NOT NULL
  -> );
Query OK, 0 rows affected (0.29 sec)

MariaDB [kuliah]> CREATE TABLE matakuliah(
  -> kode_matakuliah INTEGER PRIMARY KEY,
  -> nama_matakuliah VARCHAR(100) NOT NULL
  -> );
Query OK, 0 rows affected (0.27 sec)

MariaDB [kuliah]> CREATE TABLE ruangkelas(
  -> kode_ruangkelas INTEGER PRIMARY KEY,
  -> kapasitas_ruangkelas INTEGER NOT NULL
  -> );
Query OK, 0 rows affected (0.28 sec)
```



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~:mysql - Konsole
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MariaDB [kuliah]> CREATE TABLE mahasiswa_has_matakuliah(
-> id_mahasiswaFK INTEGER REFERENCES mahasiswa(id_mahasiswa) ON DELETE CASCADE ON UPDATE CASCADE,
-> kode_matakuliahFK INTEGER REFERENCES matakuliah(kode_matakuliah) ON DELETE CASCADE ON UPDATE CASCADE,
-> PRIMARY KEY(id_mahasiswaFK, kode_matakuliahFK)
-> );
Query OK, 0 rows affected (0.28 sec)

MariaDB [kuliah]> CREATE TABLE mahasiswa_has_dosen(
-> id_mahasiswaFK INTEGER REFERENCES mahasiswa(id_mahasiswa) ON DELETE CASCADE ON UPDATE CASCADE,
-> kode_dosenFK INTEGER REFERENCES dosen(kode_dosen) ON DELETE CASCADE ON UPDATE CASCADE,
-> PRIMARY KEY(id_mahasiswaFK, kode_dosenFK)
-> );
Query OK, 0 rows affected (0.29 sec)

MariaDB [kuliah]> show tables;
+-----+
| Tables_in_kuliah |
+-----+
| dosen             |
| mahasiswa         |
| mahasiswa_has_dosen |
| mahasiswa_has_matakuliah |
| matakuliah       |
| ruangkelas       |
+-----+
6 rows in set (0.00 sec)

MariaDB [kuliah]> describe dosen;
+-----+-----+-----+-----+-----+-----+
| Field      | Type      | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| id_dosen   | int(11)   | NO   | PRI | NULL     |       |
| nama_dosen | varchar(45)| NO   |     | NULL     |       |
| alamat_dosen | varchar(255)| NO   |     | NULL     |       |
| ttl_dosen  | varchar(50)| NO   |     | NULL     |       |
| kode_dosen | varchar(15)| NO   |     | NULL     |       |
+-----+-----+-----+-----+-----+-----+
5 rows in set (0.00 sec)

MariaDB [kuliah]> |
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```
~:mysql - Konsole
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MariaDB [kuliah]> describe dosen;
+-----+-----+-----+-----+-----+-----+
| Field      | Type      | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| id_dosen   | int(11)   | NO   | PRI | NULL     |       |
| nama_dosen | varchar(45)| NO   |     | NULL     |       |
| alamat_dosen | varchar(255)| NO   |     | NULL     |       |
| ttl_dosen  | varchar(50)| NO   |     | NULL     |       |
| kode_dosen | varchar(15)| NO   |     | NULL     |       |
+-----+-----+-----+-----+-----+-----+
5 rows in set (0.00 sec)

MariaDB [kuliah]> describe mahasiswa;
+-----+-----+-----+-----+-----+-----+
| Field          | Type      | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| id_mahasiswa   | int(11)   | NO   | PRI | NULL     |       |
| nama_mahasiswa | varchar(45)| NO   |     | NULL     |       |
| alamat_mahasiswa | varchar(255)| NO   |     | NULL     |       |
| ttl_mahasiswa  | varchar(50)| NO   |     | NULL     |       |
+-----+-----+-----+-----+-----+-----+
4 rows in set (0.00 sec)

MariaDB [kuliah]> describe mahasiswa_has_dosen;
+-----+-----+-----+-----+-----+-----+
| Field          | Type      | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| id_mahasiswaFK | int(11)   | NO   | PRI | NULL     |       |
| kode_dosenFK   | int(11)   | NO   | PRI | NULL     |       |
+-----+-----+-----+-----+-----+-----+
2 rows in set (0.00 sec)

MariaDB [kuliah]> describe mahasiswa_has_matakuliah;
+-----+-----+-----+-----+-----+-----+
| Field          | Type      | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| id_mahasiswaFK | int(11)   | NO   | PRI | NULL     |       |
| kode_matakuliahFK | int(11)   | NO   | PRI | NULL     |       |
+-----+-----+-----+-----+-----+-----+
2 rows in set (0.01 sec)
```