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LAPORAN PRAKTIKUM BASIS DATA

Database perkuliahan

```
MariaDB [(none)]> create database perkuliahan;  
Query OK, 1 row affected (0.03 sec)
```

```
MariaDB [(none)]> use perkuliahan;  
Database changed
```

```
MariaDB [perkuliahan]> CREATE TABLE mahasiswa(  
-> NIM INTEGER PRIMARY KEY,  
-> nama_mahasiswa VARCHAR(45) NOT NULL,  
-> alamat_mahasiswa VARCHAR(255) NOT NULL  
-> );  
Query OK, 0 rows affected (0.39 sec)
```

```
MariaDB [perkuliahan]> CREATE TABLE dosen(  
-> id_dosen INTEGER PRIMARY KEY,  
-> nama_dosen VARCHAR(20) NOT NULL,  
-> alamat_dosen VARCHAR(255) NOT NULL  
-> );  
Query OK, 0 rows affected (0.30 sec)
```

```
MariaDB [perkuliahan]> CREATE TABLE ruang_kelas(  
-> kode_kelas VARCHAR(20) PRIMARY KEY,  
-> mata_kuliah_kode_matkul VARCHAR(20) REFERENCES mata_kuliah(kode_matkul)  
-> ON DELETE SET NULL ON UPDATE CASCADE,  
-> jumlah_kelas INTEGER NOT NULL  
-> );  
Query OK, 0 rows affected (0.33 sec)
```

```
MariaDB [perkuliahan]> CREATE TABLE mata_kuliah(  
-> kode_matkul VARCHAR(20) PRIMARY KEY,  
-> dosen_id_dosen INTEGER REFERENCES dosen(id_dosen)  
-> ON DELETE SET NULL ON UPDATE CASCADE,  
-> nama_matkul VARCHAR(45) NOT NULL  
-> );  
Query OK, 0 rows affected (0.29 sec)
```

```
MariaDB [perkuliahan]> CREATE TABLE mahasiswa_has_mata_kuliah(  
  -> mata_kuliah_kode_matkul VARCHAR(20) REFERENCES mata_kuliah(kode_matkul)  
  -> ON DELETE SET NULL ON UPDATE CASCADE,  
  -> mahasiswa_NIM INTEGER REFERENCES mahasiswa(NIM)  
  -> ON DELETE SET NULL ON UPDATE CASCADE,  
  -> PRIMARY KEY(mata_kuliah_kode_matkul, mahasiswa_NIM)  
  -> );  
Query OK, 0 rows affected (0.38 sec)
```

```
MariaDB [perkuliahan]> CREATE TABLE mahasiswa_has_dosen(  
  -> mahasiswa_NIM INTEGER REFERENCES mahasiswa(NIM)  
  -> ON DELETE SET NULL ON UPDATE CASCADE,  
  -> dosen_id_dosen INTEGER REFERENCES dosen(id_dosen)  
  -> ON DELETE SET NULL ON UPDATE CASCADE,  
  -> PRIMARY KEY(mahasiswa_NIM, dosen_id_dosen)  
  -> );  
Query OK, 0 rows affected (0.51 sec)
```

```
MariaDB [perkuliahan]> show tables;  
+-----+  
| Tables_in_perkuliahan |  
+-----+  
| dosen                  |  
| mahasiswa              |  
| mahasiswa_has_dosen    |  
| mahasiswa_has_mata_kuliah |  
| mata_kuliah            |  
| ruang_kelas            |  
+-----+  
6 rows in set (0.14 sec)
```