

LAPORAN AWAL BASIS DATA

LAPORAN KE-3



Disusun Oleh :

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NIM :231011450284

Kelas :04TPLP003

**TEKNIK INFORMATIKA
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TUGAS PRAKTIKUM

a) Buatlah Struktur Database, dengan mengetik perintah di bawah ini

```
mysql> create database toko;

mysql> use toko;

mysql> create table karyawan(nik int(10),nama char(20) not null,tempattinggal
varchar(30),kota char(10),primary key(nik));

mysql> create table pelanggan(kode_plg int(10),nama varchar (20),alamat
varchar(20),tlp varchar(20));

mysql> create table barang(kode_brg int(10),nama_brg char(15),stok
varchar(10),harga varchar(10));
```

```
MariaDB [(none)]> create database toko;
Query OK, 1 row affected (0.000 sec)

MariaDB [(none)]> use toko;
Database changed
MariaDB [toko]> create table karyawan (nik int(10),nama char(20) not null,tempattinggal
-> varchar(30),kota char(10),primary key(nik));
Query OK, 0 rows affected (0.017 sec)

MariaDB [toko]> create table pelanggan(kode_plg int(10),nama varchar(20),alamat
-> varchar(20),tlp varchar(20));
Query OK, 0 rows affected (0.015 sec)

MariaDB [toko]> create table barang(kode_brg int(10),nama_brg char(15),stok varchar(10),harga varchar(10));
Query OK, 0 rows affected (0.044 sec)

MariaDB [toko]> SELECT
-> 'Febiyanto Rizki Qurbandi' AS Nama,
-> '231011450284' AS NIM,
-> '04TLP003' AS Kelas,
-> 'Basis Data' AS Mata_Kuliah;
+-----+-----+-----+-----+
| Nama          | NIM          | Kelas  | Mata_Kuliah |
+-----+-----+-----+-----+
| Febiyanto Rizki Qurbandi | 231011450284 | 04TLP003 | Basis Data  |
+-----+-----+-----+-----+
1 row in set (0.000 sec)

MariaDB [toko]> █
```

b) Dari point a) di atas, ubah struktur database sebagai berikut:

1) Menambah field(kolom) pendidikan pada table karyawan

Ketik perintah di bawah ini;

```
mysql> ALTER TABLE karyawan ADD pendidikan char(10);
mysql> desc karyawan;
```

2)Mengubah nama sebuah kolom pada table karyawan.

Ketik perintah di bawah ini

```
mysql> ALTER TABLE karyawan CHANGE tempatinggal alamat varchar(25);
```

3)Mengganti nama sebuah tabel pada tabel pelanggan

Ketik perintah di bawah ini

```
mysql> ALTER TABLE pelanggan RENAME to pembeli;
```

4)Menghapus sebuah kolom pada table karyawan

Ketik perintah di bawah ini

```
mysql> ALTER TABLE karyawan DROP kota;
```

5)Memodifikasi kolom pada tabel barang

Ketik perintah di bawah ini:

```
mysql> ALTER TABLE barang MODIFY nama_brg char(20);
```

```
MariaDB [toko]> ALTER TABLE karyawan ADD pendidikan char(10);
Query OK, 0 rows affected (0.013 sec)
Records: 0 Duplicates: 0 Warnings: 0

MariaDB [toko]> desc karyawan;
+-----+-----+-----+-----+-----+-----+
| Field | Type | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| nik    | int(10) | NO | PRI | NULL | |
| nama   | char(20) | NO | | NULL | |
| tempatinggal | varchar(30) | YES | | NULL | |
| kota   | char(10) | YES | | NULL | |
| pendidikan | char(10) | YES | | NULL | |
+-----+-----+-----+-----+-----+-----+
5 rows in set (0.001 sec)

MariaDB [toko]> ALTER TABLE karyawan CHANGE tempatinggal alamat varchar(25);
Query OK, 0 rows affected (0.029 sec)
Records: 0 Duplicates: 0 Warnings: 0

MariaDB [toko]> ALTER TABLE pelanggan RENAME to pembeli;
Query OK, 0 rows affected (0.014 sec)

MariaDB [toko]> ALTER TABLE karyawan DROP kota;
Query OK, 0 rows affected (0.007 sec)
Records: 0 Duplicates: 0 Warnings: 0

MariaDB [toko]> ALTER TABLE barang MODIFY nama_brg char(20);
Query OK, 0 rows affected (0.031 sec)
Records: 0 Duplicates: 0 Warnings: 0

MariaDB [toko]> desc karyawan;
+-----+-----+-----+-----+-----+-----+
| Field | Type | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| nik    | int(10) | NO | PRI | NULL | |
| nama   | char(20) | NO | | NULL | |
| alamat | varchar(25) | YES | | NULL | |
| pendidikan | char(10) | YES | | NULL | |
+-----+-----+-----+-----+-----+-----+
4 rows in set (0.001 sec)

MariaDB [toko]> SELECT
-> 'Febiyanto Rizki Qurbandi' AS Nama,
-> '231011450284' AS NIM,
-> '04TLP003' AS Kelas,
-> 'Basis Data' AS Mata_Kuliah;
+-----+-----+-----+-----+
| Nama | NIM | Kelas | Mata_Kuliah |
+-----+-----+-----+-----+
| Febiyanto Rizki Qurbandi | 231011450284 | 04TLP003 | Basis Data |
+-----+-----+-----+-----+
1 row in set (0.000 sec)

MariaDB [toko]>
```

c) Buatlah Struktur database berdasarkan tabel di bawah ini
nama database : puskesmas dan nama table : pasien

Field	Tipe data	Jangkauan
Kodepasien	Char(primary key)	20
Nama	Varchar	15
Penyakit	Varchar	20
Kodedokter	Varchar	13
Biaya	char	15

```

MariaDB [(none)]> CREATE DATABASE puskesmas;
Query OK, 1 row affected (0.000 sec)

MariaDB [(none)]> USE puskesmas;
Database changed
MariaDB [puskesmas]> CREATE TABLE pasien (
  ->   kodepasien CHAR(20) PRIMARY KEY,
  ->   nama VARCHAR(15),
  ->   penyakit VARCHAR(20),
  ->   kodedokter VARCHAR(13),
  ->   biaya CHAR(15)
  -> );
Query OK, 0 rows affected (0.015 sec)

MariaDB [puskesmas]> SHOW TABLES;
+-----+
| Tables_in_puskesmas |
+-----+
| pasien               |
+-----+
1 row in set (0.001 sec)

MariaDB [puskesmas]> desc pasien;
+-----+-----+-----+-----+-----+-----+
| Field      | Type      | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| kodepasien | char(20)  | NO   | PRI | NULL    |       |
| nama       | varchar(15) | YES  |     | NULL    |       |
| penyakit   | varchar(20) | YES  |     | NULL    |       |
| kodedokter | varchar(13) | YES  |     | NULL    |       |
| biaya      | char(15)   | YES  |     | NULL    |       |
+-----+-----+-----+-----+-----+-----+
5 rows in set (0.001 sec)

MariaDB [puskesmas]> SELECT
  ->   'Febiyanto Rizki Qurbandi' AS Nama,
  ->   '231011450284' AS NIM,
  ->   '04TLP003' AS Kelas,
  ->   'Basis Data' AS Mata_Kuliah;
+-----+-----+-----+-----+
| Nama          | NIM          | Kelas  | Mata_Kuliah |
+-----+-----+-----+-----+
| Febiyanto Rizki Qurbandi | 231011450284 | 04TLP003 | Basis Data |
+-----+-----+-----+-----+
1 row in set (0.000 sec)

MariaDB [puskesmas]>

```

d) Dari point c) di atas, dengan menggunakan perintah Alter, ubah seperti tabel di bawah ini

Field	Tipe data	Jangkauan
idpasien	Char(primary key)	20
Nama_Pasien	Varchar	15
Penyakit	Varchar	20
Kodedokter	Varchar	13
Kodeobat	char	10
Biaya	char	15

Ketentuan:

- 1) Mengganti nama kodepasien dengan id_pasien
- 2) Mengubah nama menjadi nama_pasien
- 3) Memodifikasi kodedokter menjadi kd_dokter varchar (10)
- 4) Menambah kolom kodeobat char (10) pada masing masing table
- 5) Menghapus kolom biaya pada table diatas

```
MariaDB [puskesmas]> desc pasien;
+-----+-----+-----+-----+-----+-----+
| Field | Type | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| kodepasien | char(20) | NO | PRI | NULL | |
| nama | varchar(15) | YES | | NULL | |
| penyakit | varchar(20) | YES | | NULL | |
| kodedokter | varchar(13) | YES | | NULL | |
| biaya | char(15) | YES | | NULL | |
+-----+-----+-----+-----+-----+-----+
5 rows in set (0.000 sec)

MariaDB [puskesmas]> ALTER TABLE pasien CHANGE kodepasien idpasien CHAR(20);
Query OK, 0 rows affected (0.013 sec)
Records: 0 Duplicates: 0 Warnings: 0

MariaDB [puskesmas]> ALTER TABLE pasien CHANGE nama namapasien VARCHAR(15);
Query OK, 0 rows affected (0.012 sec)
Records: 0 Duplicates: 0 Warnings: 0

MariaDB [puskesmas]> ALTER TABLE pasien CHANGE kodedokter kddokter VARCHAR(10);
Query OK, 0 rows affected (0.028 sec)
Records: 0 Duplicates: 0 Warnings: 0

MariaDB [puskesmas]> ALTER TABLE pasien ADD kodeobat CHAR(10);
Query OK, 0 rows affected (0.012 sec)
Records: 0 Duplicates: 0 Warnings: 0

MariaDB [puskesmas]> ALTER TABLE pasien DROP biaya;
Query OK, 0 rows affected (0.040 sec)
Records: 0 Duplicates: 0 Warnings: 0

MariaDB [puskesmas]> DESC pasien;
+-----+-----+-----+-----+-----+-----+
| Field | Type | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| idpasien | char(20) | NO | PRI | NULL | |
| namapasien | varchar(15) | YES | | NULL | |
| penyakit | varchar(20) | YES | | NULL | |
| kddokter | varchar(10) | YES | | NULL | |
| kodeobat | char(10) | YES | | NULL | |
+-----+-----+-----+-----+-----+-----+
5 rows in set (0.000 sec)

MariaDB [puskesmas]> SELECT
-> 'Febiyanto Rizki Qurbandi' AS Nama,
-> '231011450284' AS NIM,
-> '04TPLP003' AS Kelas,
-> 'Basis Data' AS Mata_Kuliah;
+-----+-----+-----+-----+
| Nama | NIM | Kelas | Mata_Kuliah |
+-----+-----+-----+-----+
| Febiyanto Rizki Qurbandi | 231011450284 | 04TPLP003 | Basis Data |
+-----+-----+-----+-----+
1 row in set (0.000 sec)

MariaDB [puskesmas]>
```

