

LAPORAN AWAL BASIS DATA

LAPORAN KE-4



Disusun Oleh :

Nama :Febiyanto Rizki Qurbandi

NIM :231011450284

Kelas :04TPLP003

**TEKNIK INFORMATIKA
FAKULTAS TEKNIK
UNIVERSITAS PAMULANG**

Jl. Surya Kencana No. 1 Pamulang Telp (021)7412566, Fax.(021)7412566
Tangerang Selatan – Banten

TUGAS PRAKTIKUM

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

```
mysql> create database universitas;

mysql> use universitas;

mysql> create table mahasiswa(nim int(10),nama char(20),alamat varchar(30), email
char(20),no_tlp char(10),primary key(nim));

mysql> show tables;

mysql> desc mahasiswa;
```

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

MariaDB [(none)]> USE universitas;
Database changed
MariaDB [universitas]> CREATE TABLE mahasiswa (
  -> nim INT(10) PRIMARY KEY,
  -> nama CHAR(20),
  -> alamat VARCHAR(30),
  -> email CHAR(20),
  -> no_tlp VARCHAR(13)
  -> );
Query OK, 0 rows affected (0.043 sec)

MariaDB [universitas]> SHOW TABLES;
+-----+
| Tables_in_universitas |
+-----+
| mahasiswa              |
+-----+
1 row in set (0.000 sec)

MariaDB [universitas]> DESC mahasiswa;
+-----+-----+-----+-----+-----+-----+
| Field | Type      | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| nim   | int(10)   | NO   | PRI | NULL    |       |
| nama  | char(20)  | YES  |     | NULL    |       |
| alamat | varchar(30) | YES  |     | NULL    |       |
| email | char(20)  | YES  |     | NULL    |       |
| no_tlp | varchar(13) | YES  |     | NULL    |       |
+-----+-----+-----+-----+-----+-----+
5 rows in set (0.001 sec)

MariaDB [universitas]> 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 [universitas]> 
```

b) Dari point a) di atas, tambahkan data sebagai berikut: Menambah data pada tabel mahasiswa dengan insert into

Ketik perintah di bawah ini

```
mysql>INSERT INTO mahasiswa (nim,nama,alamat,email,no_tlp)
values ('080911002','Sari','Pamulang','sari@gmail.com','08561009999');
mysql>INSERT INTO mahasiswa (nim,nama,alamat,email,no_tlp)
values ('080911001','lala','jakarta','lala@gmail.com','08561009124');
mysql>INSERT INTO mahasiswa values
(ah'080911003','Tono','Parung','tono@gmail.com','08561009888');
mysql>INSERT INTO mahasiswa values
('080911006','Toti','ciputat','toti@gmail.com','08561009555');
mysql> INSERT INTO mahasiswa set nim='080911014',nama='Ida',
alamat='Serpong',email='ida@gmail.com',no_tlp='08561009777';
mysql> INSERT INTO mahasiswa set nim='080911004',nama='Iya',
alamat='Semarang',email='iya@gmail.com',no_tlp='08561009999';
```

Hasil Penambahan, di lihat menggunakan perintah berikut:

```
mysql>select * from mahasiswa;
```

```
MariaDB [universitas]> INSERT INTO mahasiswa (nim, nama, alamat, email, no_tlp) VALUES
-> (080911002, 'Sari', 'Pamulang', 'sari@gmail.com', '08561009999'),
-> (080911001, 'Lala', 'Jakarta', 'lala@gmail.com', '08561009124'),
-> (080911003, 'Tono', 'Parung', 'tono@gmail.com', '08561009888'),
-> (080911006, 'Toti', 'Ciputat', 'toti@gmail.com', '08561009555');
Query OK, 4 rows affected (0.010 sec)
Records: 4 Duplicates: 0 Warnings: 0

MariaDB [universitas]>
MariaDB [universitas]> INSERT INTO mahasiswa SET nim=080911014, nama='Ida', alamat='Serpong', email='ida@gmail.com', no_tlp='08561009777';
Query OK, 1 row affected (0.001 sec)

MariaDB [universitas]> INSERT INTO mahasiswa SET nim=080911004, nama='Iya', alamat='Semarang', email='iya@gmail.com', no_tlp='08561009999';
Query OK, 1 row affected (0.001 sec)

MariaDB [universitas]>
MariaDB [universitas]> SELECT * FROM mahasiswa;
+-----+-----+-----+-----+-----+
| nim | nama | alamat | email | no_tlp |
+-----+-----+-----+-----+
| 80911001 | Lala | Jakarta | lala@gmail.com | 08561009124 |
| 80911002 | Sari | Pamulang | sari@gmail.com | 08561009999 |
| 80911003 | Tono | Parung | tono@gmail.com | 08561009888 |
| 80911004 | Iya | Semarang | iya@gmail.com | 08561009999 |
| 80911006 | Toti | Ciputat | toti@gmail.com | 08561009555 |
| 80911014 | Ida | Serpong | ida@gmail.com | 08561009777 |
+-----+-----+-----+-----+
6 rows in set (0.000 sec)

MariaDB [universitas]> 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 [universitas]>
```

c) Dari point a) dan b) di atas, ubah data sebagai berikut:

Mengubah data pada tabel mahasiswa dengan update

Ketik perintah di bawah ini

```
mysql>UPDATE mahasiswa set alamat ='ciputat' where nim=080911002; mysql>UPDATE
mahasiswa set email ='jaya@yahoo.com' where nim=080911002; mysql>UPDATE
mahasiswa set nama ='Bambang' where nim=0809110003; mysql>UPDATE
mahasiswa set alamat ='ciputat' where nim=0809110003; mysql>UPDATE
mahasiswa set email ='yaho@yahoo.com' where
nim=0809110004;
mysql>UPDATE mahasiswa set email ='Ida@yahoo.com' where nim=0809110004;
```

```
MariaDB [universitas]> UPDATE mahasiswa SET alamat='Ciputat' WHERE nim=080911002;
Query OK, 0 rows affected (0.000 sec)
Rows matched: 1 Changed: 0 Warnings: 0

MariaDB [universitas]> UPDATE mahasiswa SET email='jaya@yahoo.com' WHERE nim=080911002;
Query OK, 0 rows affected (0.000 sec)
Rows matched: 1 Changed: 0 Warnings: 0

MariaDB [universitas]> UPDATE mahasiswa SET nama='Bambang' WHERE nim=080911003;
Query OK, 0 rows affected (0.000 sec)
Rows matched: 1 Changed: 0 Warnings: 0

MariaDB [universitas]> UPDATE mahasiswa SET alamat='Ciputat' WHERE nim=080911003;
Query OK, 0 rows affected (0.000 sec)
Rows matched: 1 Changed: 0 Warnings: 0

MariaDB [universitas]> UPDATE mahasiswa SET email='yaho@yahoo.com' WHERE nim=080911004;
Query OK, 1 row affected (0.002 sec)
Rows matched: 1 Changed: 1 Warnings: 0

MariaDB [universitas]> UPDATE mahasiswa SET email='Ida@yahoo.com' WHERE nim=080911004;
Query OK, 1 row affected (0.002 sec)
Rows matched: 1 Changed: 1 Warnings: 0

MariaDB [universitas]> select * from mahasiswa;
+-----+-----+-----+-----+-----+
| nim    | nama  | alamat | email      | no_tlp |
+-----+-----+-----+-----+-----+
| 80911001 | Lala  | Jakarta | lala@gmail.com | 08561009124 |
| 80911002 | Sari  | Ciputat | jaya@yahoo.com | 08561009999 |
| 80911003 | Bambang | Ciputat | tono@gmail.com | 08561009888 |
| 80911004 | Iya   | Semarang | Ida@yahoo.com | 08561009999 |
| 80911006 | Toti  | Ciputat | toti@gmail.com | 08561009555 |
| 80911014 | Ida   | Serpong | ida@gmail.com | 08561009777 |
+-----+-----+-----+-----+-----+
6 rows in set (0.000 sec)

MariaDB [universitas]> 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 [universitas]> 
```

c) Dari point a), b) dan c) di atas, hapus data sebagai berikut: Menghapus data pada tabel mahasiswa dengan delete

Ketik perintah di bawah ini

```
mysql> delete from mahasiswa where nim=0809110004;
mysql> delete from mahasiswa where nim=080911014;
```

```
MariaDB [universitas]> DELETE FROM mahasiswa WHERE nim=080911004;
Query OK, 1 row affected (0.001 sec)

MariaDB [universitas]> DELETE FROM mahasiswa WHERE nim=080911014;
Query OK, 1 row affected (0.010 sec)

MariaDB [universitas]> select * from mahasiswa;
+-----+-----+-----+-----+-----+
| nim    | nama  | alamat | email      | no_tlp |
+-----+-----+-----+-----+-----+
| 80911001 | Lala  | Jakarta | lala@gmail.com | 08561009124 |
| 80911002 | Sari  | Ciputat | jaya@yahoo.com | 08561009999 |
| 80911003 | Bambang | Ciputat | tonogmail.com | 08561009888 |
| 80911006 | Toti  | Ciputat | toti@gmail.com | 08561009555 |
+-----+-----+-----+-----+-----+
4 rows in set (0.000 sec)

MariaDB [universitas]> 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 [universitas]> █
```

d)Buat Database dengan nama Perusahaan, kemudian table dengan nama karyawan,

kemudian isi table tersebut dengan data seperti di bawah ini

NIK	Nama	Alamat	Email	No_Telepon
080911001	Susi	Serpong	susi@yahoo.com	0856777777
080911002	Nuri	Jakarta	nuri@gmail.com	0956888888
080911003	Santi	Ciputat	santi@gmail.com	0812455555
080911006	Nuna	Kebayoran	nunu@yahoo.com	0817677776

```
MariaDB [universitas]> CREATE DATABASE perusahaan;
Query OK, 1 row affected (0.000 sec)

MariaDB [universitas]> USE perusahaan;
Database changed
MariaDB [perusahaan]> CREATE TABLE karyawan (
  -> NIK INT(10) PRIMARY KEY,
  -> Nama VARCHAR(30),
  -> Alamat VARCHAR(30),
  -> Email VARCHAR(30),
  -> No_Telepon VARCHAR(15)
  -> );
Query OK, 0 rows affected (0.015 sec)

MariaDB [perusahaan]> INSERT INTO karyawan VALUES
  -> (080911001, 'Susi', 'Serpong', 'susi@yahoo.com', '0856777777'),
  -> (080911002, 'Nuri', 'Jakarta', 'nuri@gmail.com', '0856888888'),
  -> (080911003, 'Santi', 'Ciputat', 'santi@gmail.com', '0812455555'),
  -> (080911006, 'Nunu', 'Kebayoran', 'nunu@yahoo.com', '0817677776');
Query OK, 4 rows affected (0.011 sec)
Records: 4 Duplicates: 0 Warnings: 0

MariaDB [perusahaan]> select * from karyawan;
+-----+-----+-----+-----+-----+
| NIK    | Nama  | Alamat | Email      | No_Telepon |
+-----+-----+-----+-----+-----+
| 80911001 | Susi  | Serpong | susi@yahoo.com | 0856777777 |
| 80911002 | Nuri  | Jakarta | nuri@gmail.com | 0856888888 |
| 80911003 | Santi | Ciputat | santi@gmail.com | 0812455555 |
| 80911006 | Nunu  | Kebayoran | nunu@yahoo.com | 0817677776 |
+-----+-----+-----+-----+-----+
4 rows in set (0.000 sec)

MariaDB [perusahaan]> 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 [perusahaan]> █
```

e) Dari point d), kemudian ubah data pada table tersebut sehingga menjadi seperti tabel di bawah ini

NIK	Nama	Alamat	Email	No_Telepon
080911001	Susi	Muncul	Susi@yahoo.com	0851236789
080911002	Sari	Jakarta	sari@ymail.com	0856888888
080911003	Sindy	Cinere	sindy@yahoo.com	0812454564
080911006	Sandra	Kebayoran	sandra@yahoo.com	0817677776

```

MariaDB [perusahaan]> UPDATE karyawan SET Alamat='Muncul', No_Telepon='0851236789' WHERE NIK=080911001;
Query OK, 1 row affected (0.010 sec)
Rows matched: 1 Changed: 1 Warnings: 0

MariaDB [perusahaan]> UPDATE karyawan SET Nama='Sari', Email='sari@ymail.com' WHERE NIK=080911002;
Query OK, 1 row affected (0.001 sec)
Rows matched: 1 Changed: 1 Warnings: 0

MariaDB [perusahaan]> UPDATE karyawan SET Nama='Sindy', Alamat='Cinere', Email='sindy@yahoo.com', No_Telepon='0812454564' WHERE NIK=080911003;
Query OK, 1 row affected (0.001 sec)
Rows matched: 1 Changed: 1 Warnings: 0

MariaDB [perusahaan]> UPDATE karyawan SET Nama='Sandra', Email='sandra@yahoo.com' WHERE NIK=080911006;
Query OK, 1 row affected (0.010 sec)
Rows matched: 1 Changed: 1 Warnings: 0

MariaDB [perusahaan]> select * from karyawan;
+-----+-----+-----+-----+-----+
| NIK   | Nama  | Alamat | Email  | No_Telepon |
+-----+-----+-----+-----+-----+
| 80911001 | Susi  | Muncul | susi@yahoo.com | 0851236789 |
| 80911002 | Sari  | Jakarta | sari@ymail.com | 0856888888 |
| 80911003 | Sindy | Cinere  | sindy@yahoo.com | 0812454564 |
| 80911006 | Sandra | Kebayoran | sandra@yahoo.com | 0817677776 |
+-----+-----+-----+-----+-----+
4 rows in set (0.000 sec)

MariaDB [perusahaan]> 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 [perusahaan]>

```

