

## Tugas Konsli

Nama : Muhammad Shofian Najib

Kelas / Absen : XI RPL 2 / 14

### 1. Membuat database

```
mysql> create database tugas;  
Query OK, 1 row affected (0.01 sec)
```

### 2. Memilih database

```
mysql> use tugas;  
Database changed
```

### 3. Membuat tabel Penduduk

```
mysql> create table Penduduk (  
-> NIK int not null primary key,  
-> Nama text not null,  
-> Tgl_Lahir date not null,  
-> Thn_Lahir year not null,  
-> RT int not null,  
-> RW int not null,  
-> Id_Desa int not null,  
-> Kecamatan text not null,  
-> Alamat text not null  
-> );  
Query OK, 0 rows affected (0.02 sec)
```

```
mysql> desc Penduduk;
```

Field	Type	Null	Key	Default	Extra
NIK	int	NO	PRI	NULL	
Nama	text	NO		NULL	
Tgl_Lahir	date	NO		NULL	
Thn_Lahir	year	NO		NULL	
RT	int	NO		NULL	
RW	int	NO		NULL	
Id_Desa	int	NO		NULL	
Kecamatan	text	NO		NULL	
Alamat	text	NO		NULL	

```
9 rows in set (0.00 sec)
```

#### 4. Membuat tabel Surat\_Permohonan

```
mysql> create table Surat_Permohonan (  
  -> Id_Surat_Mohon int not null primary key,  
  -> NIK int not null,  
  -> Id_Desa int not null,  
  -> Tanggal date not null,  
  -> Keterangan text not null  
  -> );  
Query OK, 0 rows affected (0.02 sec)  
  
mysql> desc Surat_Permohonan;  
+-----+-----+-----+-----+-----+-----+  
| Field      | Type | Null | Key | Default | Extra |  
+-----+-----+-----+-----+-----+-----+  
| Id_Surat_Mohon | int  | NO   | PRI | NULL    |       |  
| NIK          | int  | NO   |     | NULL    |       |  
| Id_Desa      | int  | NO   |     | NULL    |       |  
| Tanggal      | date | NO   |     | NULL    |       |  
| Keterangan    | text | NO   |     | NULL    |       |  
+-----+-----+-----+-----+-----+-----+  
5 rows in set (0.00 sec)
```

#### 5. Membuat tabel Surat

```
mysql> create table Surat (  
  -> Id_Surat int not null primary key,  
  -> Nama_Surat text not null,  
  -> Jenis_Surat text not null,  
  -> Keterangan text not null,  
  -> Id_Surat_Mohon int not null,  
  -> NIK int not null,  
  -> Id_Desa int not null  
  -> );  
Query OK, 0 rows affected (0.02 sec)  
  
mysql> desc Surat;  
+-----+-----+-----+-----+-----+-----+  
| Field      | Type | Null | Key | Default | Extra |  
+-----+-----+-----+-----+-----+-----+  
| Id_Surat    | int  | NO   | PRI | NULL    |       |  
| Nama_Surat  | text | NO   |     | NULL    |       |  
| Jenis_Surat | text | NO   |     | NULL    |       |  
| Keterangan  | text | NO   |     | NULL    |       |  
| Id_Surat_Mohon | int  | NO   |     | NULL    |       |  
| NIK         | int  | NO   |     | NULL    |       |  
| Id_Desa     | int  | NO   |     | NULL    |       |  
+-----+-----+-----+-----+-----+-----+  
7 rows in set (0.00 sec)
```

#### 6. Membuat tabel Desa

```
mysql> create table Desa (  
  -> Id_Desa int not null primary key,  
  -> Nama text not null,  
  -> Alamat text not null,  
  -> NIK int not null  
  -> );  
Query OK, 0 rows affected (0.02 sec)  
  
mysql> desc Desa;  
+-----+-----+-----+-----+-----+-----+  
| Field      | Type | Null | Key | Default | Extra |  
+-----+-----+-----+-----+-----+-----+  
| Id_Desa    | int  | NO   | PRI | NULL    |       |  
| Nama       | text | NO   |     | NULL    |       |  
| Alamat     | text | NO   |     | NULL    |       |  
| NIK        | int  | NO   |     | NULL    |       |  
+-----+-----+-----+-----+-----+-----+  
4 rows in set (0.00 sec)
```

## 7. Menambah auto\_increment di tabel Penduduk

```
mysql> alter table Penduduk
-> modify column NIK int not null auto_increment;
Query OK, 0 rows affected (0.06 sec)
Records: 0 Duplicates: 0 Warnings: 0

mysql> desc Penduduk;
+-----+-----+-----+-----+-----+-----+
| Field | Type | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| NIK    | int  | NO   | PRI | NULL    | auto_increment |
| Nama   | text | NO   |     | NULL    |                |
| Tgl_Lahir | date | NO   |     | NULL    |                |
| Thn_Lahir | year | NO   |     | NULL    |                |
| RT     | int  | NO   |     | NULL    |                |
| RW     | int  | NO   |     | NULL    |                |
| Id_Desa | int  | NO   |     | NULL    |                |
| Kecamatan | text | NO   |     | NULL    |                |
| Alamat | text | NO   |     | NULL    |                |
+-----+-----+-----+-----+-----+-----+
9 rows in set (0.00 sec)
```

## 8. Menambah auto\_increment di tabel Surat\_Permohonan

```
mysql> alter table Surat_Permohonan
-> modify column Id_Surat_Mohon int not null auto_increment;
Query OK, 0 rows affected (0.05 sec)
Records: 0 Duplicates: 0 Warnings: 0

mysql> desc Surat_Permohonan;
+-----+-----+-----+-----+-----+-----+
| Field | Type | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| Id_Surat_Mohon | int | NO | PRI | NULL | auto_increment |
| NIK            | int | NO |     | NULL |                |
| Id_Desa        | int | NO |     | NULL |                |
| Tanggal       | date | NO |     | NULL |                |
| Keterangan     | text | NO |     | NULL |                |
+-----+-----+-----+-----+-----+-----+
5 rows in set (0.00 sec)
```

## 9. Menambah auto\_increment di tabel Surat

```
mysql> alter table Surat
-> modify column Id_Surat int not null auto_increment;
Query OK, 0 rows affected (0.06 sec)
Records: 0 Duplicates: 0 Warnings: 0

mysql> desc Surat;
+-----+-----+-----+-----+-----+-----+
| Field | Type | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| Id_Surat | int | NO | PRI | NULL | auto_increment |
| Nama_Surat | text | NO |     | NULL |                |
| Jenis_Surat | text | NO |     | NULL |                |
| Keterangan | text | NO |     | NULL |                |
| Id_Surat_Mohon | int | NO |     | NULL |                |
| NIK       | int | NO |     | NULL |                |
| Id_Desa   | int | NO |     | NULL |                |
+-----+-----+-----+-----+-----+-----+
7 rows in set (0.00 sec)
```

## 10. Menambah auto\_increment di tabel Desa

```
mysql> alter table Desa
-> add foreign key (NIK) references Penduduk (NIK);
Query OK, 0 rows affected (0.10 sec)
Records: 0 Duplicates: 0 Warnings: 0

mysql> desc Desa;
+-----+-----+-----+-----+-----+-----+
| Field | Type | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| Id_Desa | int | NO | PRI | NULL | auto_increment |
| Nama | text | NO | | NULL | |
| Alamat | text | NO | | NULL | |
| NIK | int | NO | MUL | NULL | |
+-----+-----+-----+-----+-----+-----+
4 rows in set (0.00 sec)
```

## 11. Menambah foreign key pada tabel Penduduk

```
mysql> alter table Penduduk
-> add foreign key (Id_Desa) references Desa (Id_Desa);
Query OK, 0 rows affected (0.13 sec)
Records: 0 Duplicates: 0 Warnings: 0

mysql> desc Penduduk;
+-----+-----+-----+-----+-----+-----+
| Field | Type | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| NIK | int | NO | PRI | NULL | auto_increment |
| Nama | text | NO | | NULL | |
| Tgl_Lahir | date | NO | | NULL | |
| Thn_Lahir | year | NO | | NULL | |
| RT | int | NO | | NULL | |
| RW | int | NO | | NULL | |
| Id_Desa | int | NO | MUL | NULL | |
| Kecamatan | text | NO | | NULL | |
| Alamat | text | NO | | NULL | |
+-----+-----+-----+-----+-----+-----+
9 rows in set (0.00 sec)
```

## 12. Menambah foreign key pada tabel Surat-Permohonan

```
mysql> alter table Surat_Permohonan
-> add foreign key (NIK) references Penduduk (NIK),
-> add foreign key (Id_Desa) references Desa (Id_Desa);
Query OK, 0 rows affected (0.10 sec)
Records: 0 Duplicates: 0 Warnings: 0

mysql> desc Surat_Permohonan;
+-----+-----+-----+-----+-----+-----+
| Field | Type | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| Id_Surat_Mohon | int | NO | PRI | NULL | auto_increment |
| NIK | int | NO | MUL | NULL | |
| Id_Desa | int | NO | MUL | NULL | |
| Tanggal | date | NO | | NULL | |
| Keterangan | text | NO | | NULL | |
+-----+-----+-----+-----+-----+-----+
5 rows in set (0.00 sec)
```

#### 14. Menambah foreign key pada tabel Surat

```
mysql> alter table Surat
-> add foreign key (Id_Surat_Mohon) references Surat_Permohonan (Id_Surat_Mohon),
-> add foreign key (NIK) references Penduduk (NIK),
-> add foreign key (Id_Desa) references Desa (Id_Desa);
Query OK, 0 rows affected (0.11 sec)
Records: 0 Duplicates: 0 Warnings: 0

mysql> desc Surat;
+-----+-----+-----+-----+-----+-----+
| Field      | Type | Null | Key | Default | Extra          |
+-----+-----+-----+-----+-----+-----+
| Id_Surat   | int  | NO   | PRI | NULL    | auto_increment |
| Nama_Surat | text | NO   |     | NULL    |                |
| Jenis_Surat | text | NO   |     | NULL    |                |
| Keterangan | text | NO   |     | NULL    |                |
| Id_Surat_Mohon | int | NO   | MUL | NULL    |                |
| NIK        | int  | NO   | MUL | NULL    |                |
| Id_Desa    | int  | NO   | MUL | NULL    |                |
+-----+-----+-----+-----+-----+-----+
7 rows in set (0.00 sec)
```

#### 15. Menambah foreign key pada tabel Desa

```
mysql> alter table Desa
-> add foreign key (NIK) references Penduduk (NIK);
Query OK, 0 rows affected (0.10 sec)
Records: 0 Duplicates: 0 Warnings: 0

mysql> desc Desa;
+-----+-----+-----+-----+-----+-----+
| Field      | Type | Null | Key | Default | Extra          |
+-----+-----+-----+-----+-----+-----+
| Id_Desa    | int  | NO   | PRI | NULL    | auto_increment |
| Nama       | text | NO   |     | NULL    |                |
| Alamat     | text | NO   |     | NULL    |                |
| NIK        | int  | NO   | MUL | NULL    |                |
+-----+-----+-----+-----+-----+-----+
4 rows in set (0.00 sec)
```

Hasil tabel :

```
mysql> show tables;
+-----+
| Tables_in_tugas |
+-----+
| desa             |
| penduduk         |
| surat           |
| surat_permohonan |
+-----+
4 rows in set (0.00 sec)
```

Struktur tabel :

```
mysql> desc Penduduk;
+-----+-----+-----+-----+-----+-----+
| Field | Type | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| NIK    | int   | NO    | PRI  | NULL    | auto_increment |
| Nama   | text  | NO    |      | NULL    |                |
| Tgl_Lahir | date | NO    |      | NULL    |                |
| Thn_Lahir | year | NO    |      | NULL    |                |
| RT     | int   | NO    |      | NULL    |                |
| RW     | int   | NO    |      | NULL    |                |
| Id_Desa | int   | NO    | MUL  | NULL    |                |
| Kecamatan | text | NO    |      | NULL    |                |
| Alamat | text  | NO    |      | NULL    |                |
+-----+-----+-----+-----+-----+-----+
9 rows in set (0.00 sec)
```

```
mysql> desc Surat_Permohonan;
+-----+-----+-----+-----+-----+-----+
| Field | Type | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| Id_Surat_Mohon | int | NO | PRI | NULL | auto_increment |
| NIK            | int | NO | MUL | NULL |                |
| Id_Desa        | int | NO | MUL | NULL |                |
| Tanggal        | date | NO |      | NULL |                |
| Keterangan      | text | NO |      | NULL |                |
+-----+-----+-----+-----+-----+-----+
5 rows in set (0.00 sec)
```

```
mysql> desc Surat;
+-----+-----+-----+-----+-----+-----+
| Field | Type | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| Id_Surat | int | NO | PRI | NULL | auto_increment |
| Nama_Surat | text | NO |      | NULL |                |
| Jenis_Surat | text | NO |      | NULL |                |
| Keterangan | text | NO |      | NULL |                |
| Id_Surat_Mohon | int | NO | MUL | NULL |                |
| NIK       | int | NO | MUL | NULL |                |
| Id_Desa   | int | NO | MUL | NULL |                |
+-----+-----+-----+-----+-----+-----+
7 rows in set (0.00 sec)
```

```
mysql> desc Desa;
+-----+-----+-----+-----+-----+-----+
| Field | Type | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| Id_Desa | int | NO | PRI | NULL | auto_increment |
| Nama    | text | NO |      | NULL |                |
| Alamat  | text | NO |      | NULL |                |
| NIK     | int | NO | MUL | NULL |                |
+-----+-----+-----+-----+-----+-----+
4 rows in set (0.00 sec)
```