

TUGAS MEMBUAT DATABASE



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1B

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1. PEMBUATAN DATABASE MENGGUNAKAN CMD

```
C:\Windows\system32\cmd.exe - mysql -u root
Microsoft Windows [Version 10.0.18362.720]
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C:\Users\WIN 10>cd../..

C:\>cd/xampp/mysql/bin

C:\xampp\mysql\bin>mysql -u root
Welcome to the MariaDB monitor.  Commands end with ; or \g.
Your MariaDB connection id is 9
Server version: 10.4.11-MariaDB mariadb.org binary distribution

Copyright (c) 2000, 2018, Oracle, MariaDB Corporation Ab and others.

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

MariaDB [(none)]> create database tugasDB;
Query OK, 1 row affected (0.008 sec)

MariaDB [(none)]> show databases;
+-----+
| Database |
+-----+
| information_schema |
| inventory_buku      |
| mysql              |
| performance_schema |
| phpmyadmin          |
| test                |
| tugas               |
| tugasdb             |
+-----+
8 rows in set (0.158 sec)

MariaDB [(none)]> use tugasDB;
Database changed
MariaDB [tugasDB]> create table alamat(
  -> idAlamat integer not null,
  -> idReff varchar(20) not null,
  -> alamat text not null,
  -> kota varchar(30) not null,
  -> provinsi varchar(30) not null,
  -> kdpos varchar(5) not null,
  -> noTelp varchar(15) not null,
```

```
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```

```
-> noTelp varchar(15) not null,  
-> noHp varchar(15) not null,  
-> email varchar(75) not null,  
-> primary key (idAlamat),  
-> primary key (idReff)  
-> );
```

ERROR 1068 (42000): Multiple primary key defined

```
MariaDB [tugasDB]> create table alamat(  
-> idAlamat integer not null,  
-> idReff varchar(20) not null,  
-> alamat text not null,  
-> kota varchar(30) not null,  
-> provinsi varchar(30) not null,  
-> kdpos varchar(5) not null,  
-> noTelp varchar(15) not null,  
-> noHp varchar(15) not null,  
-> email varchar(75) not null,  
-> primary key (idAlamat, idReff)  
-> );
```

Query OK, 0 rows affected (0.685 sec)

```
MariaDB [tugasDB]> create table pendidikan(  
-> idPendidikan integer not null,  
-> idReff varchar(20) not null,  
-> namaSekolah varchar(50) not null,  
-> kota varchar(30) not null,  
-> jenjang varchar(10),  
-> tahunLulus varchar(4),  
-> gelar varchar(10),  
-> primary key (idPendidikan, idReff)  
-> );
```

Query OK, 0 rows affected (0.308 sec)

```
MariaDB [tugasDB]> create table kategoriberita(  
-> idKategori integer not null,  
-> namaKategori varchar(45),  
-> primary key (idKategori)  
-> );
```

Query OK, 0 rows affected (0.395 sec)

```
MariaDB [tugasDB]> create table mahasiswa(  
-> nim varchar(20) not null,  
-> nama varchar(45) not null,  
-> tempatLahir varchar(30) not null,
```

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```
-> tempatLahir varchar(30) not null,  
-> tanggalLahir date not null,  
-> agama varchar(10) not null,  
-> jenisKelamin varchar(10) not null,  
-> kodeProgramStudi varchar(10) not null,  
-> jenjang varchar(4) not null,  
-> angkatan varchar(5) not null,  
-> tanggalmasuk date not null,  
-> namauser varchar(15) not null,  
-> sandiuser varchar(45) not null,  
-> email varchar(75) not null,  
-> biaya integer not null,  
-> status varchar(20) not null,  
-> primary key (nim)  
-> );
```

Query OK, 0 rows affected (0.436 sec)

MariaDB [tugasDB]> create table dosen(
-> nip varchar(20) not null,
-> nama varchar(45) not null,
-> tempatLahir varchar(30) not null,
-> tanggalLahir date not null,
-> agama varchar(20) not null,
-> jenisKelamin varchar(4) not null,
-> status varchar(10) not null,
-> pendidikanTerakhir varchar(4) not null,
-> namauser varchar(10) not null,
-> sandiuser varchar(45) not null,
-> email varchar(75) not null,
-> primary key (nip)
->);

Query OK, 0 rows affected (0.358 sec)

MariaDB [tugasDB]> create table berita(
-> idBerita integer not null,
-> idKategori integer not null,
-> username varchar(50) not null,
-> judul varchar(100) not null,
-> isi_berita text not null,
-> gambar varchar(100) not null,
-> hari varchar(20) not null,
-> tanggal date not null,
-> jam time not null,
-> counter integer not null,

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```
-> counter integer not null,  
-> primary key (idberita, idKategori, username)  
-> );
```

Query OK, 0 rows affected (0.687 sec)

```
MariaDB [tugasDB]> create table programstudi(  
-> kodeProgramStudi varchar(10) not null,  
-> namaProgramStudi varchar(45) not null,  
-> primary key (kodeProgramStudi)  
-> );
```

Query OK, 0 rows affected (0.493 sec)

```
MariaDB [tugasDB]> create table proposalta(  
-> kodeTugasAkhir integer not null,  
-> nim varchar(15) not null,  
-> nimpembimbing1 varchar(15) not null,  
-> nimpembimbing2 varchar(15) not null,  
-> );
```

ERROR 1064 (42000): You have an error in your SQL syntax; check the manual
6

```
MariaDB [tugasDB]> create table proposalta(  
-> kodeTugasAkhir integer not null,  
-> nim varchar(15) not null,  
-> nipPembimbing1 varchar(15) not null,  
-> nipPembimbing2 varchar(15) not null,  
-> judul varchar(50) not null,  
-> tanggalPengajuan date not null,  
-> status varchar(15) not null,  
-> fileProposal varchar(45) not null,  
-> tanggalKeputusan date not null,  
-> penilai varchar(15) not null,  
-> noIjazah varchar(45) not null,  
-> primary key (kodeTugasAkhir)  
-> );
```

Query OK, 0 rows affected (0.567 sec)

```
MariaDB [tugasDB]> create table admin(  
-> username varchar(15) not null,  
-> password varchar(50) not null,  
-> nama_lengkap varchar(100) not null,  
-> email varchar(100) not null,  
-> level varchar(50) not null,  
-> primary key (username)  
-> );
```

```
C:\Windows\system32\cmd.exe - mysql -u root
```

```
Query OK, 0 rows affected (0.251 sec)
```

```
MariaDB [tugasDB]> create table alumni(  
  -> idPekerjaan integer not null,  
  -> nim varchar(10) not null,  
  -> pekerjaan varchar(45) not null,  
  -> namaPerusahaan varchar(100) not null,  
  -> alamatPerusahaan text not null,  
  -> kota varchar(45) not null,  
  -> bagian varchar(45) not null,  
  -> jobdesk text not null,  
  -> jabatan varchar(45) not null,  
  -> tanggalMasuk varchar(45) not null,  
  -> primary key (idPekerjaan)  
  -> );
```

```
Query OK, 0 rows affected (0.489 sec)
```

```
MariaDB [tugasDB]> create table bimbingan(  
  -> id integer not null,  
  -> kodeTugasAkhir varchar(10) not null,  
  -> nip varchar(10) not null,  
  -> tanggal date not null,  
  -> konten decimal not null,  
  -> status varchar(10) not null,  
  -> namaFile varchar(100) not null,  
  -> ukuranFile varchar(15) not null,  
  -> direktori varchar(45) not null,  
  -> primary key (id, kodeTugasAkhir, nip)  
  -> );
```

```
Query OK, 0 rows affected (0.567 sec)
```

```
MariaDB [tugasDB]>
```

A. PENAMBAHAN FOREIGN KEY DALAM DATABASE

```
C:\Windows\system32\cmd.exe - mysql -u root
MariaDB [tugasDB]> alter table alamat
  -> add foreign key(nim) references mahasiswa(nim)
  -> on update cascade on delete cascade;
Query OK, 0 rows affected (1.651 sec)
Records: 0 Duplicates: 0 Warnings: 0

MariaDB [tugasDB]> alter table alamat
  -> add foreign key(nip) references dosen(nip)
  -> on update cascade on delete cascade;
Query OK, 0 rows affected (1.187 sec)
Records: 0 Duplicates: 0 Warnings: 0

MariaDB [tugasDB]> alter table alumni
  -> add foreign key(nim) references mahasiswa(nim)
  -> on update cascade on delete cascade;
Query OK, 0 rows affected (1.138 sec)
Records: 0 Duplicates: 0 Warnings: 0

MariaDB [tugasDB]> alter table berita
  -> add foreign key(username) references admin(username)
  -> on update cascade on delete cascade;
Query OK, 0 rows affected (1.234 sec)
Records: 0 Duplicates: 0 Warnings: 0

MariaDB [tugasDB]> alter table berita
  -> add foreign key(idKategori) references kategoriberita(idKategori)
  -> on update cascade on delete cascade;
Query OK, 0 rows affected (1.358 sec)
Records: 0 Duplicates: 0 Warnings: 0

MariaDB [tugasDB]> alter table bimbingan
  -> add foreign key(nim) references mahasiswa(nim)
  -> on update cascade on delete cascade;
Query OK, 0 rows affected (1.586 sec)
Records: 0 Duplicates: 0 Warnings: 0

MariaDB [tugasDB]> alter table bimbingan
  -> add foreign key(nip) references dosen(nip)
  -> on update cascade on delete cascade;
Query OK, 0 rows affected (1.227 sec)
Records: 0 Duplicates: 0 Warnings: 0

MariaDB [tugasDB]> alter table mahasiswa
  -> add foreign key(kodeProgramStudi) references programstudi(kodeProgramStudi)
```

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```
MariaDB [tugasDB]> alter table mahasiswa
  -> add foreign key(kodeProgramStudi) references programstudi(kodeProgramStudi)
  -> on update cascade on delete cascade;
Query OK, 0 rows affected (0.947 sec)
Records: 0 Duplicates: 0 Warnings: 0

MariaDB [tugasDB]> alter table pendidikan
  -> add foreign key(nim) references mahasiswa(nim)
  -> on update cascade on delete cascade;
Query OK, 0 rows affected (1.167 sec)
Records: 0 Duplicates: 0 Warnings: 0

MariaDB [tugasDB]> alter table pendidikan
  -> add foreign key(nip) references dosen(nip)
  -> on update cascade on delete cascade;
Query OK, 0 rows affected (1.181 sec)
Records: 0 Duplicates: 0 Warnings: 0

MariaDB [tugasDB]> alter proposalta
  -> add foreign key(nip) references dosen(nip)
  -> on update cascade on delete cascade;
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds
add foreign key(nip) references dosen(nip)
on update cascade on delet' at line 1
MariaDB [tugasDB]> alter table proposalta
  -> add foreign key(nip) references dosen(nip)
  -> on update cascade on delete cascade;
Query OK, 0 rows affected (1.371 sec)
Records: 0 Duplicates: 0 Warnings: 0

MariaDB [tugasDB]>
```


2. DATABASE YANG TELAH BERELASI

