

**LAPORAN TUGAS BESAR**  
**DATABASE**

*Diajukan untuk memenuhi syarat kelulusan pada mata kuliah Database I*



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## ➤ Perintah query

```
Command Prompt - mysql -u root
MariaDB [(none)]> create database tugasbesar;
Query OK, 1 row affected (0.002 sec)

MariaDB [(none)]> use tugasbesar;
Database changed
MariaDB [tugasbesar]> create table programstudy(
  -> kodeprogramstudy varchar(30) primary key not null,
  -> namaprogramstudy varchar(25)
  -> );
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MariaDB server version for the right syntax to use near 'key not null,
namaprogramstudy varchar(25)
)' at line 2
MariaDB [tugasbesar]> create table programstudy(
  -> kodeprogramstudy varchar(30) primary key not null,
  -> namaprogramstudy varchar(25)
  -> );
Query OK, 0 rows affected (0.043 sec)

MariaDB [tugasbesar]> create table mahasiswa(
  -> nim varchar(20) primary key not null,
  -> nama varchar(30),
  -> tempatLahir varchar(30),
  -> tanggalLahir date,
  -> agama varchar(10),
  -> jenisKelamin varchar(10),
  -> kodeProgramStudi varchar(10),
  -> jenjang varchar(4),
  -> );
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MariaDB server versi
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```
Command Prompt - mysql -u root
MariaDB [tugasbesar]> create table mahasiswa(
  -> nim varchar(10) primary key not null,
  -> nama varchar(20),
  -> tempatLahir varchar(20),
  -> tanggalLahir date,
  -> agama varchar(10),
  -> jenisKelamin varchar(10),
  -> jenjang varchar(10),
  -> angkatan varchar(10),
  -> tanggalMasuk date,
  -> nomorInduk varchar(15),
  -> sandiInduk varchar(15),
  -> email varchar(20),
  -> biaya int,
  -> status varchar(20),
  -> kodeprogramstudy varchar(30),
  -> foreign key(kodeprogramstudy) references programstudy(kodeprogramstudy)
  -> );
Query OK, 0 rows affected (0.057 sec)

MariaDB [tugasbesar]> create table dosen(
  -> nip varchar(20) primary key not null,
  -> nama varchar(20),
  -> tempatLahir varchar(15),
  -> tanggalLahir date,
  -> agama varchar(10),
  -> jenisKelamin varchar(10),
  -> status varchar(10),
  -> pendidikanTerakhir varchar(15),
  -> nomorInduk varchar(10),
  -> sandiInduk varchar(10),
  -> email varchar(20)
  -> );
Query OK, 0 rows affected (0.039 sec)

MariaDB [tugasbesar]> create table alamat(
  -> idAlamat int primary key not null,
  -> alamat text,
  -> kota varchar(15),
  -> provinsi varchar(25),
  -> kabupaten varchar(10),
  -> kodepos varchar(15),
  -> nopol varchar(15),
  -> email varchar(20),
  -> );
```

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MariaDB [tugasbesar]> create table alamat(
-> idAlamat int primary key not null,
-> alamat text,
-> kota varchar (15),
-> provinsi varchar(15),
-> kabupaten varchar (10),
-> nolok varchar (15),
-> nosp varchar (15),
-> email varchar (20),
-> nim varchar (10),
-> nip varchar (20),
-> foreign key (nim) references mahasiswa (nim),
-> foreign key (nip) references dosen (nip)
-> );
Query OK, 0 rows affected (0.051 sec)

MariaDB [tugasbesar]> create table pendidikan(
-> idPendidikan int primary key not null,
-> namaSekolah varchar(20),
-> kota varchar (10),
-> jenjang varchar (10),
-> tahunulus varchar (20),
-> gelar varchar (20),
-> nim varchar (10),
-> nip varchar(20),
-> foreign key (nim) references mahasiswa (nim),
-> foreign key (nip) references dosen (nip)
-> );
Query OK, 0 rows affected (0.072 sec)

MariaDB [tugasbesar]> create table alumni(
-> idPekerjaan int primary key not null,
-> pekerjaan varchar (15),
-> namaPencapaian varchar (20),
-> alamatPencapaian varchar (20),
-> kota varchar (10),
-> bagian varchar (20),
-> jobdesk text,
-> jabatan varchar (20),
-> tanggalmasuk varchar (15),
-> nim varchar (10),
-> foreign key (nim) references mahasiswa (nim)
-> );
Query OK, 0 rows affected (0.056 sec)

```

```

Query OK, 0 rows affected (0.058 sec)

MariaDB [tugasbesar]> create table himbangan(
-> id int primary key not null,
-> tanggal date,
-> status varchar(20),
-> namafile varchar(10),
-> ukuranfile varchar (10),
-> direktori varchar (10),
-> nim varchar (10),
-> nip varchar (20),
-> foreign key (nim) references mahasiswa (nim),
-> foreign key (nip) references dosen (nip)
-> );
Query OK, 0 rows affected (0.058 sec)

MariaDB [tugasbesar]> create table kategoriberita(
-> idKategori int primary key not null,
-> nama kategori varchar (20)
-> );
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MariaDB server version for the right syntax to use near 'kategori va
rchar (20)
]' at line 2
MariaDB [tugasbesar]> create table kategoriberita(
-> idKategori int primary key not null,
-> namaKategori varchar (20)
-> );
Query OK, 0 rows affected (0.043 sec)

MariaDB [tugasbesar]> create table admin(
-> username varchar (20) primary key not null,
-> password varchar (20),
-> namalengkap varchar(30),
-> email varchar (25),
-> level varchar (10)
-> );
Query OK, 0 rows affected (0.068 sec)

MariaDB [tugasbesar]>
MariaDB [tugasbesar]> create table berita(
-> idBerita int primary key not null,
-> judul varchar (10),
-> isiBerita text,
-> gambar varchar (20),

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--> }};
Query OK, 0 rows affected (0.002 sec)

MariaDB [tugasbesar]>
MariaDB [tugasbesar]> create table berita(
-> idBerita int primary key not null,
-> judul varchar (10),
-> isiBerita text,
-> gambar varchar (20),
-> hari varchar (20),
-> tanggal date,
-> jam time,
-> counter int,
-> idkategori int,
-> username varchar (20),
-> foreign key (idkategori) references kategoriBerita (idkategori),
-> foreign key (username) references admin (username)
-> }};
Query OK, 0 rows affected (0.004 sec)

MariaDB [tugasbesar]> create table proposalta(
-> kodeTugasAkhir int primary key not null,
-> nipPembimbing1 varchar (20),
-> nipPembimbing2 varchar (20),
-> judul varchar(25),
-> tanggalPengajuan date,
-> status varchar (20),
-> fileProposal varchar (20),
-> tanggalPengajuan date,
-> penilai varchar (20),
-> notJazab varchar (30),
-> nim varchar (10),
-> nip varchar (10),
-> username varchar (20),
-> foreign key (nim) references mahasiswa (nim),
-> foreign key (nip) references dosen (nip),
-> foreign key (username) references admin (username)
-> }};
ERROR 1060 (42S21): Duplicate column name 'tanggalPengajuan'
MariaDB [tugasbesar]> create table proposalta(
-> kodeTugasAkhir int primary key not null,
-> nipPembimbing1 varchar (20),
-> nipPembimbing2 varchar (20),
-> judul varchar(25),

```

```

--> kodeTugasAkhir int primary key not null,
-> nipPembimbing1 varchar (20),
-> nipPembimbing2 varchar (20),
-> judul varchar (25),
-> tanggal pengajuan date,
-> status varchar (20),
-> fileProposal varchar (45),
-> tanggalkeputusan date,
-> penilai varchar (20),
-> notJazab varchar (30),
-> nim varchar (10),
-> nip varchar (10),
-> username varchar (20),
-> foreign key (nim) references mahasiswa (nim),
-> foreign key (nip) references dosen (nip),
-> foreign key (username) references admin (username)
-> }};
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MariaDB server version for the right syntax to use near 'varchar (20
),
judul varchar (25),
tanggal pengajuan date,
status varchar (20),...' at line 4
MariaDB [tugasbesar]> create table proposalta(
-> kodeTugasAkhir int primary key not null,
-> nipPembimbing1 varchar (20),
-> nipPembimbing2 varchar (20),
-> judul varchar (25),
-> tanggalpengajuan date,
-> status varchar (20),
-> fileProposal varchar (45),
-> tanggalkeputusan date,
-> penilai varchar (20),
-> notJazab varchar (30),
-> nim varchar (10),
-> nip varchar (10),
-> username varchar (20),
-> foreign key (nim) references mahasiswa (nim),
-> foreign key (nip) references dosen (nip),
-> foreign key (username) references admin (username)
-> }};
Query OK, 0 rows affected (0.000 sec)

MariaDB [tugasbesar]>

```

```
Command Prompt - mysql --u=root
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MariaDB server version for the right syntax to use near 'username varchar (20)
)' at line 1
MariaDB [tugasbesar]> Alter table alamat add foreign key (nip) references dosen(nip);
Query OK, 0 rows affected (0.249 sec)
Records: 0 Duplicates: 0 Warnings: 0

MariaDB [tugasbesar]> Alter table alamat add foreign key (nim) references mahasiswa (nim);
Query OK, 0 rows affected (0.188 sec)
Records: 0 Duplicates: 0 Warnings: 0

MariaDB [tugasbesar]> Alter table pendidikan add foreign key (nim) references mahasiswa (nim);
Query OK, 0 rows affected (0.202 sec)
Records: 0 Duplicates: 0 Warnings: 0

MariaDB [tugasbesar]> Alter table pendidikan add nim varchar (20);
ERROR 1060 (42521): Duplicate column name 'nim'
MariaDB [tugasbesar]> Alter table pendidikan add foreign key (nim) references mahasiswa (nim);
Query OK, 0 rows affected (0.209 sec)
Records: 0 Duplicates: 0 Warnings: 0

MariaDB [tugasbesar]> Alter table pendidikan add foreign key (nip) references dosen(nip);
Query OK, 0 rows affected (0.173 sec)
Records: 0 Duplicates: 0 Warnings: 0

MariaDB [tugasbesar]> Alter table mahasiswa add foreign key (kodeprogramstudy) references programstudy (kodeprogramstudy);
Query OK, 0 rows affected (0.176 sec)
Records: 0 Duplicates: 0 Warnings: 0
```

```
Command Prompt - mysql --u=root
Query OK, 0 rows affected (0.176 sec)
Records: 0 Duplicates: 0 Warnings: 0

MariaDB [tugasbesar]> Alter table alumni add foreign key (nim) references mahasiswa(nim);
Query OK, 0 rows affected (0.206 sec)
Records: 0 Duplicates: 0 Warnings: 0

MariaDB [tugasbesar]> Alter table bimbingan add nim varchar (20);
ERROR 1060 (42521): Duplicate column name 'nim'
MariaDB [tugasbesar]> Alter table bimbingan add foreign key (nim) references mahasiswa(nim);
Query OK, 0 rows affected (0.189 sec)
Records: 0 Duplicates: 0 Warnings: 0

MariaDB [tugasbesar]> Alter table bimbingan add foreign key (nip) references dosen (nip);
Query OK, 0 rows affected (0.205 sec)
Records: 0 Duplicates: 0 Warnings: 0

MariaDB [tugasbesar]> Alter table proposal add foreign key (nip) references dosen (nip);
ERROR 1146 (42502): Table 'tugasbesar.proposal' doesn't exist
MariaDB [tugasbesar]> Alter table proposal add foreign key (nip) references dosen (nip);
ERROR 1146 (42502): Table 'tugasbesar.proposal' doesn't exist
MariaDB [tugasbesar]> Alter table proposalta add foreign key (nip) references dosen (nip);
Query OK, 0 rows affected (0.277 sec)
Records: 0 Duplicates: 0 Warnings: 0

MariaDB [tugasbesar]>
MariaDB [tugasbesar]> alter table proposalta add foreign key (nim) references mahasiswa(nim);
Query OK, 0 rows affected (0.196 sec)
Records: 0 Duplicates: 0 Warnings: 0
```

```
Command Prompt - mysql --u-root
MariaDB [tugasbesar]> Alter table proposal add foreign key (nip) references dosen (nip);
ERROR 1146 (42S02): Table 'tugasbesar.proposal' doesn't exist
MariaDB [tugasbesar]> Alter table proposal add foreign key (nip) references dosen (nip);
ERROR 1146 (42S02): Table 'tugasbesar.proposal' doesn't exist
MariaDB [tugasbesar]> Alter table proposalta add foreign key (nip) references dosen (nip);
Query OK, 0 rows affected (10.277 sec)
Records: 0 Duplicates: 0 Warnings: 0

MariaDB [tugasbesar]>
MariaDB [tugasbesar]> alter table proposalta add foreign key (nim) references mahasiswa(nim);
Query OK, 0 rows affected (0.196 sec)
Records: 0 Duplicates: 0 Warnings: 0

MariaDB [tugasbesar]> Alter table proposalta add foreign key (username) references admin (username);
Query OK, 0 rows affected (0.181 sec)
Records: 0 Duplicates: 0 Warnings: 0

MariaDB [tugasbesar]> Alter table berita add foreign key (username) references admin(username);
Query OK, 0 rows affected (0.194 sec)
Records: 0 Duplicates: 0 Warnings: 0

MariaDB [tugasbesar]> Alter table berita add foreign key (idkategori) references kategoriberita (idkategori);
Query OK, 0 rows affected (0.194 sec)
Records: 0 Duplicates: 0 Warnings: 0

MariaDB [tugasbesar]>
```

## ➤ Relasi Database



