

LAPORAN TUGAS BESAR
MERANCANG DATABASE DENGAN MENGGUNAKAN BAHASA
PEMROGRAMAN SQL



Disusun Oleh :

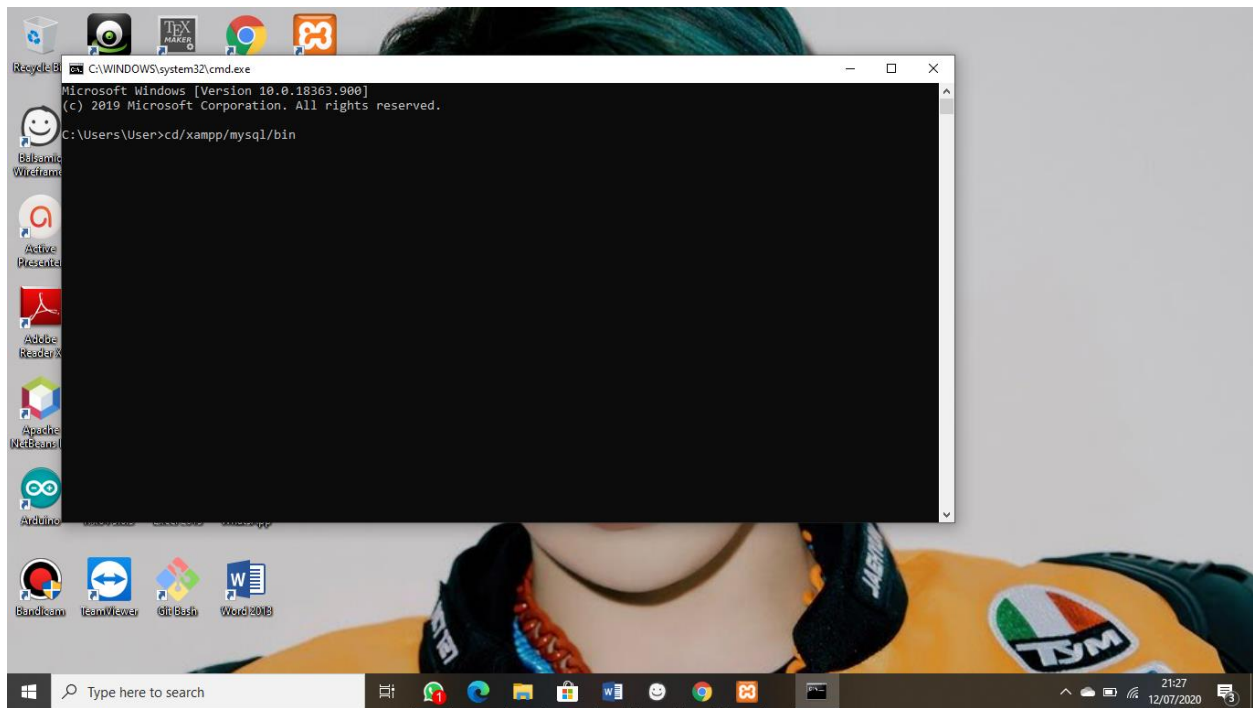
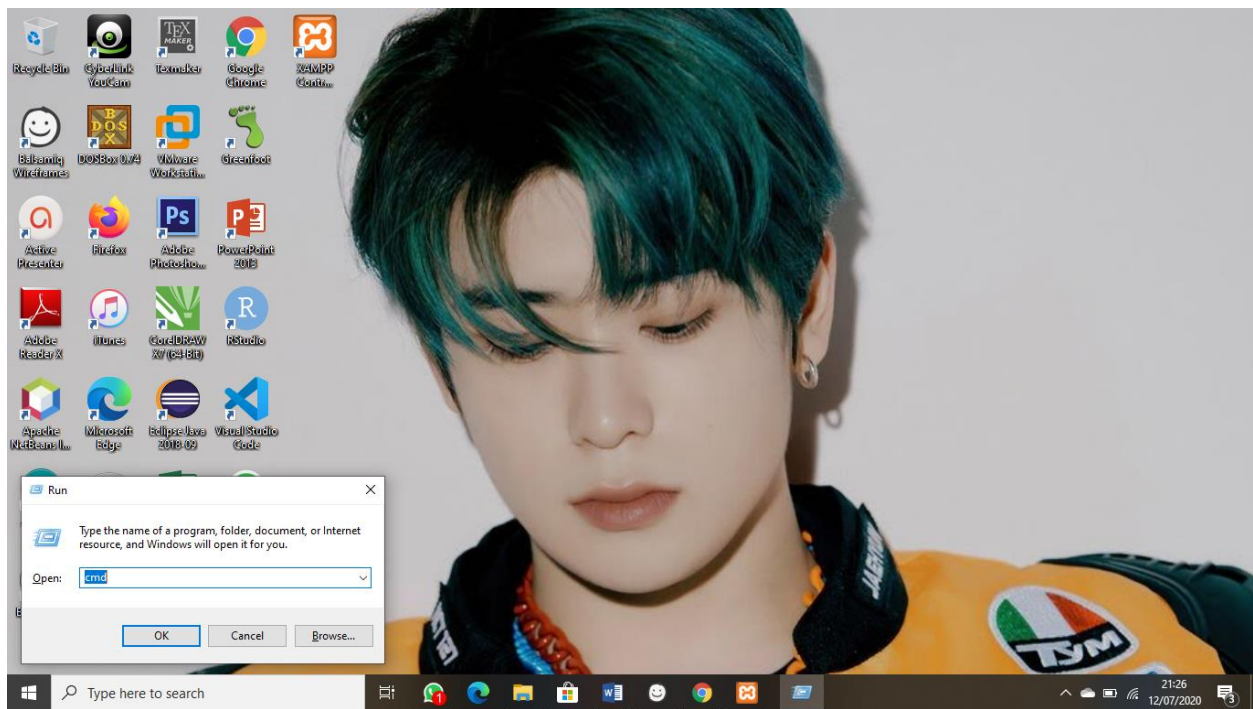
Nur Raisa

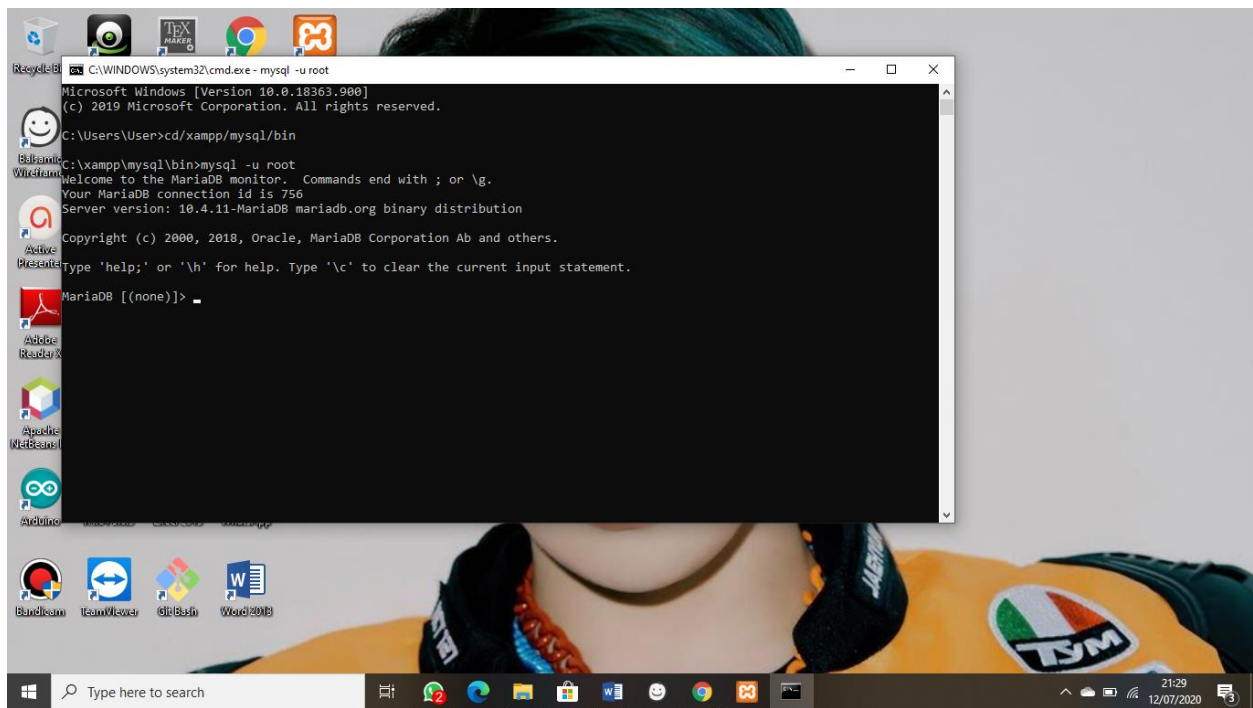
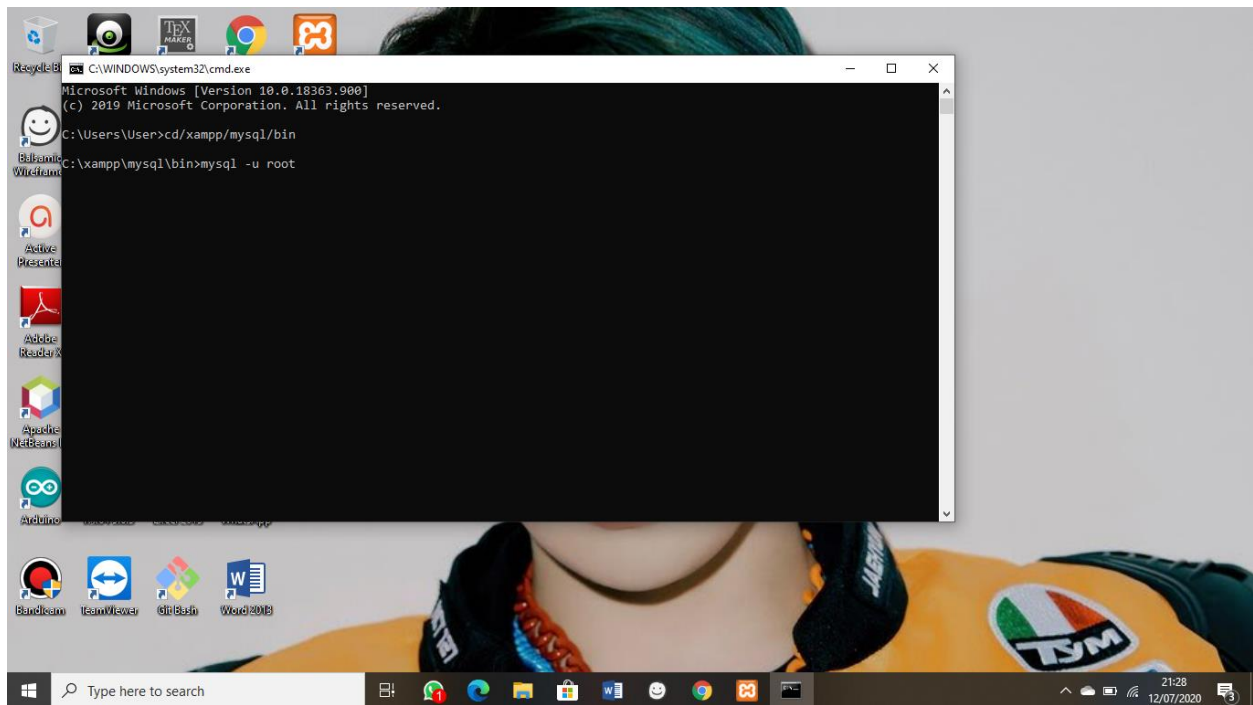
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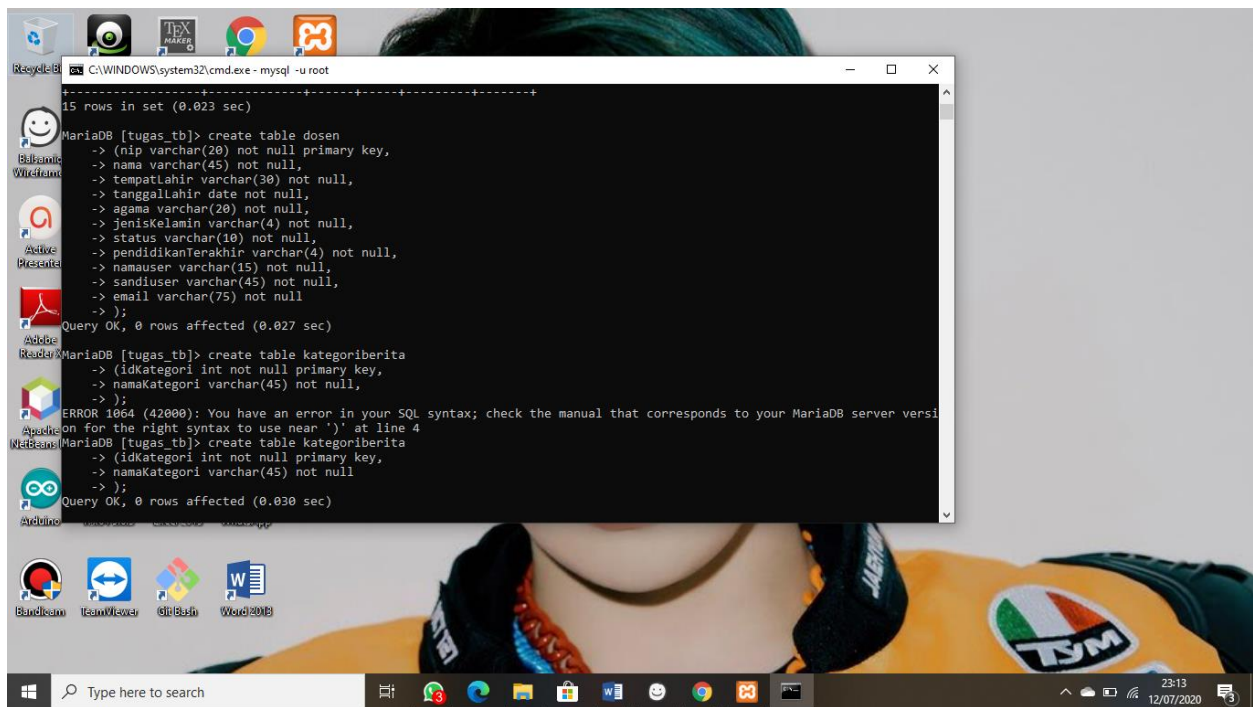
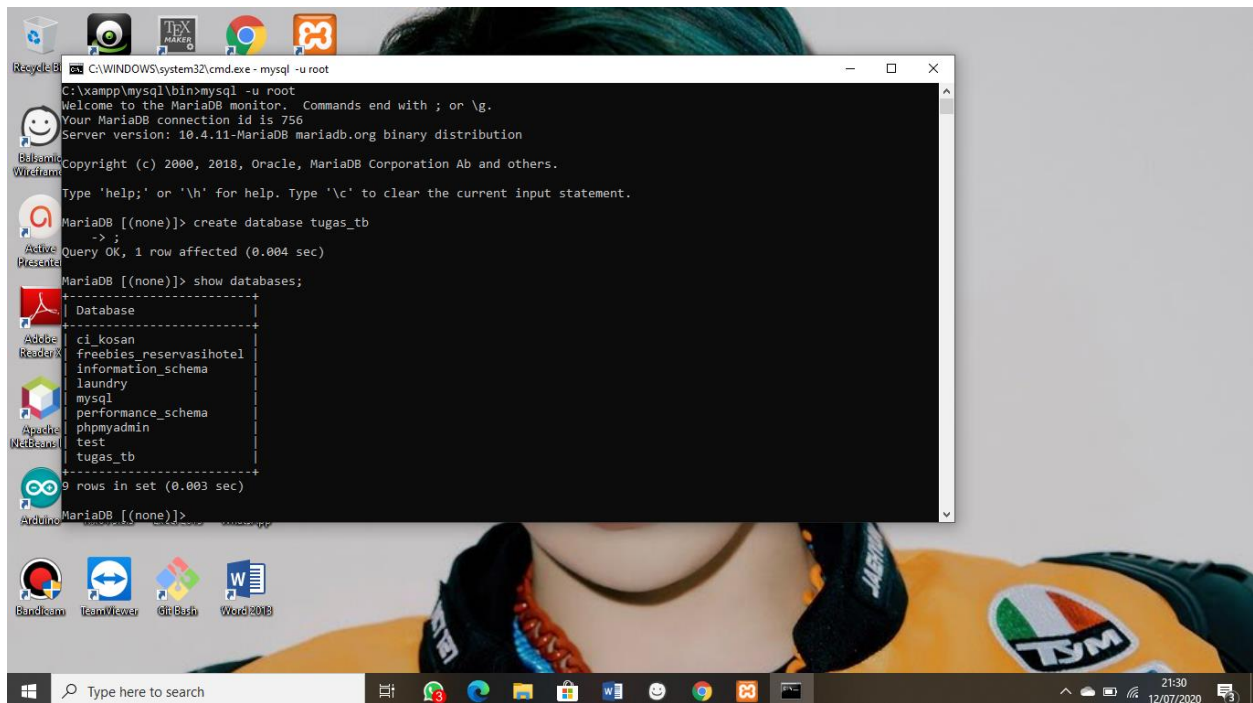
Dosen Pengampu :

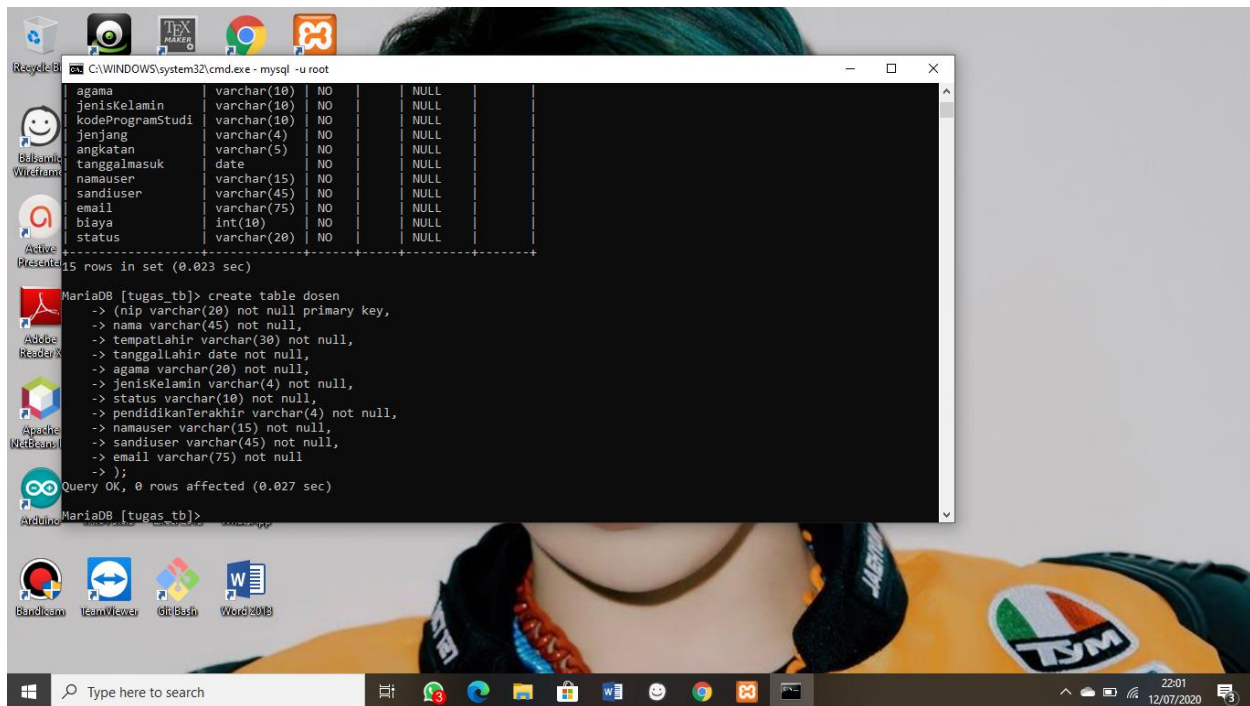
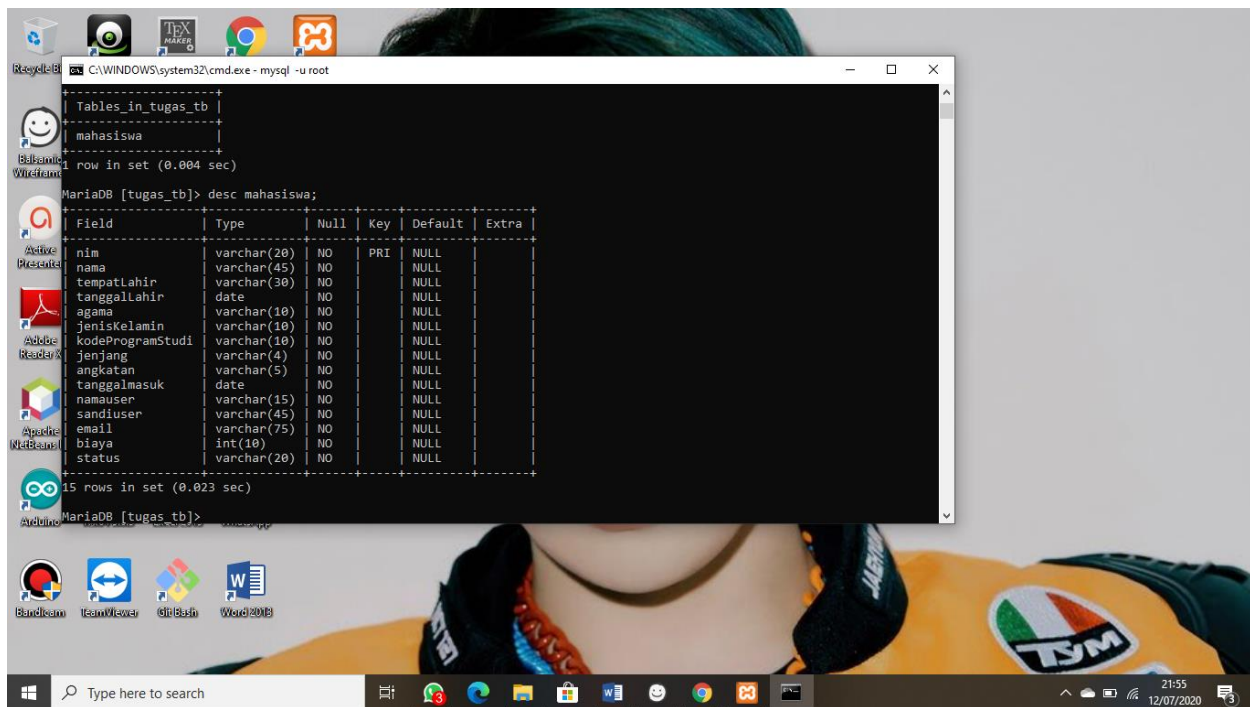
Syafrizal Fachri Pane, S.T.,M.T.I.,EBDP

PROGRAM DIPLOMA IV TEKNIK INFORMATIKA
POLITEKNIK POS INDONESIA
BANDUNG
2020









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

-> status varchar(10) not null,
-> pendidikanterakhir varchar(4) not null,
-> namauser varchar(15) not null,
-> sandiuser varchar(45) not null,
-> email varchar(75) not null
-> );
Query OK, 0 rows affected (0.027 sec)

MariaDB [tugas_tb]> create table kategoriberita
-> (idKategori int not null primary key,
-> namaKategori varchar(45) not null,
-> );
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 ')' at line 4
MariaDB [tugas_tb]> create table kategoriberita
-> (idKategori int not null primary key,
-> namaKategori varchar(45) not null
-> );
Query OK, 0 rows affected (0.030 sec)

MariaDB [tugas_tb]> create table admin
-> (username varchar(15) not null primary key,
-> password varchar(50) not null,
-> nama_lengkap varchar(100) not null,
-> email varchar(100) not null,
-> level varchar(50) not null
-> );
Query OK, 0 rows affected (0.025 sec)

MariaDB [tugas_tb]>
```

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

-> fileProposal varchar(45) not null,
-> tanggalKeputusan date not null,
-> penilai varchar(15) not null,
-> noIjasah varchar(45) not null
-> );
Query OK, 0 rows affected (0.020 sec)

MariaDB [tugas_tb]> create table alumni
-> (idPekerjaan int(5) not null primary key,
-> nim varchar(10) not null,
-> pekerjaan varchar(45) not null,
-> );
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(45) not null,
)' at line 4
MariaDB [tugas_tb]> create table alumni
-> (idPekerjaan int(5) not null,
-> nim varchar(10) not null,
-> pekerjaan varchar(45) not null,
-> namaPerusahaan varchar(45) 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
-> );
Query OK, 0 rows affected (0.022 sec)

MariaDB [tugas_tb]>
```

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

-> pekerjaan varchar(45) not null,
-> namaPerusahaan varchar(45) 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
-> );
Query OK, 0 rows affected (0.022 sec)

MariaDB [tugas_tb]> create table programstudi
-> (kodeProgramStudi varchar(10) not null primary key,
-> namaProgramStudi varchar(45)
-> );
Query OK, 0 rows affected (0.021 sec)

MariaDB [tugas_tb]> create table alamat
-> (idAlamat int(5) not null primary key,
-> alamat text not null,
-> kota varchar(30) not null,
-> provinsi varchar(30) not null,
-> kdpost varchar(5) not null,
-> noHlp varchar(15) not null,
-> noHp varchar(15) not null,
-> email varchar(75) not null
-> );
Query OK, 0 rows affected (0.049 sec)

MariaDB [tugas_tb]>
```

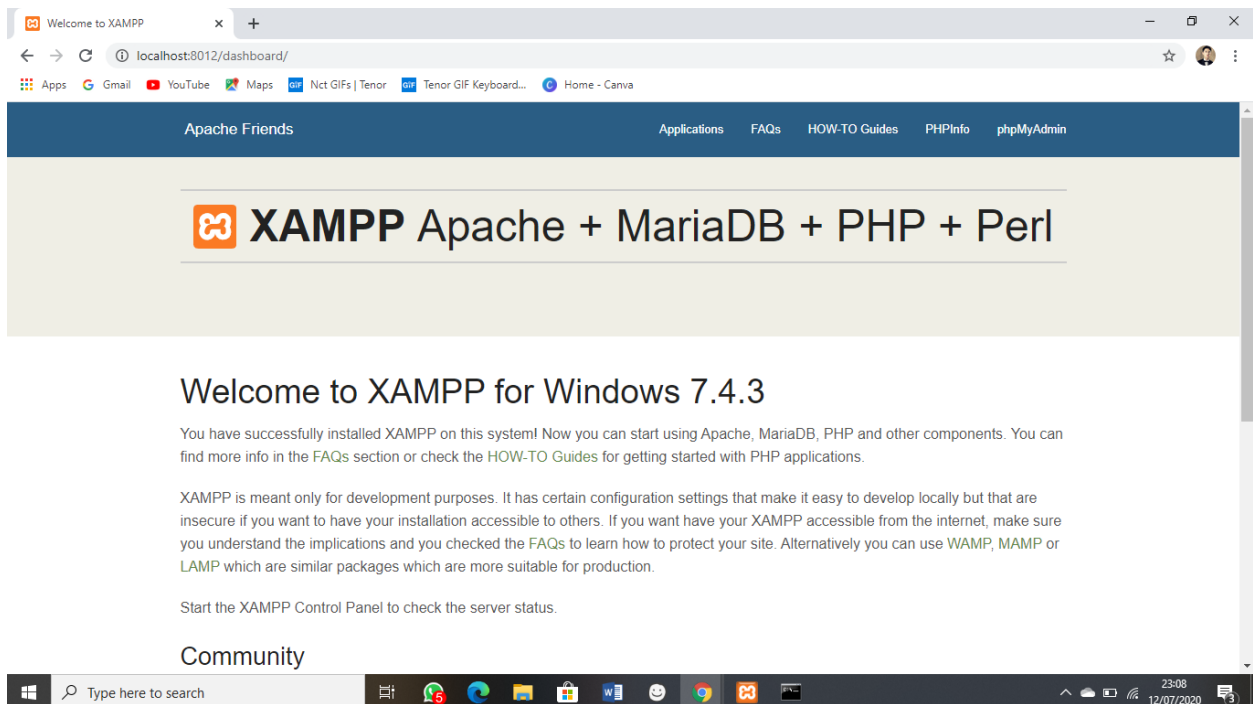
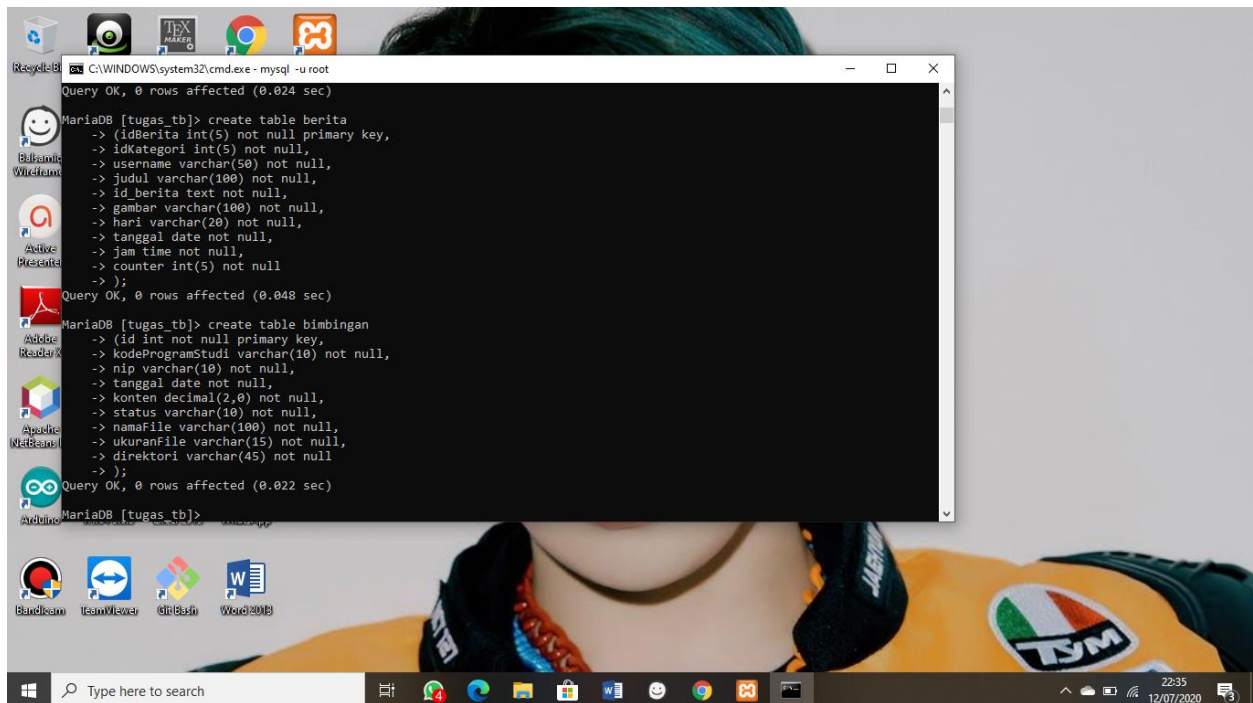
```
C:\WINDOWS\system32\cmd.exe - mysql -u root

-> noHp varchar(15) not null,
-> email varchar(75) not null
-> );
Query OK, 0 rows affected (0.049 sec)

MariaDB [tugas_tb]> create table pendidikan
-> (idPendidikan int(4) not null primary key,
-> namaSekolah varchar(50) not null,
-> kota varchar(30) not null,
-> jenjang varchar(10) not null,
-> tahunLulus varchar(4) not null,
-> gelar varchar(10) not null
-> );
Query OK, 0 rows affected (0.024 sec)

MariaDB [tugas_tb]> create table berita
-> (idBerita int(5) not null primary key,
-> idKategori int(5) not null,
-> username varchar(50) not null,
-> judul varchar(100) not null,
-> idBerita text not null,
-> gambar varchar(100) not null,
-> hari varchar(20) not null,
-> tanggal date not null,
-> jam time not null,
-> counter int(5) not null
-> );
Query OK, 0 rows affected (0.048 sec)

MariaDB [tugas_tb]>
```

localhost:8012 / 127.0.0.1 / tugas: x

localhost:8012/phpmyadmin/db_structure.php?server=1&db=tugas_tb

phpMyAdmin

Recent Favorites

Server: 127.0.0.1 » Database: tugas_tb

Structure SQL Search Query Export Import Operations Privileges Routines Events More

Filters

Containing the word:

Table	Action	Rows	Type	Collation	Size	Overhead
admin	Browse Structure Search Insert Empty Drop	0	InnoDB	utf8mb4_general_ci	16.0 Kib	-
alamat	Browse Structure Search Insert Empty Drop	0	InnoDB	utf8mb4_general_ci	16.0 Kib	-
alumni	Browse Structure Search Insert Empty Drop	0	InnoDB	utf8mb4_general_ci	16.0 Kib	-
berita	Browse Structure Search Insert Empty Drop	0	InnoDB	utf8mb4_general_ci	16.0 Kib	-
bimbingan	Browse Structure Search Insert Empty Drop	0	InnoDB	utf8mb4_general_ci	16.0 Kib	-
dosen	Browse Structure Search Insert Empty Drop	0	InnoDB	utf8mb4_general_ci	16.0 Kib	-
kategoriberita	Browse Structure Search Insert Empty Drop	0	InnoDB	utf8mb4_general_ci	16.0 Kib	-
mahasiswa	Browse Structure Search Insert Empty Drop	0	InnoDB	utf8mb4_general_ci	16.0 Kib	-
pendidikan	Browse Structure Search Insert Empty Drop	0	InnoDB	utf8mb4_general_ci	16.0 Kib	-
programstudi	Browse Structure Search Insert Empty Drop	0	InnoDB	utf8mb4_general_ci	16.0 Kib	-
proposalta	Browse Structure Search Insert Empty Drop	0	InnoDB	utf8mb4_general_ci	16.0 Kib	-
11 tables	Sum		InnoDB	utf8mb4_general_ci	176.0 Kib	0 B

Check all With selected:

Print Data dictionary

Create table

Console

localhost:8012 / 127.0.0.1 / tugas: x

localhost:8012/phpmyadmin/tbl_relation.php?db=tugas_tb&table=alumni

phpMyAdmin

Recent Favorites

Server: 127.0.0.1 » Database: tugas_tb » Table: alumni

Browse Structure SQL Search Insert Export Import Privileges Operations Tracking Triggers

Table structure Relation view

Foreign key constraints

Actions	Constraint properties	Column	Foreign key constraint (InnoDB)		
			Database	Table	Column
Drop	alumni_ibfk_1	nim	tugas_tb	mahasiswa	nim
	ON DELETE	RESTRICT			
	ON UPDATE	RESTRICT			
	Constraint name				
	ON DELETE	RESTRICT			
	ON UPDATE	RESTRICT			

+ Add constraint

+ Internal relationships

Choose column to display: nim

Preview SQL Save

localhost:8012 / 127.0.0.1 / tugas: x

localhost:8012/phpmyadmin/tbl_relation.php?db=tugas_tb&table=berita

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 - berita
 - bimbingan
 - dosen
 - kategoriberita
 - mahasiswa
 - pendidikan
 - programstudi
 - proposalta

Server: 127.0.0.1 » Database: tugas_tb » Table: berita

Browse Structure SQL Search Insert Export Import Privileges Operations Tracking Triggers

Table structure Relation view

Foreign key constraints

Actions	Constraint properties	Column	Foreign key constraint (INNODB)		
			Database	Table	Column
Drop	berita_ibfk_1	idKategori	tugas_tb	kategoriberita	idKategori
	ON DELETE	RESTRICT			
	ON UPDATE	RESTRICT			
		+ Add column			
Drop	berita_ibfk_2	username	tugas_tb	admin	username
	ON DELETE	RESTRICT			
	ON UPDATE	RESTRICT			
		+ Add column			
	Constraint name				
	ON DELETE	RESTRICT			
	ON UPDATE	RESTRICT			
		+ Add constraint			

+ Internal relationships

Console

localhost:8012 / 127.0.0.1 / tugas: x

localhost:8012/phpmyadmin/tbl_relation.php?db=tugas_tb&table=bimbingan

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 - mahasiswa
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Server: 127.0.0.1 » Database: tugas_tb » Table: bimbingan

Browse Structure SQL Search Insert Export Import Privileges Operations Tracking Triggers

Table structure Relation view

Foreign key constraints

Actions	Constraint properties	Column	Foreign key constraint (INNODB)		
			Database	Table	Column
Drop	bimbingan_ibfk_1	kodeProgramStu	tugas_tb	programstudi	kodeProgramStu
	ON DELETE	RESTRICT			
	ON UPDATE	RESTRICT			
		+ Add column			
Drop	bimbingan_ibfk_2	nip	tugas_tb	dosen	nip
	ON DELETE	RESTRICT			
	ON UPDATE	RESTRICT			
		+ Add column			
	Constraint name				
	ON DELETE	RESTRICT			
	ON UPDATE	RESTRICT			
		+ Add constraint			

+ Internal relationships

Console

localhost:8012 / 127.0.0.1 / tugas: x

localhost:8012/phpmyadmin/tbl_relation.php?db=tugas_tb&table=dosen

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 - alumni
 - berita
 - bimbingan
 - dosen
 - kategoriberita
 - mahasiswa
 - pendidikan
 - programstudi
 - proposalta

Server: 127.0.0.1 » Database: tugas_tb » Table: dosen

Browse Structure SQL Search Insert Export Import Privileges Operations Tracking Triggers

Table structure Relation view

Foreign key constraints

Actions	Constraint properties	Column	Foreign key constraint (InnoDB)		
			Database	Table	Column
Drop	dosen_ibfk_1	idPendidikan	tugas_tb	pendidikan	idPendidikan
	ON DELETE	RESTRICT			
	ON UPDATE	RESTRICT			
		+ Add column			
Drop	dosen_ibfk_2	idAlamat	tugas_tb	alamat	idAlamat
	ON DELETE	RESTRICT			
	ON UPDATE	RESTRICT			
		+ Add column			
	Constraint name				
	ON DELETE	RESTRICT			
	ON UPDATE	RESTRICT			
		+ Add constraint			
+ Internal relationships					

Console

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localhost:8012/phpmyadmin/tbl_relation.php?db=tugas_tb&table=mahasiswa

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 - mahasiswa
 - pendidikan
 - programstudi
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Server: 127.0.0.1 » Database: tugas_tb » Table: mahasiswa

Browse Structure SQL Search Insert Export Import Privileges Operations Tracking Triggers

Table structure Relation view

Foreign key constraints

Actions	Constraint properties	Column	Foreign key constraint (InnoDB)		
			Database	Table	Column
Drop	mahasiswa_ibfk_1	idPendidikan	tugas_tb	pendidikan	idPendidikan
	ON DELETE	RESTRICT			
	ON UPDATE	RESTRICT			
		+ Add column			
Drop	mahasiswa_ibfk_2	kodeProgramStudi	tugas_tb	programstudi	kodeProgramStudi
	ON DELETE	RESTRICT			
	ON UPDATE	RESTRICT			
		+ Add column			
Drop	mahasiswa_ibfk_3	idAlamat	tugas_tb	alamat	idAlamat
	ON DELETE	RESTRICT			
	ON UPDATE	RESTRICT			
		+ Add column			
	Constraint name				
	ON DELETE	RESTRICT			
	ON UPDATE	RESTRICT			
		+ Add constraint			
+ Internal relationships					

Console

localhost:8012 / tugas x

localhost:8012/phpmyadmin/tbl_relation.php?db=tugas_tb&table=proposalta

phpMyAdmin

Server: 127.0.0.1 » Database: tugas_tb » Table: proposalta

Table structure Relation view

Foreign key constraints

Actions	Constraint properties	Column	Foreign key constraint (INNODB)
		Database	Table
Drop	proposalta_ibfk_1	nip	tugas_tb dosen nip
	ON DELETE RESTRICT		
	ON UPDATE RESTRICT		
Drop	proposalta_ibfk_2	nim	tugas_tb mahasiswa nim
	ON DELETE RESTRICT		
	ON UPDATE RESTRICT		
	Constraint name		
	ON DELETE RESTRICT		
	ON UPDATE RESTRICT		

+ Add constraint

+ Internal relationships

Console

localhost:8012 / tugas x

localhost:8012/phpmyadmin/db_designer.php?db=tugas_tb

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Server: 127.0.0.1 » Database: tugas_tb

Structure SQL Search Query Export Import Operations Privileges Routines Events More

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tugas_tb

- tugas_tb alamat
 - idAlamat : int(5)
 - alamat : text
 - kota : varchar(30)
 - provinsi : varchar(30)
 - kdpost : varchar(5)
 - noTelp : varchar(15)
 - noHp : varchar(15)
 - email : varchar(75)
- tugas_tb pendidikan
 - idPendidikan : int(4)
 - namaSekolah : varchar(50)
 - kota : varchar(30)
 - jenjang : varchar(10)
 - tahunLulus : varchar(4)
 - gelar : varchar(10)
- tugas_tb kategoriberita
 - idKategori : int(11)
 - namaKategori : varchar(45)
- tugas_tb mahasiswa
 - nim : varchar(20)
 - idPendidikan : int(11)
 - kodeProgramStudi : varchar(10)
 - idAlamat : int(11)
 - nama : varchar(45)
 - tempatLahir : varchar(30)
 - tanggalLahir : date
 - agama : varchar(10)
 - jenisKelamin : varchar(10)
 - jenjang : varchar(4)
 - angkatan : varchar(5)
 - tanggalMasuk : date
 - namauser : varchar(15)
 - sanduser : varchar(45)
 - email : varchar(75)
 - biaya : int(10)
 - status : varchar(20)
- tugas_tb dosen
 - nip : varchar(20)
 - idPendidikan : int(11)
 - idAlamat : int(11)
 - nama : varchar(45)
 - tempatLahir : varchar(30)
 - tannnailahir : date
- tugas_tb programstudi
 - kodeProgramStudi : varchar(10)
 - namaProgramStudi : varchar(45)
- tugas_tb proposalta
 - kodeTugasAkhir : int(5)
 - nip : varchar(20)
 - nim : varchar(15)
 - nipPembimbing1 : varchar(15)
 - nipPembimbing2 : varchar(15)
 - judul : varchar(50)
 - tanggalPengajuan : date
 - status : varchar(15)
 - fileProposal : varchar(45)
- tugas_tb alumni
 - idPekerjaan : int(5)
 - nim : varchar(10)
 - pekerjaan : varchar(45)
 - namaPerusahaan : varchar(100)
 - alamatPerusahaan : text
 - kota : varchar(45)
 - bagian : varchar(45)
 - jabatan : varchar(45)
 - jobdesk : text
 - tanggalMasuk : varchar(45)
- tugas_tb bimbingan
 - id : int(11)
 - kodeProgramStudi : varchar(10)
 - nip : varchar(10)
 - tanggal : date
 - konten : decimal(2,0)
 - status : varchar(10)
 - namaFile : varchar(100)
 - ukuranFile : varchar(15)
 - direktori : varchar(45)

localhost:8012 / 127.0.0.1 / tugas: x

localhost:8012/phpmyadmin/db_designer.php?db=tugas_tb

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 - mahasiswa
 - pendidikan
 - programstudi
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Server: 127.0.0.1 » Database: tugas_tb

Structure SQL Search Query Export Import Operations Privileges Routines Events More

tugas.tb kategoriberita

- idKategori : int(11)
- namaKategori : varchar(45)

tugas.tb dosen

- nip : varchar(20)
- idPendidikan : int(11)
- idAlamat : int(11)
- nama : varchar(45)
- tempatLahir : varchar(30)
- tanggalLahir : date
- agama : varchar(20)
- jenisKelamin : varchar(4)
- status : varchar(10)
- pendidikanTerakhir : varchar(4)
- namauser : varchar(15)
- sandiuser : varchar(45)
- email : varchar(75)

tugas.tb berita

- idBerita : int(5)
- idKategori : int(5)
- username : varchar(50)
- judul : varchar(100)
- id_berita : text
- gambar : varchar(100)
- hari : varchar(20)
- tanggal : date
- jam : time
- counter : int(5)

tugas.tb admin

- username : varchar(15)
- password : varchar(50)
- nama_lengkap : varchar(100)
- email : varchar(100)
- level : varchar(50)

tugas.tb mahasiswa

- nim : varchar(15)
- nipPembimbing1 : varchar(15)
- nipPembimbing2 : varchar(15)
- judul : varchar(50)
- tanggalPengajuan : date
- status : varchar(15)
- fileProposal : varchar(45)
- tanggalKeputusan : date
- penilai : varchar(15)
- noljasa : varchar(45)

tugas.tb dosen

- status : varchar(10)
- namaFile : varchar(100)
- ukuranFile : varchar(15)
- direktori : varchar(45)

Console

Type here to search

23:05 12/07/2020