TUGAS

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NIM: 2231750011

Soal No. 8 Tambahkan sebuah kolom agama (varchar(10)) pada tabel mahasiswa sebagai kolom terakhir

```
mysql> ALTER TABLE mahasiswa ADD COLUMN agama varchar(10) AFTER kode_prodi;
Query OK, 0 rows affected (0.02 sec)
Records: 0 Duplicates: 0 Warnings: 0
```

Soal No. 9 Tambahkan kolom alamat(varchar(50)) pada tabel dosen sebagai kolom terakhir

```
mysql> ALTER TABLE dosen ADD COLUMN alamat varchar(50) AFTER no_hp;
Query OK, 0 rows affected (0.01 sec)
Records: 0 Duplicates: 0 Warnings: 0
```

Soal No. 10 Lakukan insert data ke dalam tabel-tabel yang ada pada pada database db_polinema sesuai dengan field, tipe data dan panjang datanya

```
mysql> INSERT INTO prodi (kode_prodi, nama_prodi) VALUES ('Pro001', 'Informatika');
Query OK, 1 row affected (0.00 sec)

mysql> INSERT INTO mahasiswa (nim, nama_mhs, jenis_kelamin, alamat, kota, asal_sma, no_hp, umur, kode_prodi, agama) VALUES ('31750007', 'Wildani Danial Nafis', 'L', 'Bu
lulawang', 'Malang', 'Man 1 Malang', '09218722', '17', 'Pro001', 'Islam');
Query OK, 1 row affected (0.00 sec)

mysql> INSERT INTO mata kuliah (mk_id, nama_mk, jumlah_jam, sks) VALUES ('Mk001', 'Basis Data', '5', '20');
Query OK, 1 row affected (0.00 sec)

mysql> INSERT INTO ruang (ruang_id, nama_ruang, kapasitas) VALUES ('R01', 'Ruang Praktek', '30');
Query OK, 1 row affected (0.00 sec)

mysql> INSERT INTO dosen (nidn, nama_dosen, status, jenis_kelamin, no_hp) VALUES ('872232221', 'Vana', 'PNS', 'P', '02189198');
Query OK, 1 row affected (0.00 sec)

mysql> INSERT INTO dosen (nidn, nama_dosen, status, jenis_kelamin, no_hp, alamat) VALUES ('872232221', 'Vana', 'PNS', 'P', '02189198', 'Medan');
Query OK, 1 row affected (0.00 sec)

mysql> INSERT INTO dosen (nidn, nama_dosen, status, jenis_kelamin, no_hp, alamat) VALUES ('872232221', 'Vana', 'PNS', 'P', '02189198', 'Medan');
Query OK, 1 row affected (0.00 sec)
```

Soal No. 11 Tampilkan semua tabel yang ada didalam database db polinema

Soal no. 12 Tampilkan semua isi tabel yang ada didalam tabel mahasiswa

Soal no. 13 Tampilkan struktur(metadata) tabel mahasiswa

```
mysql> DESC mahasiswa;
 Field
                                     | Null | Key | Default | Extra |
                    Type
 nim
                    int
                                      NO
                                               PRI
                                                      NULL
                    varchar(50)
enum('L','P')
varchar(50)
 nama_mhs
                                                      NULL
 jenis_kelamin
 alamat
                                       YES
                                                      NULL
                    varchar(20)
varchar(12)
                                       YES
                                                      malang
 kota
 no_hp
                                                      NULL
 umur
                    int
                                                      NULL
 kode_prodi
                    char(6)
                                               MUL
                                                      NULL
                   varchar(10)
 agama
                                                      NULL
 rows in set (0.02 sec)
mysql> 🕳
```

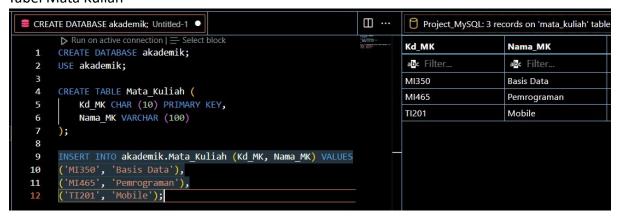
Soal no. 14 hilangkan kolom asal_sma yang terdapat didalam tabel mahasiswa

```
mysql> ALTER TABLE mahasiswa DROP COLUMN asal_sma;
Query OK, 0 rows affected (0.02 sec)
Records: 0 Duplicates: 0 Warnings: 0
mysql> _
```

1. a. Tabel Mahasiswa

```
■ CREATE DATABASE akademik; Untitled-1
                                                                             □ …
                                                                                        Project_MySQL: 5 records on 'mahasiswa' table
        No_Mhs
                                                                                                              Nama_mhs
        CREATE DATABASE akademik;
                                                                                       abc Filter
                                                                                                               abc Filter.
       USE akademik;
                                                                                       1921001
                                                                                                              Aminah
        CREATE TABLE Mahasiswa (
  4
                                                                                       1921002
                                                                                                              Budiman
             No_Mhs CHAR (10) PRIMARY KEY,
                                                                                       1921003
                                                                                                              Carina
             Nama mhs VARCHAR (100)
  6
                                                                                       1921004
                                                                                                              Della
  8
                                                                                       1921005
                                                                                                              Firda
        INSERT INTO Mahasiswa (No_Mhs, Nama_mhs) VALUES
        ('1921001', 'Aminah'),
  10
        ('1921001', 'Aminan'),
('1921002', 'Budiman'),
('1921003', 'Carina'),
('1921004', 'Della'),
('1921005', 'Firda');
  12
  13
```

Tabel Mata Kuliah



Tabel Nilai

```
ALTER TABLE akademik.nilai

ADD FOREIGN KEY (No_Mhs) REFERENCES mahasiswa (No_Mhs),

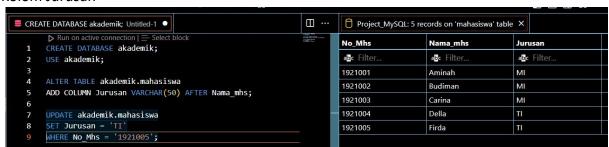
ADD FOREIGN KEY (Kd_MK) REFERENCES mata_kuliah (Kd_MK);

Till nilai + ①

No_Mhs CHAR(10)

Charked MK VARCHAR(100)
```

Kolom Jurusan



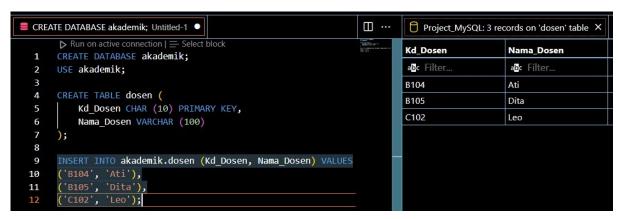
b. Kolom dosen pada tabel Mata Kuliah



c. Kolom nilai pada tabel Nilai



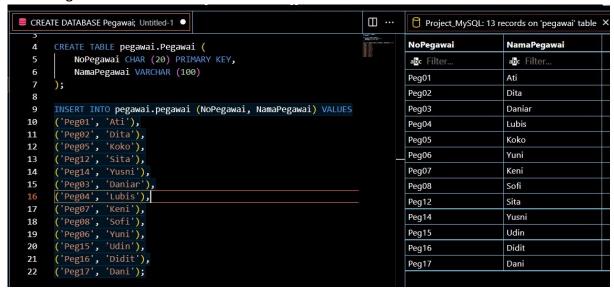
d. Tabel Dosen



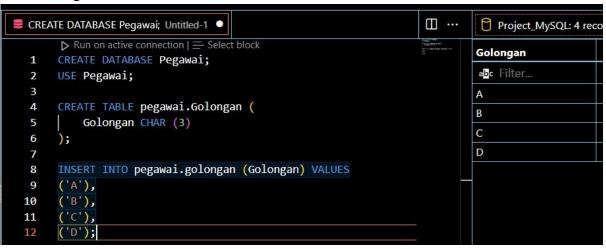
Tampilan Semua Tabel

```
mysql> SELECT * FROM dosen;
| Kd_Dosen | Nama_Dosen |
 B104
             Ati
 B105
             Dita
C102
             Leo
3 rows in set (0.00 sec)
mysql> SELECT * FROM mahasiswa;
| No_Mhs
          | Nama_mhs | Jurusan |
 1921001
                       MI
            Aminah
 1921002
            Budiman
                       MI
 1921003
                       MI
           Carina
 1921004 | Della
                       TI
| 1921005 | Firda
                     | TI
5 rows in set (0.00 sec)
mysql> SELECT * FROM mata_kuliah;
| Kd_MK | Nama_MK
                      | Kd_Dosen |
 MI350
          Basis Data
                        B104
 MI465
                        B105
          Pemrograman
                       C102
| TI201 | Mobile
3 rows in set (0.00 sec)
mysql> SELECT * FROM nilai;
| No_Mhs
          | Kd_MK | nilai |
 1921001
           MI350
                       85
 1921002
           MI465
                       87
                       85
 1921003
           MI465
 1921004
            TI201
                       78
 1921005 |
           TI201
                       80
```

2. a. Tabel Pegawai



Tabel Golongan



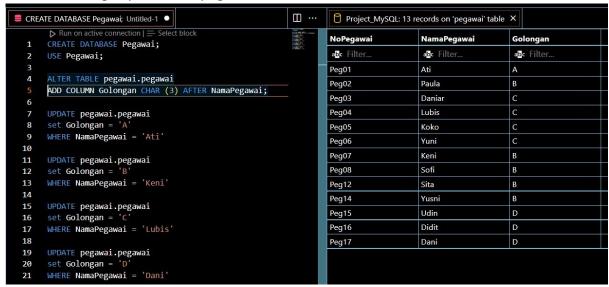
Tabel Proyek

```
Ⅲ …
🛢 CREATE DATABASE Pegawai; Untitled-1 🍳
                                                                                Project_MySQL: 5 recor
        ▶ Run on active connection | = Select block
                                                                               NoProyek
       CREATE DATABASE Pegawai;
                                                                                abc Filter.
  2
       USE Pegawai;
                                                                               NP001
       CREATE TABLE pegawai.Proyek (
                                                                               NP002
  5
           NoProyeK CHAR (20) PRIMARY KEY
                                                                               NP003
  6
       );
                                                                               NP004
       INSERT INTO pegawai.proyek (NoProyeK) VALUES
  8
                                                                               NP005
  9
       ('NP001'),
       ('NP002'),
 10
       ('NP003'),
 11
 12
       ('NP004'),
       ('NP005');
```

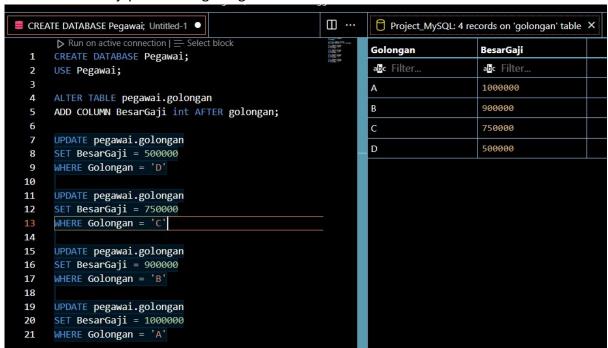
Tabel Proyek Pegawai



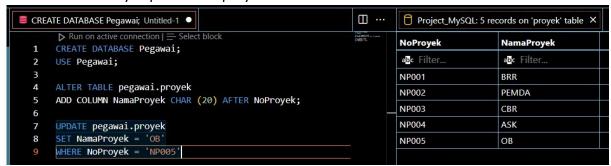
b. Kolom Golongan pada tabel pegawai

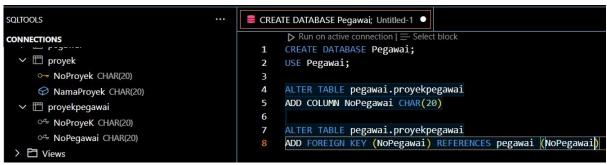


c. Kolom Besar Gaji pada Tabel golongan



d. Kolom NamaProyek pada tabel proyek





e. Kolom NoPegawai pada tabel ProyekPegawai

```
Foreign Key
```

f. Data pada setiap tabel



Project_MySQL: 5 records on 'proj ···		Project_MySQL: 13 records on 'pegawai' table ×			Project_MySQL: 4 records on 'golong		Project_MySQL: 15 records on 'proyekpegawai' table ×		
NoProyek	NamaProyek	NoPegawai	NamaPegawai	Golongan	Golongan	BesarGaji	NoProyeK	NoPegawai	
abc Filter	abc Filter	a <mark>b</mark> c Filter	abc Filter	a <mark>b</mark> c Filter	a <mark>b</mark> c Filter	abc Filter	a <mark>b</mark> c Filter	abc Filter	
NP001	BRR	Peg01	Ati	A	A	1000000	NP001	Peg01	
NP002	PEMDA	Peg02	Paula	В	В	900000	NP001	Peg02	
NP003	CBR	Peg03	Daniar	С	C	750000	NP001	Peg05	
NP004	ASK	Peg04	Lubis	С			NP002	Peg01	
NP005	ОВ	Peg05	Koko	С	D	500000	NP002	Peg12	
		Peg06	Yuni	С			NP002	Peg14	
		Peg07	Keni	В			NP003	Peg02	
		Peg08	Sofi	В			NP003	Peg03	
		Peg12	Sita	В			NP003	Peg04	
		Peg14	Yusni	В			NP004	Peg07	
		Peg15	Udin	D			NP004	Peg08	
		Peg16	Didit	D			NP004	Peg06	
		Peg17	Dani	D			NP005	Peg15	
							NP005	Peg16	
							NP005	Peg17	