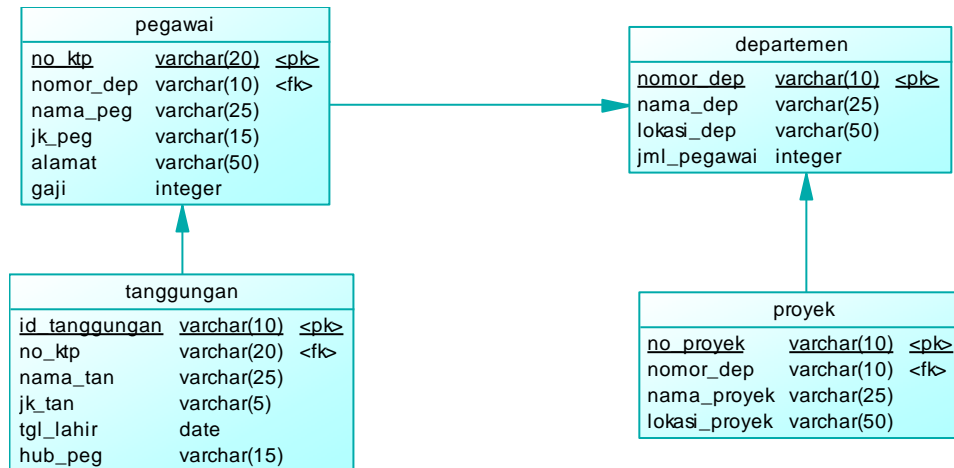


ACC PRAKTIKUM BASIS DATA

MODUL 2, 3 & 4: DDL & DML

Sistem Informasi Perusahaan Jaya Abadi



(Untuk soal no 1 & 2)

1. Buatlah database sistem informasi perusahaan di atas! (poin: 5)

```
MariaDB [(none)]> create database sistem_infor;  
Query OK, 1 row affected (0.002 sec)
```

2. Buatlah semua tabel yang terdapat pada sistem informasi perusahaan diatas kemudian tampilkan daftar tabel yang telah dibuat! (poin: 30)

Departemen

```
MariaDB [(none)]> use sistem_infor;  
Database changed  
MariaDB [sistem_infor]> create table departemen(nomor_dep varchar(10) primary key,  
y, nama_dep varchar (25), lokasi_dep varchar(50), jml_pegawai integer);  
Query OK, 0 rows affected (0.261 sec)
```

Pegawai

```
MariaDB [sistem_infor]> create table pegawai(no_ktp varchar(20) primary key,  
-> nomor_dep varchar(10),  
-> jk_peg varchar (15),  
-> alamat varchar (50),  
-> gaji integer);  
Query OK, 0 rows affected (0.547 sec)  
  
MariaDB [sistem_infor]> alter table pegawai add foreign key (nomor_dep) references departemen (nomor_dep);  
Query OK, 0 rows affected (0.977 sec)  
Records: 0 Duplicates: 0 Warnings: 0
```

ACC PRAKTIKUM BASIS DATA

MODUL 2, 3 & 4: DDL & DML

Tanggungan

```
MariaDB [sistem_infor]> create table tanggungan(id_tanggungan varchar (10),
-> no_ktp varchar(20),
-> nama_tan varchar (25),
-> jk_tan varchar (25),
-> tgl_lahir date,
-> hub_peg varchar (15));
Query OK, 0 rows affected (0.535 sec)

MariaDB [sistem_infor]> alter table tanggungan add foreign key (no_ktp) references pegawai(no_ktp);
Query OK, 0 rows affected (1.040 sec)
Records: 0 Duplicates: 0 Warnings: 0

MariaDB [sistem_infor]>
```

```
MariaDB [sistem_infor]> alter table tanggungan add primary key(id_tanggungan);
Query OK, 0 rows affected (0.884 sec)
Records: 0 Duplicates: 0 Warnings: 0

MariaDB [sistem_infor]> hub_peg varchar (15));
```

Proyek

```
MariaDB [sistem_infor]> create table proyek (no_proyek varchar (10) primary key,
-> nomor_dep varchar (10),
-> nama_proyek varchar (25),
-> lokasi_proyek varchar(50));
Query OK, 0 rows affected (0.262 sec)

MariaDB [sistem_infor]> alter table proyek add foreign key (nomor_dep) references departemen(nomor_dep);
Query OK, 0 rows affected (1.356 sec)
Records: 0 Duplicates: 0 Warnings: 0

MariaDB [sistem_infor]>
```

Tampilan

```
Administrator: Command Prompt - mysql -u root

+----+-----+-----+-----+-----+-----+
| Field | Type | Null | Key | Default | Extra |
+----+-----+-----+-----+-----+-----+
| nomor_dep | varchar(10) | NO | PRI | NULL |  |
| nama_dep | varchar(25) | YES | MUL | NULL |  |
| lokasi_dep | varchar(50) | YES |  | NULL |  |
| jml_pegawai | int(11) | YES |  | NULL |  |
+----+-----+-----+-----+-----+-----+
4 rows in set (0.014 sec)

MariaDB [sistem_infor]> desc pegawai;
+----+-----+-----+-----+-----+-----+
| Field | Type | Null | Key | Default | Extra |
+----+-----+-----+-----+-----+-----+
| no_ktp | varchar(20) | NO | PRI | NULL |  |
| nomor_dep | varchar(10) | YES | MUL | NULL |  |
| jk_peg | varchar(15) | YES |  | NULL |  |
| alamat | varchar(50) | YES |  | NULL |  |
| gaji | int(11) | YES |  | NULL |  |
+----+-----+-----+-----+-----+-----+
5 rows in set (0.010 sec)

MariaDB [sistem_infor]> desc tanggungan;
+----+-----+-----+-----+-----+-----+
| Field | Type | Null | Key | Default | Extra |
+----+-----+-----+-----+-----+-----+
| id_tanggungan | varchar(10) | NO | PRI | NULL |  |
| no_ktp | varchar(20) | YES | MUL | NULL |  |
| nama_tan | varchar(25) | YES |  | NULL |  |
| jk_tan | varchar(25) | YES |  | NULL |  |
| tgl_lahir | date | YES |  | NULL |  |
| hub_peg | varchar(15) | YES |  | NULL |  |
+----+-----+-----+-----+-----+-----+
6 rows in set (0.009 sec)

MariaDB [sistem_infor]> desc proyek;
+----+-----+-----+-----+-----+-----+
| Field | Type | Null | Key | Default | Extra |
+----+-----+-----+-----+-----+-----+
| no_proyek | varchar(10) | NO | PRI | NULL |  |
| nomor_dep | varchar(10) | YES | MUL | NULL |  |
| nama_proyek | varchar(25) | YES |  | NULL |  |
| lokasi_proyek | varchar(50) | YES |  | NULL |  |
+----+-----+-----+-----+-----+-----+
4 rows in set (0.009 sec)
```

ACC PRAKTIKUM BASIS DATA

MODUL 2, 3 & 4: DDL & DML

Tabel Departemen

nomor_dep	nama_dep	lokasi_dep	jml_pegawai
D001	Keuangan	Pattimura	20
D002	Resepsionis	Pati Unus	15
D003	Kepegawaian	Letjen	30
D004	Pemasaran	Pattimura	50
D005	Administrasi	Letnan	80

3. Masukkan 4 data di atas pada table departemen! Dan tampilkan datanya! (poin: 10)

```
Administrator: Command Prompt - mysql -u root
+----+-----+-----+-----+-----+-----+
| tgl_lahir | date | YES | NULL |
| hub_peg  | varchar(15) | YES | NULL |
+----+-----+-----+-----+-----+-----+
6 rows in set (0.009 sec)

MariaDB [sistem_infor]> desc proyek;
+----+-----+-----+-----+-----+-----+
| Field | Type | Null | Key | Default | Extra |
+----+-----+-----+-----+-----+-----+
| no_proyek | varchar(10) | NO | PRI | NULL |
| nomor_dep | varchar(10) | YES | MUL | NULL |
| nama_proyek | varchar(25) | YES | NULL |
| lokasi_proyek | varchar(50) | YES | NULL |
+----+-----+-----+-----+-----+-----+
4 rows in set (0.010 sec)

MariaDB [sistem_infor]> insert into departemen values ("D001","Keuangan","Pattimura","20");
Query OK, 1 row affected (0.346 sec)

MariaDB [sistem_infor]> insert into departemen values ("D002","Resepsionis","Pati Unus","15");
Query OK, 1 row affected (0.341 sec)

MariaDB [sistem_infor]> insert into departemen values ("D003","Kepegawaian","Letjen","30");
Query OK, 1 row affected (0.051 sec)

MariaDB [sistem_infor]> insert into departemen values ("D004","Pemasaran","Pattimura","50");
Query OK, 1 row affected (0.339 sec)

MariaDB [sistem_infor]> insert into departemen values ("D005","Administrasi","Letnan","80");
Query OK, 1 row affected (0.097 sec)

MariaDB [sistem_infor]> select *from departemen;
+----+-----+-----+-----+
| nomor_dep | nama_dep | lokasi_dep | jml_pegawai |
+----+-----+-----+-----+
| D001 | Keuangan | Pattimura | 20 |
| D002 | Resepsionis | Pati Unus | 15 |
| D003 | Kepegawaian | Letjen | 30 |
| D004 | Pemasaran | Pattimura | 50 |
| D005 | Administrasi | Letnan | 80 |
+----+-----+-----+-----+
5 rows in set (0.001 sec)

MariaDB [sistem_infor]>
```

ACC PRAKTIKUM BASIS DATA

MODUL 2, 3 & 4: DDL & DML

4. Ubah data Letjen menjadi Sutoyo & tampilkan datanya! (poin: 5)

```
Administrator: Command Prompt - mysql -u root

MariaDB [sistem_infor]> select *from departemen;
+----+-----+-----+-----+
| nomor_dep | nama_dep | lokasi_dep | jml_pegawai |
+----+-----+-----+-----+
| D001      | Keuangan | Pattimura  | 20           |
| D002      | Resepsionis | Pati Unus  | 15           |
| D003      | Kepegawaian | Letjen     | 30           |
| D004      | Pemasaran | Pattimura  | 50           |
| D005      | Administrasi | Letnan     | 80           |
+----+-----+-----+-----+
5 rows in set (0.001 sec)

MariaDB [sistem_infor]> update departemen set lokasi_dep="Sutoyo" where lokasi_dep="Letjen";
Query OK, 1 row affected (0.408 sec)
Rows matched: 1 Changed: 1 Warnings: 0

MariaDB [sistem_infor]> select *from departemen;
+----+-----+-----+-----+
| nomor_dep | nama_dep | lokasi_dep | jml_pegawai |
+----+-----+-----+-----+
| D001      | Keuangan | Pattimura  | 20           |
| D002      | Resepsionis | Pati Unus  | 15           |
| D003      | Kepegawaian | Sutoyo     | 30           |
| D004      | Pemasaran | Pattimura  | 50           |
| D005      | Administrasi | Letnan     | 80           |
+----+-----+-----+-----+
5 rows in set (0.001 sec)

MariaDB [sistem_infor]>
```

5. Hapus data D005 & tampilkan datanya! (poin: 5)

```
Administrator: Command Prompt - mysql -u root

MariaDB [sistem_infor]> select *from departemen;
+----+-----+-----+-----+
| nomor_dep | nama_dep | lokasi_dep | jml_pegawai |
+----+-----+-----+-----+
| D001      | Keuangan | Pattimura  | 20           |
| D002      | Resepsionis | Pati Unus  | 15           |
| D003      | Kepegawaian | Sutoyo     | 30           |
| D004      | Pemasaran | Pattimura  | 50           |
| D005      | Administrasi | Letnan     | 80           |
+----+-----+-----+-----+
5 rows in set (0.001 sec)

MariaDB [sistem_infor]> delete from departemen where nomor_dep="D005";
Query OK, 1 row affected (0.362 sec)

MariaDB [sistem_infor]> select *from departemen;
+----+-----+-----+-----+
| nomor_dep | nama_dep | lokasi_dep | jml_pegawai |
+----+-----+-----+-----+
| D001      | Keuangan | Pattimura  | 20           |
| D002      | Resepsionis | Pati Unus  | 15           |
| D003      | Kepegawaian | Sutoyo     | 30           |
| D004      | Pemasaran | Pattimura  | 50           |
+----+-----+-----+-----+
4 rows in set (0.001 sec)

MariaDB [sistem_infor]>
```

ACC PRAKTIKUM BASIS DATA

MODUL 2, 3 & 4: DDL & DML

6. Tampilkan data yang lokasi departemen di Pattimura! (poin: 5)

```
Select *from departemen where lokasi_dep="Pattimura";
```

nomor_dep	nama_dep	lokasi_dep	jml_pegawai
D001	Keuangan	Pattimura	20

7. Tampilkan nama departemen dan jumlah pegawai yang memiliki nama departemen berawalan huruf K! (poin: 10)

```
Administrator: Command Prompt - mysql -u root

MariaDB [sistem_infor]> select nama_dep , jml_pegawai from departemen where nama_dep like 'K%';
+-----+-----+
| nama_dep | jml_pegawai |
+-----+-----+
| Keuangan |          20 |
| Kepegawaian |         30 |
+-----+-----+
2 rows in set (0.001 sec)

MariaDB [sistem_infor]> _
```

8. Tampilkan data dengan jumlah pegawai antara 15 dan 30! (poin: 5)

```
Administrator: Command Prompt - mysql -u root

MariaDB [sistem_infor]> select *from departemen where jml_pegawai between 15 and 30;
+-----+-----+-----+-----+
| nomor_dep | nama_dep | lokasi_dep | jml_pegawai |
+-----+-----+-----+-----+
| D001 | Keuangan | Pattimura |          20 |
| D002 | Resepsionis | Pati Unus |          15 |
| D003 | Kepegawaian | Sutoyo |          30 |
+-----+-----+-----+-----+
3 rows in set (0.059 sec)

MariaDB [sistem_infor]> _
```

9. Tampilkan data dengan jumlah pegawai <55! (poin: 5)

```
Administrator: Command Prompt -

MariaDB [sistem_infor]> select *from departemen where jml_pegawai <55;
+-----+-----+-----+-----+
| nomor_dep | nama_dep | lokasi_dep | jml_pegawai |
+-----+-----+-----+-----+
| D001 | Keuangan | Pattimura |          20 |
| D002 | Resepsionis | Pati Unus |          15 |
| D003 | Kepegawaian | Sutoyo |          30 |
| D004 | Pemasaran | Pattimura |          50 |
+-----+-----+-----+-----+
4 rows in set (0.005 sec)

MariaDB [sistem_infor]> _
```

ACC PRAKTIKUM BASIS DATA

MODUL 2, 3 & 4: DDL & DML

10. Ubah jumlah pegawai menjadi 50 yang memiliki nama departemen berakhiran huruf s dan tampilkan datanya! (poin: 10)

```
MariaDB [sistem_infor]> update departemen set jml_pegawai=50 where nama_dep like '%s';
Query OK, 1 row affected (0.339 sec)
Rows matched: 1 Changed: 1 Warnings: 0

MariaDB [sistem_infor]> select * from departemen;
+----+-----+-----+-----+
| nomor_dep | nama_dep | lokasi_dep | jml_pegawai |
+----+-----+-----+-----+
| D001      | Keuangan | Pattimura  | 20          |
| D002      | Resepsionis | Pati Unus  | 50          |
| D003      | Kepegawaian | Sutoyo     | 30          |
| D004      | Pemasaran | Pattimura  | 50          |
+----+-----+-----+-----+
4 rows in set (0.001 sec)
```

11. Urutkan data nama departemen dari Z-A! (poin: 5)

```
Administrator: Command Prompt - mysql -u root
+----+-----+-----+-----+
| nomor_dep | nama_dep | lokasi_dep | jml_pegawai |
+----+-----+-----+-----+
| D002      | Resepsionis | Pati Unus  | 50          |
| D004      | Pemasaran | Pattimura  | 50          |
| D001      | Keuangan | Pattimura  | 20          |
| D003      | Kepegawaian | Sutoyo     | 30          |
+----+-----+-----+-----+
4 rows in set (0.001 sec)

MariaDB [sistem_infor]> _
```

12. Hapus seluruh data di tabel departemen! (poin: 5)

```
MariaDB [sistem_infor]> delete from departemen;
Query OK, 4 rows affected (0.343 sec)

MariaDB [sistem_infor]> select *from departemen;
Empty set (0.001 sec)

MariaDB [sistem_infor]> _
```

Nama : Yusman Yulianto

NIM: 180631100022

Gel=3a2

NB:

- Screenshoot di paste di dalam tabel yang tersedia
- Hasil screenshot harus terlihat jelas
- Waktu 90 menit
- Simpan dengan format nama file “ACC2_BD_A?_NIM”