

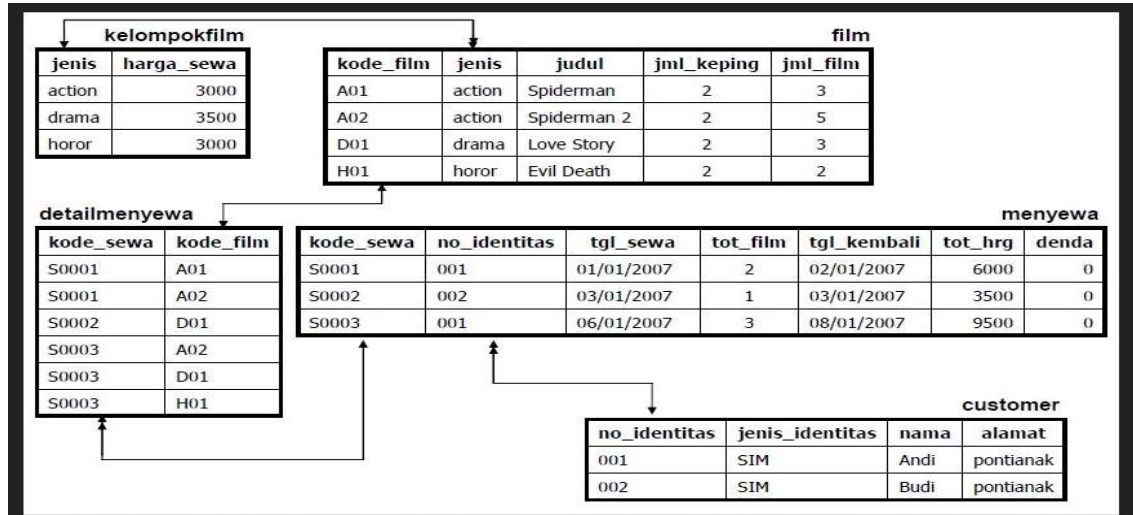
Nama : Muhammad Nabil Afrizal Rahmadani

NRP : 5025231014

Sistem Basis Data

Latihan 10

Diberikan suatu database



Soal 1

1. Buatlah database dengan format nama : **persewaan_NRP**. Contoh:

persewaan_12314112312

Jawaban:

Untuk membuat database dengan format **persewaan_NRP**, dapat menggunakan query
`CREATE DATABASE persewaan_5025231014;`

Agar MySQL langsung menggunakan database yang kita inginkan, dapat ditambahkan query

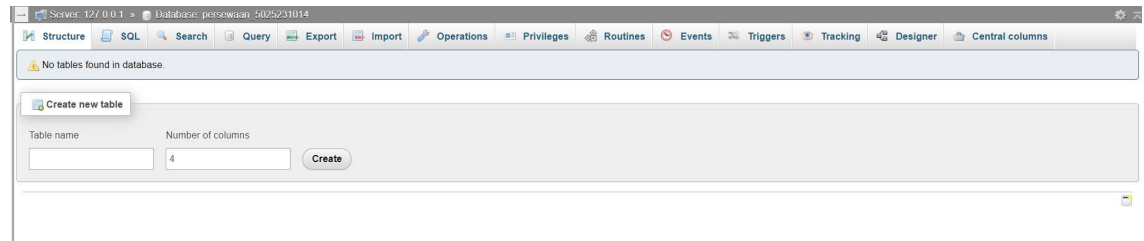
`USE persewaan_5025231014;`

Final Query

`CREATE DATABASE persewaan_5025231014;`

`USE persewaan_5025231014;`

Screenshot Database



2. Buatlah DDL untuk gambar database => create table dan insert table (NB: tipe data menyesuaikan)

Jawaban:

Untuk membuat **DDL** atau **Data Definition Language** sesuai dengan database diatas dapat menggunakan query sebagai berikut:

```
-- Soal 2
CREATE TABLE kelompok_film(
    jenis VARCHAR(20) NOT NULL PRIMARY KEY,
    harga_sewa NUMERIC NOT NULL
);
CREATE TABLE film(
    kode_film CHAR(4) NOT NULL PRIMARY KEY,
    jenis VARCHAR(20) NOT NULL,
    judul VARCHAR(32) NOT NULL,
    jml_keping INTEGER,
    jml_film INTEGER,
    FOREIGN KEY (jenis) REFERENCES kelompok_film(jenis)
);
CREATE TABLE customer(
    no_identitas CHAR(3) NOT NULL PRIMARY KEY,
    jenis_identitas CHAR(6) NOT NULL,
    nama VARCHAR(20) NOT NULL,
    alamat VARCHAR(20) NOT NULL
);
CREATE TABLE menyewa(
    kode_sewa CHAR(5) NOT NULL,
    no_identitas CHAR(3) NOT NULL,
    tgl_sewa DATE NOT NULL,
    tot_film INTEGER NOT NULL,
    tgl_kembali DATE,
    tot_hrg NUMERIC NOT NULL,
    denda NUMERIC,
    PRIMARY KEY(kode_sewa, no_identitas),
    FOREIGN KEY (no_identitas) REFERENCES customer(no_identitas)
);
```

```

CREATE TABLE detailmenyewa(
    kode_sewa CHAR(5) NOT NULL,
    kode_film CHAR(4) NOT NULL,
    PRIMARY KEY (kode_sewa, kode_film),
    FOREIGN KEY (kode_sewa) REFERENCES menyewa(kode_sewa),
    FOREIGN KEY (kode_film) REFERENCES film(kode_film)
);

INSERT INTO kelompok_film (jenis, harga_sewa)
VALUES
    ('action', '3000'),
    ('drama', '3500'),
    ('horor', '3000');

INSERT INTO film (kode_film, jenis, judul, jml_keping, jml_film)
VALUES
    ('A01', 'action', 'Spiderman', '2', '3'),
    ('A02', 'action', 'Spiderman 2', '2', '5'),
    ('D01', 'drama', 'Love Story', '2', '3'),
    ('H01', 'horor', 'Evil Death', '2', '2');

INSERT INTO customer (no_identitas, jenis_identitas, nama, alamat)
VALUES
    ('001', 'SIM', 'Andi', 'pontianak'),
    ('002', 'SIM', 'Budi', 'pontianak');

INSERT INTO menyewa (kode_sewa, no_identitas, tgl_sewa, tot_film, tgl_kembali, tot_hrg, denda)
VALUES
    ('S0001', '001', '2007-01-01', '2', '2007-01-02', '6000', '0'),
    ('S0002', '002', '2007-01-03', '1', '2007-01-03', '3500', '0'),
    ('S0003', '001', '2007-01-06', '3', '2007-01-08', '9500', '0');

INSERT INTO detailmenyewa (kode_sewa, kode_film)
VALUES
    ('S0001', 'A01'),
    ('S0001', 'A02'),
    ('S0002', 'D01'),
    ('S0003', 'A02'),
    ('S0003', 'D01'),
    ('S0003', 'H01');

```

Screenshot Tabel

Table	Action	Rows	Type	Collation	Size	Overhead
<input type="checkbox"/> customer		2	InnoDB	utf8mb4_general_ci	16.0 KiB	-
<input type="checkbox"/> detailmenyewa		6	InnoDB	utf8mb4_general_ci	32.0 KiB	-
<input type="checkbox"/> film		4	InnoDB	utf8mb4_general_ci	32.0 KiB	-
<input type="checkbox"/> kelompok_film		3	InnoDB	utf8mb4_general_ci	16.0 KiB	-
<input type="checkbox"/> menyewa		3	InnoDB	utf8mb4_general_ci	32.0 KiB	-
5 tables	Sum	18	InnoDB	utf8mb4_general_ci	128.0 KiB	0 B

Isi Tabel

a. Tabel customer

				no_identitas	jenis_identitas	nama	alamat
<input type="checkbox"/>				001	SIM	Andi	pontianak
<input type="checkbox"/>				002	SIM	Budi	pontianak

b. Tabel detailmenyewa

				kode_sewa	kode_film
<input type="checkbox"/>				S0001	A01
<input type="checkbox"/>				S0001	A02
<input type="checkbox"/>				S0002	D01
<input type="checkbox"/>				S0003	A02
<input type="checkbox"/>				S0003	D01
<input type="checkbox"/>				S0003	H01

c. Tabel film

				kode_film	jenis	judul	jml_keping	jml_film
<input type="checkbox"/>				A01	action	Spiderman	2	3
<input type="checkbox"/>				A02	action	Spiderman 2	2	5
<input type="checkbox"/>				D01	drama	Love Story	2	3
<input type="checkbox"/>				H01	horor	Evil Death	2	2

d. Tabel kelompok_film

				jenis	harga_sewa
<input type="checkbox"/>				action	3000
<input type="checkbox"/>				drama	3500
<input type="checkbox"/>				horor	3000

e. Tabel menyewa

				kode_sewa	no_identitas	tgl_sewa	tot_film	tgl_kembali	tot_hrg	denda
<input type="checkbox"/>	Edit	Copy	Delete	S0001	001	2007-01-01	2	2007-01-02	6000	0
<input type="checkbox"/>	Edit	Copy	Delete	S0002	002	2007-01-03	1	2007-01-03	3500	0
<input type="checkbox"/>	Edit	Copy	Delete	S0003	001	2007-01-06	3	2007-01-08	9500	0

3. Tambahkan atribut no_hp pada tabel customer dengan tipe data varchar

```
ALTER TABLE customer
ADD no_hp VARCHAR(15);
```

Before :

				no_identitas	jenis_identitas	nama	alamat
<input type="checkbox"/>	Edit	Copy	Delete	001	SIM	Andi	pontianak
<input type="checkbox"/>	Edit	Copy	Delete	002	SIM	Budi	pontianak

After :

				no_identitas	jenis_identitas	nama	alamat	no_hp
<input type="checkbox"/>	Edit	Copy	Delete	001	SIM	Andi	pontianak	NULL
<input type="checkbox"/>	Edit	Copy	Delete	002	SIM	Budi	pontianak	NULL

4. Ubah nama atribut no_hp menjadi no_wa

```
ALTER TABLE customer
CHANGE no_hp no_wa VARCHAR(15);
```

Before :

				no_identitas	jenis_identitas	nama	alamat	no_hp
<input type="checkbox"/>	Edit	Copy	Delete	001	SIM	Andi	pontianak	NULL
<input type="checkbox"/>	Edit	Copy	Delete	002	SIM	Budi	pontianak	NULL

After :

				no_identitas	jenis_identitas	nama	alamat	no_wa
<input type="checkbox"/>	Edit	Copy	Delete	001	SIM	Andi	pontianak	NULL
<input type="checkbox"/>	Edit	Copy	Delete	002	SIM	Budi	pontianak	NULL

5. Hapus atribut jenis_identitas pada tabel customer

```
ALTER TABLE customer  
DROP COLUMN jenis_identitas;
```

Before :

<div><div><div><div></div><div></div><div></div></div><div>←T→</div><div></div></div></div>							no_identitas	jenis_identitas	nama	alamat	no_wa
<div><div><div></div><div></div><div></div></div><div><div>Edit</div><div>Copy</div><div>Delete</div></div></div>	001	SIM	Andi	pontianak	NULL						
<div><div><div></div><div></div><div></div></div><div><div>Edit</div><div>Copy</div><div>Delete</div></div></div>	002	SIM	Budi	pontianak	NULL						








After :

					no_identitas	nama	alamat	no_wa		
<input type="checkbox"/>		Edit		Copy		Delete	001	Andi	pontianak	NULL
<input type="checkbox"/>		Edit		Copy		Delete	002	Budi	pontianak	NULL

6. Buat genre komedi pada tabel kelompok dengan harga sewa 5000

```
INSERT INTO kelompok_film (jenis, harga_sewa)  
VALUES  
('komedi', '5000');
```

Before :

<div><div><div>←</div><div>T</div><div>→</div></div></div>						jenis	harga_sewa	
<input type="checkbox"/>		Edit		Copy		Delete	action	3000
<input type="checkbox"/>		Edit		Copy		Delete	drama	3500
<input type="checkbox"/>		Edit		Copy		Delete	horor	3000

After :

					jenis	harga_sewa		
<input type="checkbox"/>		Edit		Copy		Delete	action	3000
<input type="checkbox"/>		Edit		Copy		Delete	drama	3500
<input type="checkbox"/>		Edit		Copy		Delete	horor	3000
<input type="checkbox"/>		Edit		Copy		Delete	komedi	5000

7. Tambahkan data pada tabel film

K01	Komedi	Kapan Kawin	10	2
K02	Komedi	Takut Kawin	6	3
D02	Drama	Ayat ayat Cinta	8	3
D03	Drama	Tiga doa tiga Cinta	5	2
H02	Horor	Resident Evil	7	4

```
INSERT INTO film (kode_film, jenis, judul, jml_keping, jml_film)
VALUES
('K01', 'komedi', 'Kapan Kawin', '10', '2'),
('K02', 'komedi', 'Takut Kawin', '6', '3'),
('D02', 'drama', 'Ayat ayat Cinta', '8', '3'),
('D03', 'drama', 'Tiga doa tiga Cinta', '5', '2'),
('H02', 'horor', 'Resident Evil', '7', '4');
```

Before :

				kode_film	jenis	judul	jml_keping	jml_film
<input type="checkbox"/>	Edit	Copy	Delete	A01	action	Spiderman	2	3
<input type="checkbox"/>	Edit	Copy	Delete	A02	action	Spiderman 2	2	5
<input type="checkbox"/>	Edit	Copy	Delete	D01	drama	Love Story	2	3
<input type="checkbox"/>	Edit	Copy	Delete	H01	horor	Evil Death	2	2


After :

				kode_film	jenis	judul	jml_keping	jml_film
<input type="checkbox"/>	Edit	Copy	Delete	A01	action	Spiderman	2	3
<input type="checkbox"/>	Edit	Copy	Delete	A02	action	Spiderman 2	2	5
<input type="checkbox"/>	Edit	Copy	Delete	D01	drama	Love Story	2	3
<input type="checkbox"/>	Edit	Copy	Delete	D02	drama	Ayat ayat Cinta	8	3
<input type="checkbox"/>	Edit	Copy	Delete	D03	drama	Tiga doa tiga Cinta	5	2
<input type="checkbox"/>	Edit	Copy	Delete	H01	horor	Evil Death	2	2
<input type="checkbox"/>	Edit	Copy	Delete	H02	horor	Resident Evil	7	4
<input type="checkbox"/>	Edit	Copy	Delete	K01	komedi	Kapan Kawin	10	2
<input type="checkbox"/>	Edit	Copy	Delete	K02	komedi	Takut Kawin	6	3





8. Lakukan update data pada bagian harga di tabel kelompok film dengan mengalikan 10 pada harga sewa.

```
UPDATE kelompok_film  
SET harga_sewa = harga_sewa * 10;
```

Before :

					jenis	harga_sewa		
<input type="checkbox"/>		Edit		Copy		Delete	action	3000
<input type="checkbox"/>		Edit		Copy		Delete	drama	3500
<input type="checkbox"/>		Edit		Copy		Delete	horor	3000
<input type="checkbox"/>		Edit		Copy		Delete	komedi	5000

After :

					jenis	harga_sewa
<input type="checkbox"/>	 Edit	 Copy	 Delete	action	30000	
<input type="checkbox"/>	 Edit	 Copy	 Delete	drama	35000	
<input type="checkbox"/>	 Edit	 Copy	 Delete	horor	30000	
<input type="checkbox"/>	 Edit	 Copy	 Delete	komedi	50000	