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Program Studi : Teknik Komputer

Mata Kuliah   : Basis Data

Lembar Kerja

Silahkan Anda mencoba seluruh rangkaian praktikum di atas

```
Command Prompt - mysql -u   ✕      +   ⌄

MariaDB [(none)]> show databases;
+--------------------+
| Database           |
+--------------------+
| information_schema |
| mahasiswa          |
| mysql              |
| performance_schema |
| phpmyadmin         |
| test               |
+--------------------+
6 rows in set (0.001 sec)

MariaDB [(none)]> create database mahasiswa;
ERROR 1007 (HY000): Can't create database 'mahasiswa'; database exists
MariaDB [(none)]> show databases;
+--------------------+
| Database           |
+--------------------+
| information_schema |
| mahasiswa          |
| mysql              |
| performance_schema |
| phpmyadmin         |
| test               |
+--------------------+
6 rows in set (0.001 sec)

MariaDB [(none)]> drop database mahasiswa;
Query OK, 0 rows affected (0.001 sec)

MariaDB [(none)]> show databases;
+--------------------+
| Database           |
+--------------------+
| information_schema |
| mysql              |
| performance_schema |
| phpmyadmin         |
| test               |
+--------------------+
5 rows in set (0.001 sec)

MariaDB [(none)]> create database mahasiswa;
Query OK, 1 row affected (0.001 sec)
```

Tugas dan Pertanyaan

Silahkan anda membuat basis data relasional pada kasus tugas yang ada pada slide materi pertemuan hari ini, screenshoot hasil tabel yang Anda buat dengan konten:

1. Screenshoot tabel yang anda buat
2. Screenshoot struktur per tabel
3. Screenshoot isi data per table

* Rencana (Database dan Tabel)


```
1   Database (Bintang Audio)
2
3   Tabel Pelanggan
4
5   id_pelanggan - int(15)
6   nama_pelanggan - varchar(255)
7   email - varchar (255)
8   telepon - varchar(15)
9   alamat - varchar(255)
10
11  Tabel Barang
12
13  id_barang - int(15)
14  nama_barang - varchar(255)
15  merk - varchar(255)
16  kategori - varchar(255)
17  harga - decimal(10,2)
18  stok - int(10)
19
20  Tabel Penjualan
21
22  id_penjualan - int(15)
23  id_pelanggan - int(15)
24  id_barang - int(15)
25  jumlah - int(10)
26  waktu - datetime
27  pembayaran -
```

* Membuat Database (Bintang Audio)

* Membuat Tabel (Pelanggan)

* Mengisi Tabel (Penjualan)

* Struktur Database (Bintang Audio)

Filters

Containing the word:

Table ▲	Action							Rows	Type	Collation	Size	Overhead
☐ barang	⭐	🗐 Browse	Structure	Search	Insert	Empty	⊝ Drop	0	InnoDB	utf8mb4_general_ci	16.0 KiB	-
☐ pelanggan	⭐	🗐 Browse	Structure	Search	Insert	Empty	⊝ Drop	0	InnoDB	utf8mb4_general_ci	16.0 KiB	-
☐ penjualan	⭐	🗐 Browse	Structure	Search	Insert	Empty	⊝ Drop	0	InnoDB	utf8mb4_general_ci	16.0 KiB	-
3 tables	Sum							0	InnoDB	utf8mb4_general_ci	48.0 KiB	0 B

↑ ☐ Check all   With selected:

* Struktur Tabel (Barang)

Server: 127.0.0.1 » Database: bintang_audio » Table: barang

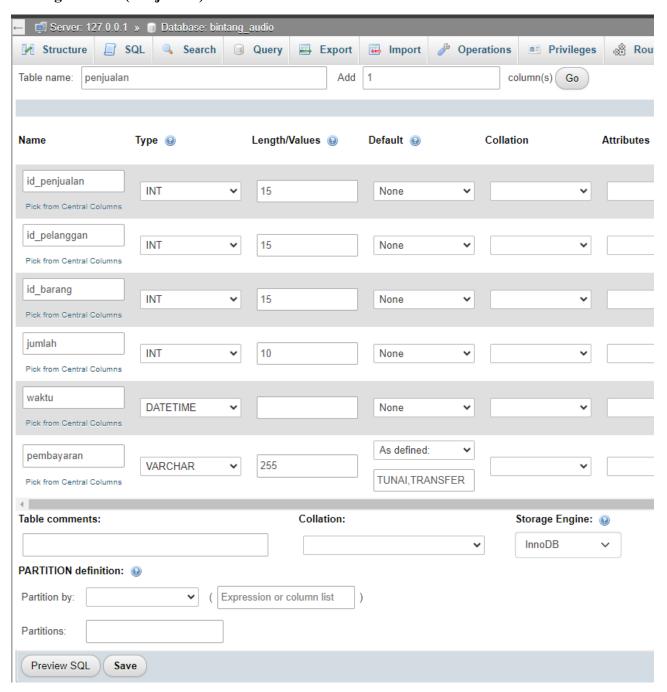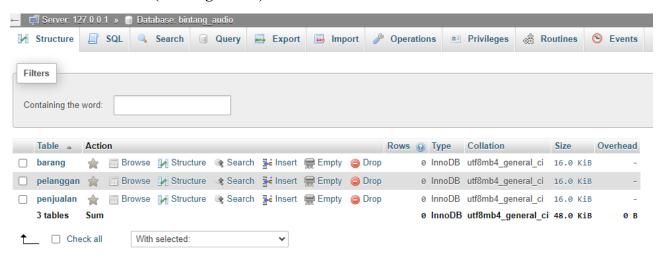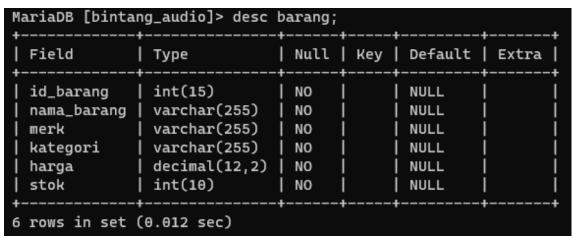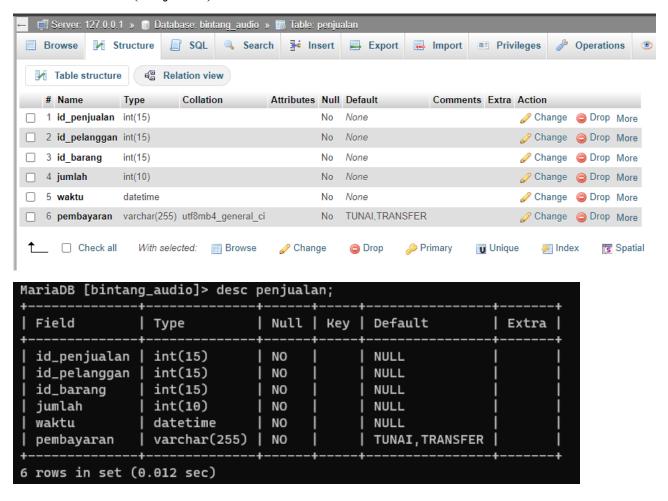| Browse | Structure | SQL | Search | Insert | Export | Import | Privileges | Operatio |

Table structure   Relation view

#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra	Action		
☐ 1	id_barang	int(15)			No	None			🖉 Change	⊝ Drop	More
☐ 2	nama_barang	varchar(255)	utf8mb4_general_ci		No	None			🖉 Change	⊝ Drop	More
☐ 3	kategori	varchar(255)	utf8mb4_general_ci		No	None			🖉 Change	⊝ Drop	More
☐ 4	harga	decimal(10,2)			No	None			🖉 Change	⊝ Drop	More
☐ 5	stok	int(10)			No	None			🖉 Change	⊝ Drop	More

↑ ☐ Check all   With selected: 🗐 Browse   🖉 Change   ⊝ Drop   Primary   Unique   Index

```
MariaDB [bintang_audio]> desc barang;
+--------------+---------------+------+-----+---------+-------+
| Field        | Type          | Null | Key | Default | Extra |
+--------------+---------------+------+-----+---------+-------+
| id_barang    | int(15)       | NO   |     | NULL    |       |
| nama_barang  | varchar(255)  | NO   |     | NULL    |       |
| merk         | varchar(255)  | NO   |     | NULL    |       |
| kategori     | varchar(255)  | NO   |     | NULL    |       |
| harga        | decimal(12,2) | NO   |     | NULL    |       |
| stok         | int(10)       | NO   |     | NULL    |       |
+--------------+---------------+------+-----+---------+-------+
6 rows in set (0.012 sec)
```

* Struktur Tabel (Penjualan)


```
MariaDB [bintang_audio]> desc penjualan;
+--------------+--------------+------+-----+----------------+-------+
| Field        | Type         | Null | Key | Default        | Extra |
+--------------+--------------+------+-----+----------------+-------+
| id_penjualan | int(15)      | NO   |     | NULL           |       |
| id_pelanggan | int(15)      | NO   |     | NULL           |       |
| id_barang    | int(15)      | NO   |     | NULL           |       |
| jumlah       | int(10)      | NO   |     | NULL           |       |
| waktu        | datetime     | NO   |     | NULL           |       |
| pembayaran   | varchar(255) | NO   |     | TUNAI,TRANSFER |       |
+--------------+--------------+------+-----+----------------+-------+
6 rows in set (0.012 sec)
```

* Struktur Tabel (Pelanggan)

```
MariaDB [bintang_audio]> desc pelanggan;
+-----------------+---------------+------+-----+---------+-------+
| Field           | Type          | Null | Key | Default | Extra |
+-----------------+---------------+------+-----+---------+-------+
| id_pelanggan    | int(15)       | NO   |     | NULL    |       |
| nama_pelanggan  | varchar(255)  | NO   |     | NULL    |       |
| email           | varchar(255)  | NO   |     | NULL    |       |
| telepon         | varchar(15)   | NO   |     | NULL    |       |
| alamat          | varchar(255)  | NO   |     | NULL    |       |
+-----------------+---------------+------+-----+---------+-------+
5 rows in set (0.011 sec)
```

* Data Tabel (Barang)

id_barang	nama_barang	merk	kategori	harga	stok
111001	Audiotechnik KSLi8	D&B	Speaker Line Array	50000000.00	5
111005	Audiotechnik V Subwoofer	D&B	Subwoofer Array	120000000.00	3
222009	SQ-5 48-Channel 17-Faders 6-Layers Digital Mixer	Allen & Heath	Mixer Digital	500000000.00	2
333002	Vi7000 128-Channel Mixer Digital	Soundcraft	Mixer Digital	900000000.00	1
777044	JRX112Mi Speaker Pasif 2 Way 12' 500 Watt	JBL	Speaker Pasif	35000000.00	3
777020	KP-6018S Subwoofer Karaoke 18 Inch 2400 Watt	JBL	Subwoofer Panggung	75000000.00	4
999025	TF5 32-Channel 33-Faders Digital Mixer	Yamaha	Mixer Digital	250000000.00	1

☐ Show all | Number of rows: 25 ⌄   Filter rows: Search this table

```
MariaDB [bintang_audio]> select * from barang;
+-----------+--------------------------------------------------+---------------+--------------------+--------------+------+
| id_barang | nama_barang                                      | merk          | kategori           | harga        | stok |
+-----------+--------------------------------------------------+---------------+--------------------+--------------+------+
|    111001 | Audiotechnik KSLi8                               | D&B           | Speaker Line Array |  50000000.00 |    5 |
|    111005 | Audiotechnik V Subwoofer                         | D&B           | Subwoofer Array    | 120000000.00 |    3 |
|    222009 | SQ-5 48-Channel 17-Faders 6-Layers Digital Mixer | Allen & Heath | Mixer Digital      | 500000000.00 |    2 |
|    333002 | Vi7000 128-Channel Mixer Digital                 | Soundcraft    | Mixer Digital      | 900000000.00 |    1 |
|    777044 | JRX112Mi Speaker Pasif 2 Way 12? 500 Watt        | JBL           | Speaker Pasif      |  35000000.00 |    3 |
|    777020 | KP-6018S Subwoofer Karaoke 18 Inch 2400 Watt     | JBL           | Subwoofer Panggung |  75000000.00 |    4 |
|    999025 | TF5 32-Channel 33-Faders Digital Mixer           | Yamaha        | Mixer Digital      | 250000000.00 |    1 |
+-----------+--------------------------------------------------+---------------+--------------------+--------------+------+
7 rows in set (0.000 sec)
```

* Data Tabel (Penjualan)

id_penjualan	id_pelanggan	id_barang	jumlah	waktu	pembayaran
242205	250224001	222009	1	2024-02-28 15:19:03	TRANSFER
243367	260224005	777044	1	2024-03-27 17:21:33	TUNAI
2233343	300224007	999025	1	2024-03-12 09:22:49	TRANSFER
243372	270224009	111005	2	2024-03-17 14:24:00	TUNAI
242299	250224001	777044	1	2024-02-29 13:26:10	TUNAI

☐ Show all | Number of rows: 25 ⌄   Filter rows: Search this table

```
MariaDB [bintang_audio]> select * from penjualan;
+--------------+--------------+-----------+--------+---------------------+-------------+
| id_penjualan | id_pelanggan | id_barang | jumlah | waktu               | pembayaran  |
+--------------+--------------+-----------+--------+---------------------+-------------+
|       242205 |    250224001 |    222009 |      1 | 2024-02-28 15:19:03 | TRANSFER    |
|       243367 |    260224005 |    777044 |      1 | 2024-03-27 17:21:33 | TUNAI       |
|      2233343 |    300224007 |    999025 |      1 | 2024-03-12 09:22:49 | TRANSFER    |
|       243372 |    270224009 |    111005 |      2 | 2024-03-17 14:24:00 | TUNAI       |
|       242299 |    250224001 |    777044 |      1 | 2024-02-29 13:26:10 | TUNAI       |
+--------------+--------------+-----------+--------+---------------------+-------------+
5 rows in set (0.000 sec)
```

* Data Tabel (Pelanggan)

id_pelanggan	nama_pelanggan	email	telepon	alamat
250224001	Andreas Restuawanta	andreasrrr@gmail.com	089522442345	Semarang
250224002	Rizky Wahyudi	rizkyw5@gmail.com	085524348778	Jakarta
260224005	Nabil Husein	nabilengineer@gmail.com	085522318799	Jakarta
270224009	Michael Maestro	michmm44@gmail.com	081233428754	Surabaya
300224007	Ari Lasso	arisso7@gmail.com	089954558912	Surabaya

☐ Show all │ Number of rows: 25 ∨ Filter rows: Search this table

```
MariaDB [bintang_audio]> select * from pelanggan;
+--------------+---------------------+-------------------------+--------------+----------+
| id_pelanggan | nama_pelanggan      | email                   | telepon      | alamat   |
+--------------+---------------------+-------------------------+--------------+----------+
|    250224001 | Andreas Restuawanta | andreasrrr@gmail.com    | 089522442345 | Semarang |
|    250224002 | Rizky Wahyudi       | rizkyw5@gmail.com       | 085524348778 | Jakarta  |
|    260224005 | Nabil Husein        | nabilengineer@gmail.com | 085522318799 | Jakarta  |
|    270224009 | Michael Maestro     | michmm44@gmail.com      | 081233428754 | Surabaya |
|    300224007 | Ari Lasso           | arisso7@gmail.com       | 089954558912 | Surabaya |
+--------------+---------------------+-------------------------+--------------+----------+
5 rows in set (0.000 sec)
```