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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 X + v
Microsoft Windows [Version 10.0.22631.3155]
(c) Microsoft Corporation. All rights reserved.

C:\Users\andre>cd
C:\Users\andre

C:\Users\andre>cd..

C:\Users>cd..

C:\>cd Program Files

C:\Program Files>cd xampp

C:\Program Files\xampp>cd mysql

C:\Program Files\xampp\mysql>cd bin

C:\Program Files\xampp\mysql\bin>mysql -u root -p
Enter password:
Welcome to the MariaDB monitor.  Commands end with ; or \g.
Your MariaDB connection id is 10
Server version: 10.4.32-MariaDB mariadb.org binary distribution

Copyright (c) 2000, 2018, Oracle, MariaDB Corporation Ab and others.

Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

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 (0.002 sec)
```

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)

```
Command Prompt - mysql -u x + v
Query OK, 1 row affected (0.001 sec)

MariaDB [(none)]> use mahasiswa;
Database changed
MariaDB [mahasiswa]> create table data_mahasiswa (nim varchar(15), nama varchar(40), tempat_lahir varchar(35), tgl_lhr date, alamat varchar(50), no_telp varchar(30));
Query OK, 0 rows affected (0.025 sec)

MariaDB [mahasiswa]> show tables;
+-----+
| Tables_in_mahasiswa |
+-----+
| data_mahasiswa       |
+-----+
1 row in set (0.001 sec)

MariaDB [mahasiswa]> describe data_mahasiswa;
+-----+-----+-----+-----+-----+-----+
| Field | Type | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| nim   | varchar(15) | YES | | NULL | |
| nama  | varchar(40) | YES | | NULL | |
| tempat_lahir | varchar(35) | YES | | NULL | |
| tgl_lhr | date | YES | | NULL | |
| alamat | varchar(50) | YES | | NULL | |
| no_telp | varchar(30) | YES | | NULL | |
+-----+-----+-----+-----+-----+-----+
6 rows in set (0.036 sec)

MariaDB [mahasiswa]> |
```

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)

```
new 1 x
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)

Server: 127.0.0.1

Databases SQL Status User accounts Export Import

Databases

Create database ?

bintang_audio utf8mb4_general_ci Create

☐ Check all

	Database	Collation	Action
<input type="checkbox"/>	information_schema	utf8_general_ci	Check privileges
<input type="checkbox"/>	mahasiswa	utf8mb4_general_ci	Check privileges
<input type="checkbox"/>	mysql	utf8mb4_general_ci	Check privileges
<input type="checkbox"/>	performance_schema	utf8_general_ci	Check privileges
<input type="checkbox"/>	phpmyadmin	utf8_bin	Check privileges
<input type="checkbox"/>	test	latin1_swedish_ci	Check privileges

Total: 6

* Membuat Tabel (Pelanggan)

Server: 127.0.0.1 » Database: bintang_audio

Structure SQL Search Query Export

No tables found in database.

Create new table

Table name Number of columns

pelanggan 5 Create

* Mengisi Tabel (Penjualan)

Server: 127.0.0.1 » Database: bintang_audio

Structure SQL Search Query Export Import Operations Privileges Rou

Table name: penjualan Add 1 column(s) Go

Name	Type	Length/Values	Default	Collation	Attributes
id_penjualan	INT	15	None		
Pick from Central Columns					
id_pelanggan	INT	15	None		
Pick from Central Columns					
id_barang	INT	15	None		
Pick from Central Columns					
jumlah	INT	10	None		
Pick from Central Columns					
waktu	DATETIME		None		
Pick from Central Columns					
pembayaran	VARCHAR	255	As defined:		
Pick from Central Columns					
TUNAI, TRANSFER					

Table comments:

Collation:

Storage Engine: InnoDB

PARTITION definition:

Partition by: (Expression or column list)

Partitions:

Preview SQL Save

* Struktur Database (Bintang Audio)

Server: 127.0.0.1 » Database: bintang_audio

Structure SQL Search Query Export Import Operations Privileges Routines Events

Filters

Containing the word:

Table	Action	Rows	Type	Collation	Size	Overhead
<input type="checkbox"/> barang	★ Browse Structure Search Insert Empty Drop	0	InnoDB	utf8mb4_general_ci	16.0 KiB	-
<input type="checkbox"/> pelanggan	★ Browse Structure Search Insert Empty Drop	0	InnoDB	utf8mb4_general_ci	16.0 KiB	-
<input type="checkbox"/> 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
<input type="checkbox"/> 1	id_barang	int(15)			No	None			Change Drop More
<input type="checkbox"/> 2	nama_barang	varchar(255)	utf8mb4_general_ci		No	None			Change Drop More
<input type="checkbox"/> 3	kategori	varchar(255)	utf8mb4_general_ci		No	None			Change Drop More
<input type="checkbox"/> 4	harga	decimal(10,2)			No	None			Change Drop More
<input type="checkbox"/> 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)

Server: 127.0.0.1 » Database: bintang_audio » Table: penjualan

[Browse](#)
[Structure](#)
[SQL](#)
[Search](#)
[Insert](#)
[Export](#)
[Import](#)
[Privileges](#)
[Operations](#)

[Table structure](#)
[Relation view](#)

#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra	Action
<input type="checkbox"/>	1 id_penjualan	int(15)			No	None			Change Drop More
<input type="checkbox"/>	2 id_pelanggan	int(15)			No	None			Change Drop More
<input type="checkbox"/>	3 id_barang	int(15)			No	None			Change Drop More
<input type="checkbox"/>	4 jumlah	int(10)			No	None			Change Drop More
<input type="checkbox"/>	5 waktu	datetime			No	None			Change Drop More
<input type="checkbox"/>	6 pembayaran	varchar(255)	utf8mb4_general_ci		No	TUNAI,TRANSFER			Change Drop More

[Check all](#)
 With selected:
 [Browse](#)
[Change](#)
[Drop](#)
[Primary](#)
[Unique](#)
[Index](#)
[Spatial](#)

```
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)

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
<input type="checkbox"/>	1 id_barang	int(15)			No	None			Change Drop More
<input type="checkbox"/>	2 nama_barang	varchar(255)	utf8mb4_general_ci		No	None			Change Drop More
<input type="checkbox"/>	3 merk	varchar(255)	utf8mb4_general_ci		No	None			Change Drop More
<input type="checkbox"/>	4 kategori	varchar(255)	utf8mb4_general_ci		No	None			Change Drop More
<input type="checkbox"/>	5 harga	decimal(10,2)			No	None			Change Drop More
<input type="checkbox"/>	6 stok	int(10)			No	None			Change Drop More

[Check all](#)
 With selected:
 [Browse](#)
[Change](#)
[Drop](#)
[Primary](#)
[Unique](#)
[Index](#)
[Spatial](#)

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:

```
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)