

MODUL 4 (Data Definition Language (DDL))

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Modul : 4

Tugas Database Raport dalam CMD

Cara Membuat

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Command Prompt - mysql -u root
Microsoft Windows [Version 10.0.15063]
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C:\Users\dell>cd..
C:\Users>cd..
C:\>cd xampp
C:\xampp>cd mysql
C:\xampp\mysql>cd bin
C:\xampp\mysql\bin>mysql -u root
Welcome to the MariaDB monitor.  Commands end with ; or \g.
Your MariaDB connection id is 2
Server version: 10.1.38-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 (0.10 sec)

MariaDB [(none)]> create database e-raport;
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MariaDB server version for the right syntax to use near 'e-raport' at line 1
MariaDB [(none)]> create database raport;
Query OK, 1 row affected (0.04 sec)

MariaDB [(none)]> show databases;
+-----+
| Database |
+-----+
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MariaDB [(none)]> show databases;
+-----+
| Database |
+-----+
| information_schema |
| mysql |
| performance_schema |
| phpmyadmin |
| raport |
| test |
+-----+
6 rows in set (0.00 sec)

MariaDB [(none)]> use raport;
Database changed
MariaDB [raport]> create table siswa;
ERROR 1113 (42000): A table must have at least 1 column
MariaDB [raport]> create table siswa(
  -> no_induk_siswa integer(20) primary key,
  -> nama_siswa varchar(45),
  -> alamat_siswa(255));
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MariaDB server version for the right syntax to use near '(255))' at line 4
MariaDB [raport]> create table siswa(
  -> no_induk_siswa integer(20) primary key,
  -> nama_siswa varchar(45),
  -> alamat_siswa varchar(255));
Query OK, 0 rows affected (0.29 sec)

MariaDB [raport]> show tables;
+-----+
| Tables_in_raport |
+-----+
| siswa |
+-----+
1 row in set (0.00 sec)

MariaDB [raport]> create table guru(
  -> nip_guru integer(20) primary key,
  -> nama_guru varchar(45),
  -> alamat_guru varchar(255));
Query OK, 0 rows affected (0.25 sec)
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Command Prompt - mysql -u root

MariaDB [raport]> create table mata_pelajaran(
  -> kode_mapel varchar(20) primary key,
  -> nilai integer(20),
  -> kkm integer(20));
Query OK, 0 rows affected (0.28 sec)

MariaDB [raport]> create table orang_tua(
  -> nik_ortu integer(20) primary key,
  -> no_induk_siswfk integer(20) references siswa(no_induk_siswa) on delete cascade on update cascade,
  -> nama_ortu varchar(45),
  -> jenis_kelamin varchar(45));
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MariaDB server version for the right syntax to use near 'siswa(no_in
duk_siswa) on delete cascade on update cascade,
nama_ortu varchar(45)' at line 3
MariaDB [raport]> create table orang_tua(
  -> nik_ortu integer(20) primary key,
  -> no_induk_siswfk integer(20) references siswa(no_induk_siswa) on delete cascade on update cascade,
  -> nama_ortu varchar(45),
  -> jenis_kelamin varchar(45));
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MariaDB server version for the right syntax to use near 'siswa(no_in
duk_siswa) on delete cascade on update cascade,
nama_ortu varchar(45)' at line 3
MariaDB [raport]> desc siswa;
+-----+-----+-----+-----+-----+
| Field | Type | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+
| no_induk_siswa | int(20) | NO | PRI | NULL | |
| nama_siswa | varchar(45) | YES | | NULL | |
| alamat_siswa | varchar(255) | YES | | NULL | |
+-----+-----+-----+-----+-----+
3 rows in set (0.12 sec)

MariaDB [raport]> show tables;
+-----+
| Tables_in_raport |
+-----+
| guru |
| mata_pelajaran |
| siswa |
+-----+
3 rows in set (0.00 sec)

MariaDB [raport]> create table orang_tua(
```

```
Command Prompt - mysql -u root

MariaDB [raport]> create table orang_tua(
  -> nik_ortu integer(20) primary key,
  -> no_induk_siswafk integer(20) references siswa(no_induk_siswa) on delete cascade on update cascade,
  -> nama_ortu varchar(45),
  -> jenis_kelamin varchar(45));
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MariaDB server version for the right syntax to use near 'delete cascade on update cascade,
nama_ortu varchar(45),
jenis_kelamin varchar(4' at line 3
MariaDB [raport]> create table orang_tua(
  -> nik_ortu integer(20) primary key,
  -> no_induk_siswafk integer(20) references siswa(no_induk_siswa) on delete cascade on update cascade,
  -> nama_ortu varchar(45),
  -> jenis_kelamin varchar(45));
Query OK, 0 rows affected (0.25 sec)

MariaDB [raport]> show tables;
+-----+
| Tables_in_raport |
+-----+
| guru             |
| mata_pelajaran   |
| orang_tua        |
| siswa            |
+-----+
4 rows in set (0.00 sec)

MariaDB [raport]> desc orang_tua;
+-----+-----+-----+-----+-----+-----+
| Field | Type | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| nik_ortu | int(20) | NO | PRI | NULL | |
| no_induk_siswafk | int(20) | YES | | NULL | |
| nama_ortu | varchar(45) | YES | | NULL | |
| jenis_kelamin | varchar(45) | YES | | NULL | |
+-----+-----+-----+-----+-----+-----+
4 rows in set (0.08 sec)

MariaDB [raport]> create table guru_has_siswa(
  -> nip_gurufk integer(20) references guru(nip_guru) on delete cascade on update cascade,date cascade,
  -> no_induk_siswafk integer(20) references siswa(no_induk_siswa) on delete cascade on update cascade);
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MariaDB server version for the right syntax to use near 'cascade,
no_induk_siswafk integer(20) references siswa(no_induk_siswa) on delete' at line 2
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Command Prompt - mysql -u root

MariaDB [raport]> create table guru_has_siswa(
  -> nip_gurufk integer(20) references guru(nip_guru) on delete cascade on update cascade,date cascade,
  -> no_induk_siswafk integer(20) references siswa(no_induk_siswa) on delete cascade on update cascade);
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MariaDB server version for the right syntax to use near 'cascade,
no_induk_siswafk integer(20) references siswa(no_induk_siswa) on delete' at line 2
MariaDB [raport]> create table guru_has_siswa(
  -> nip_gurufk integer(20) references guru(nip_guru) on delete cascade on update cascade,
  -> no_induk_siswafk integer(20) references siswa(no_induk_siswa) on delete cascade on update cascade);
Query OK, 0 rows affected (0.26 sec)

MariaDB [raport]> desc guru_has_siswa;
+-----+-----+-----+-----+-----+-----+
| Field | Type | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| nip_gurufk | int(20) | YES | | NULL | |
| no_induk_siswafk | int(20) | YES | | NULL | |
+-----+-----+-----+-----+-----+-----+
2 rows in set (0.02 sec)

MariaDB [raport]> create table guru_has_mata_pelajaran(
  -> nip_gurufk integer(20) references guru(nip_guru) on delete cascade on update cascade,
  -> kode_mapelfk varchar(20) references mata_pelajaran(kode_mapel) on delete cascade on update cascade);
Query OK, 0 rows affected (0.30 sec)

MariaDB [raport]> desc guru_has_mata_pelajaran;
+-----+-----+-----+-----+-----+-----+
| Field | Type | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| nip_gurufk | int(20) | YES | | NULL | |
| kode_mapelfk | varchar(20) | YES | | NULL | |
+-----+-----+-----+-----+-----+-----+
2 rows in set (0.10 sec)

MariaDB [raport]> create table mata_pelajaran_has_siswa(
  -> kode_mapelfk varchar(20) references mata_pelajaran(kode_mapel) on delete cascade on update cascade,
  -> no_induk_siswafk integer(20) references siswa(no_induk_siswa) on delete cascade on update cascade);
Query OK, 0 rows affected (0.26 sec)

MariaDB [raport]> desc mata_pelajaran_has_siswa;
+-----+-----+-----+-----+-----+-----+
| Field | Type | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| kode_mapelfk | varchar(20) | YES | | NULL | |
+-----+-----+-----+-----+-----+-----+
1 rows in set (0.02 sec)
```

```
Command Prompt - mysql -u root

MariaDB [raport]> desc mata_pelajaran_has_siswa;
+-----+-----+-----+-----+-----+-----+
| Field | Type | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| kode_mapelfk | varchar(20) | YES | | NULL | |
| no_induk_siswafk | int(20) | YES | | NULL | |
+-----+-----+-----+-----+-----+-----+
2 rows in set (0.02 sec)

MariaDB [raport]> show databases;
+-----+
| Database |
+-----+
| information_schema |
| mysql |
| performance_schema |
| phpmysqladmin |
| raport |
| test |
+-----+
6 rows in set (0.00 sec)

MariaDB [raport]> show tables;
+-----+
| Tables_in_raport |
+-----+
| guru |
| guru_has_mata_pelajaran |
| guru_has_siswa |
| mata_pelajaran |
| mata_pelajaran_has_siswa |
| orang_tua |
| siswa |
+-----+
7 rows in set (0.00 sec)

MariaDB [raport]> desc guru;
+-----+-----+-----+-----+-----+-----+
| Field | Type | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| nip_guru | int(20) | NO | PRI | NULL | |
| nama_guru | varchar(45) | YES | | NULL | |
| alamat_guru | varchar(255) | YES | | NULL | |
+-----+-----+-----+-----+-----+-----+
3 rows in set (0.02 sec)
```

Hasil

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Command Prompt - mysql -u root

MariaDB [raport]> show databases;
+-----+
| Database |
+-----+
| information_schema |
| mysql |
| performance_schema |
| phpmysqladmin |
| raport |
| test |
+-----+
6 rows in set (0.00 sec)

MariaDB [raport]> show tables;
+-----+
| Tables_in_raport |
+-----+
| guru |
| guru_has_mata_pelajaran |
| guru_has_siswa |
| mata_pelajaran |
| mata_pelajaran_has_siswa |
| orang_tua |
| siswa |
+-----+
7 rows in set (0.00 sec)

MariaDB [raport]> desc guru;
+-----+-----+-----+-----+-----+-----+
| Field | Type | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| nip_guru | int(20) | NO | PRI | NULL | |
| nama_guru | varchar(45) | YES | | NULL | |
| alamat_guru | varchar(255) | YES | | NULL | |
+-----+-----+-----+-----+-----+-----+
3 rows in set (0.02 sec)

MariaDB [raport]> desc guru_has_mata_pelajaran;
+-----+-----+-----+-----+-----+-----+
| Field | Type | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
+-----+-----+-----+-----+-----+-----+
2 rows in set (0.02 sec)
```

Command Prompt - mysql -u root

MariaDB [raport]> desc guru_has_mata_pelajaran;

Field	Type	Null	Key	Default	Extra
nip_gurufk	int(20)	YES		NULL	
kode_mapelfk	varchar(20)	YES		NULL	

2 rows in set (0.08 sec)

MariaDB [raport]> desc guru_has_siswa;

Field	Type	Null	Key	Default	Extra
nip_gurufk	int(20)	YES		NULL	
no_induk_siswafk	int(20)	YES		NULL	

2 rows in set (0.11 sec)

MariaDB [raport]> desc mata_pelajaran;

Field	Type	Null	Key	Default	Extra
kode_mapel	varchar(20)	NO	PRI	NULL	
nilai	int(20)	YES		NULL	
kkm	int(20)	YES		NULL	

3 rows in set (0.02 sec)

MariaDB [raport]> desc mata_pelajaran_has_siswa;

Field	Type	Null	Key	Default	Extra
kode_mapelfk	varchar(20)	YES		NULL	
no_induk_siswafk	int(20)	YES		NULL	

2 rows in set (0.02 sec)

MariaDB [raport]> desc orang_tua;

Field	Type	Null	Key	Default	Extra
nik_oru	int(20)	NO	PRI	NULL	
no_induk_siswafk	int(20)	YES		NULL	

Command Prompt - mysql -u root

MariaDB [raport]> desc mata_pelajaran;

Field	Type	Null	Key	Default	Extra
kode_mapel	varchar(20)	NO	PRI	NULL	
nilai	int(20)	YES		NULL	
kkm	int(20)	YES		NULL	

3 rows in set (0.02 sec)

MariaDB [raport]> desc mata_pelajaran_has_siswa;

Field	Type	Null	Key	Default	Extra
kode_mapelfk	varchar(20)	YES		NULL	
no_induk_siswafk	int(20)	YES		NULL	

2 rows in set (0.02 sec)

MariaDB [raport]> desc orang_tua;

Field	Type	Null	Key	Default	Extra
nik_oru	int(20)	NO	PRI	NULL	
no_induk_siswafk	int(20)	YES		NULL	
nama_oru	varchar(45)	YES		NULL	
jenis_kelamin	varchar(45)	YES		NULL	

4 rows in set (0.02 sec)

MariaDB [raport]> desc siswa;

Field	Type	Null	Key	Default	Extra
no_induk_siswa	int(20)	NO	PRI	NULL	
nama_siswa	varchar(45)	YES		NULL	
alamat_siswa	varchar(255)	YES		NULL	

3 rows in set (0.02 sec)

MariaDB [raport]> _