



# **BASIS DATA**

**INF1123**

## **LAPORAN PRAKTIKUM 1 : Dasar-Dasar MySQL**

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# Laporan Praktikum 1:

# Dasar-Dasar MySQL

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## Pokok Bahasan:

- ❖ Mengetahui Dasar-Dasar MySQL
- ❖ Membuat Database
- ❖ Membuat *Table*
- ❖ Mengenal Constraint

## Tujuan Pembelajaran:

- ✓ Mahasiswa dapat mengetahui, memahami, menguasai dan mampu mengimplementasi teori, konsep dan prinsip pemrograman database MySQL dengan logika pemrograman yang benar, ringkas, dan tepat dalam penerapannya di bidang teknologi informasi.

## Percobaan & Latihan:

1. create database latihan1;

```
C:\> Administrator: XAMPP for Windows - mysql -u root -p

Setting environment for using XAMPP for Windows.
PC-LAB-2BA3@PC-LAB-2BA3 c:\xampp
# mysql -u root -p
Enter password:
Welcome to the MariaDB monitor.  Commands end with ; or \g.
Your MariaDB connection id is 15
Server version: 10.4.27-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)]> create database latihan1;
Query OK, 1 row affected (0.001 sec)
```

2. select user(), version();

```
MariaDB [(none)]>
MariaDB [(none)]> select user(), version();
+-----+-----+
| user()          | version()          |
+-----+-----+
| root@localhost | 10.4.27-MariaDB    |
+-----+-----+
1 row in set (0.000 sec)
```

3. select curdate();

```
MariaDB [(none)]>
MariaDB [(none)]> select curdate();
+-----+
| curdate() |
+-----+
| 2023-02-16 |
+-----+
1 row in set (0.001 sec)
```

4. select curtime();

```
MariaDB [(none)]>
MariaDB [(none)]> select curtime();
+-----+
| curtime() |
+-----+
| 09:31:36 |
+-----+
1 row in set (0.001 sec)
```

5. select now();

```
MariaDB [(none)]>
MariaDB [(none)]> select now();
+-----+
| now() |
+-----+
| 2023-02-16 09:31:36 |
+-----+
1 row in set (0.000 sec)
```

6. select 5 + 5;

```
MariaDB [(none)]>
MariaDB [(none)]> select 5 + 5;
+-----+
| 5 + 5 |
+-----+
| 10 |
+-----+
1 row in set (0.000 sec)
```

7. create database latihan2;

```
MariaDB [(none)]>
MariaDB [(none)]> create database latihan2;
Query OK, 1 row affected (0.001 sec)
```

8. show databases;

```
MariaDB [(none)]>
MariaDB [(none)]> show databases;
+-----+
| Database |
+-----+
| information_schema |
| latihan1 |
| latihan2 |
| mysql |
| performance_schema |
| phpmyadmin |
| test |
+-----+
7 rows in set (0.000 sec)
```

9. drop database latihan2;

```
MariaDB [(none)]>
MariaDB [(none)]> drop database latihan2;
Query OK, 0 rows affected (0.001 sec)
```

10. show databases;

```
MariaDB [(none)]>
MariaDB [(none)]> show databases;
+-----+
| Database |
+-----+
| information_schema |
| latihan1 |
| mysql |
| performance_schema |
| phpmyadmin |
| test |
+-----+
6 rows in set (0.000 sec)
```

11. use latihan1;

```
MariaDB [(none)]>
MariaDB [(none)]> use latihan1;
Database changed
```

12. show tables;

```
MariaDB [latihan1]>
MariaDB [latihan1]> show tables;
Empty set (0.000 sec)
```

13. create table karyawan;

```
MariaDB [latihan1]>
MariaDB [latihan1]> create table karyawan;
ERROR 1113 (42000): A table must have at least 1 column
```

14. create table karyawan (  
nopeg INT UNSIGNED AUTO\_INCREMENT PRIMARY KEY,  
nama VARCHAR(50) NOT NULL  
);

```
MariaDB [latihan1]>
MariaDB [latihan1]> create table karyawan (
->     nopeg INT UNSIGNED AUTO_INCREMENT PRIMARY KEY,
->     nama  VARCHAR(50) NOT NULL
-> );
Query OK, 0 rows affected (0.013 sec)
```

15. show tables;

```
MariaDB [latihan1]>
MariaDB [latihan1]> show tables;
+-----+
| Tables_in_latihan1 |
+-----+
| karyawan           |
+-----+
1 row in set (0.000 sec)
```

16. describe karyawan;

```
MariaDB [latihan1]>
MariaDB [latihan1]> describe karyawan;
+-----+-----+-----+-----+-----+-----+
| Field | Type                | Null | Key | Default | Extra           |
+-----+-----+-----+-----+-----+-----+
| nopeg | int(10) unsigned    | NO   | PRI | NULL    | auto_increment |
| nama  | varchar(50)         | NO   |     | NULL    |                 |
+-----+-----+-----+-----+-----+-----+
2 rows in set (0.007 sec)
```

17. show columns from karyawan;

```
MariaDB [latihan1]>
MariaDB [latihan1]> show columns from karyawan;
+-----+-----+-----+-----+-----+-----+
| Field | Type                | Null | Key | Default | Extra          |
+-----+-----+-----+-----+-----+-----+
| nopeg | int(10) unsigned    | NO   | PRI | NULL    | auto_increment |
| nama  | varchar(50)         | NO   |     | NULL    |                |
+-----+-----+-----+-----+-----+-----+
2 rows in set (0.003 sec)
```

18. create table contoh1 (  
    noid INT  
);

```
MariaDB [latihan1]>
MariaDB [latihan1]> create table contoh1 (
->     noid INT
-> );
Query OK, 0 rows affected (0.011 sec)
```

19. show tables;

```
MariaDB [latihan1]>
MariaDB [latihan1]> show tables;
+-----+
| Tables_in_latihan1 |
+-----+
| contoh1             |
| karyawan            |
+-----+
2 rows in set (0.000 sec)
```

20. drop table contoh1;

```
MariaDB [latihan1]>
MariaDB [latihan1]> drop table contoh1;
Query OK, 0 rows affected (0.006 sec)
```

21. show tables;

```
MariaDB [latihan1]>
MariaDB [latihan1]> show tables;
+-----+
| Tables_in_latihan1 |
+-----+
| karyawan            |
+-----+
1 row in set (0.000 sec)
```