

PROGRAM TEKNOLOGI BASIS DATA

PRAKTIKUM 3

“Membuat Database Pegawai & Hewan Menggunakan MySql dan Command Prompt”

Diajukan untuk memenuhi Nilai UTS Mata Kuliah Teknologi Basis Data



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“Hasil Output Dari Perintah-perintah percobaan Praktikum 4”

Langkah-langkah :

1. Hubungkan Cmd dengan MySql terlebih dahulu

```
Microsoft Windows [Version 10.0.17134.590]
(c) 2018 Microsoft Corporation. All rights reserved.

C:\Users\ASUS>cd C:\xampp\mysql\bin
```

```
C:\xampp\mysql\bin>mysql -u root
Welcome to the MariaDB monitor.  Commands end with ; or \g.
Your MariaDB connection id is 71
Server version: 10.1.32-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;
```

2. Tampilkan Database yang telah di Buat terlebih dahulu melalui MySql LocalHost/phpmyadmin dan telah terhubung dengan Xampp dan Cmd.

```
MariaDB [(none)]> show databases;
+-----+
| Database |
+-----+
| information_schema |
| mysql |
| performance_schema |
| phpmyadmin |
| praktikum2 |
| praktikum4 |
| praktikum5 |
| test |
+-----+
3 rows in set (0.00 sec)

MariaDB [(none)]> use praktikum4;
Database changed
MariaDB [praktikum4]> show tables;
```

3. Lalu tampilkan Table yang telah dibuat diDatabase

```
MariaDB [(none)]> use praktikum4;
Database changed
MariaDB [praktikum4]> show tables;
+-----+
| Tables_in_praktikum4 |
+-----+
| pegawai |
| pet |
+-----+
2 rows in set (0.00 sec)
```

4. Menampilkan pegawai yang gajinya bukan 2.000.000 dan 1.250.000 !

```
MariaDB [praktikum4]> select * from pegawai where gaji != 2000000 and gaji !=1250000;
```

idpegawai	namadepan	namabelakang	email	telepon	tglkontrak	idjob	gaji	tunjangan
E003	faiz	ahmad	faiz@gmail.com	081367384322	2006-10-01	L0003	1500000	NULL
E004	emma	bunton	emma@gmail.com	081363484342	2006-10-01	L0004	1500000	0
E006	lincoln	burrows	linc@yahoo.com	08527388432	2008-09-01	L0006	1750000	NULL

```
3 rows in set (0.00 sec)
```

5. Menampilkan pegawai yang tunjangan nya NULL!

```
MariaDB [praktikum4]> select * from pegawai where tunjangan is null;
```

idpegawai	namadepan	namabelakang	email	telepon	tglkontrak	idjob	gaji	tunjangan
E003	faiz	ahmad	faiz@gmail.com	081367384322	2006-10-01	L0003	1500000	NULL
E006	lincoln	burrows	linc@yahoo.com	08527388432	2008-09-01	L0006	1750000	NULL

```
2 rows in set (0.00 sec)
```

6. Menampilkan pegawai yang tunjangan nya tidak NULL!

```
MariaDB [praktikum4]> select * from pegawai where tunjangan is not null;
```

idpegawai	namadepan	namabelakang	email	telepon	tglkontrak	idjob	gaji	tunjangan
E001	ferry	gustiawan	ferry@yahoo.com	07117059004	2005-09-01	L0001	2000000	500000
E002	aris	ganiardi	aris@yahoo.com	081312345678	2006-09-01	L0002	2000000	200000
E004	emma	bunton	emma@gmail.com	081363484342	2006-10-01	L0004	1500000	0
E005	mike	scof	mike@plasa.com	08163454555	2007-09-01	L0005	1250000	0

```
4 rows in set (0.00 sec)
```

7. Menampilkan/hitung jumlah baris/record tabel pegawai!

```
MariaDB [praktikum4]> select count(id) from pegawai;
ERROR 1146 (42S02): Table 'praktikum4.pegawai' doesn't exist
MariaDB [praktikum4]> select count(id) from pegawai;
ERROR 1054 (42S22): Unknown column 'id' in 'field list'
MariaDB [praktikum4]> select count(idpegawai) from pegawai;
```

count(idpegawai)
6

```
1 row in set (0.00 sec)
```

8. Menampilkan/hitung jumlah total gaji di tabel pegawai!

```
MariaDB [praktikum4]> select sum(gaji) from pegawai;
```

sum(gaji)
10000000

```
1 row in set (0.13 sec)
```

9. Menampilkan/hitung rata-rata gaji pegawai!

```
MariaDB [praktikum4]> select avg(gaji) as rata2_gaji from pegawai;
+-----+
| rata2_gaji |
+-----+
| 1666666.6667 |
+-----+
1 row in set (0.00 sec)
```

10. Menampilkan gaji terkecil!

```
MariaDB [praktikum4]> select min(gaji) as gaji_terkecil from pegawai;
+-----+
| gaji_terkecil |
+-----+
|          1250000 |
+-----+
1 row in set (0.02 sec)
```

11. Menampilkan gaji terbesar!

```
MariaDB [praktikum4]> select max(gaji) as gaji_terbesar from pegawai;
+-----+
| gaji_terbesar |
+-----+
|          2000000 |
+-----+
1 row in set (0.00 sec)
```

“Hasil OutPut dari Membuat Table Pet”

1. Setelah table pegawai selesai bisa langsung digabung dengan table Pet.

```
MariaDB [praktikum4]> select * from pet;
```

name	owner	species	sex	birth	death
Puffball	Diane	Hamster	F	1999-03-03	NULL
Claws	Gwen	Cat	M	1994-03-17	NULL
Fluffy	Harrold	Cat	F	1993-02-04	NULL
Buffy	Harrold	Dog	F	1989-05-13	NULL
Fang	Benny	Dog	M	1990-08-27	NULL
Bowser	Diane	Dog	M	1989-08-31	1995-07-29
Chirpy	Gwen	Bird	F	1998-09-11	NULL
Whistler	Gwen	Bird	NULL	1997-12-09	NULL
Slim	Benny	Snake	M	1996-04-29	NULL

```
9 rows in set (0.00 sec)
```

2. Tampilkan jumlah hewan yang dimiliki setiap owner.

```
MariaDB [praktikum4]> select owner, count(name) as jumlah_hewan_peliharaan from pet group by owner;
```

owner	jumlah_hewan_peliharaan
Benny	2
Diane	2
Gwen	3
Harrold	2

```
4 rows in set (0.01 sec)
```

3. Tampilkan jumlah hewan berdasarkan spesies

```
MariaDB [praktikum4]> select species, count(species) as jumlah from pet group by species;
```

species	jumlah
Bird	2
Cat	2
Dog	3
Hamster	1
Snake	1

```
5 rows in set (0.00 sec)
```

4. Tampilkan jumlah hewan berdasarkan jenis kelamin

```
MariaDB [praktikum4]> select sex, count(sex) as jumlah from pet group by sex;
```

sex	jumlah
NULL	0
F	4
M	4

```
3 rows in set (0.00 sec)
```

5. Tampilkan jumlah hewan berdasarkan spesies dan jenis kelamin

```
MariaDB [praktikum4]> select species, sex, count(sex) as jumlah from pet group by species, sex;
```

species	sex	jumlah
Bird	NULL	0
Bird	F	1
Cat	F	1
Cat	M	1
Dog	F	1
Dog	M	2
Hamster	F	1
Snake	M	1

```
8 rows in set (0.00 sec)
```

6. Tampilkan jumlah hewan berdasarkan spesies (cat dan dog saja) dan jenis kelamin

```
MariaDB [praktikum4]> select species, sex, count(sex) as jumlah from pet group by species, sex having pet.species = "cat" or pet.species = "Dog";
```

species	sex	jumlah
Cat	F	1
Cat	M	1
Dog	F	1
Dog	M	2

```
4 rows in set (0.02 sec)
```

7. Tampilkan jumlah hewan berdasarkan jenis kelamin yang diketahui saja

```
MariaDB [praktikum4]> select species, count(sex) as jumlah from pet group by species;
```

species	jumlah
Bird	1
Cat	2
Dog	3
Hamster	1
Snake	1

```
5 rows in set (0.00 sec)
```

```
MariaDB [praktikum4]>
```