TEKNOLOGI BASIS DATA

Praktikum MySQL pada CMD Tugas Praktikum 4 Basis Data



Oleh:

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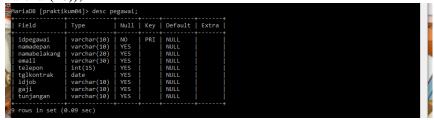
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TI.17.D2

Program Studi Teknik Informatika Sekolah Tinggi Teknik Pelita Bangsa 2019/2020

A. Membuat tabel

create table pegawai(idpegawai varchar(10), namadepan varchar(10), namabelakang varchar(20), email varchar(30), telepon int(15), tglkontrak date, idjob varchar(10), gaji vaechar(10), tunjangan varchar(10));



B. Menginput data

Insert into pegawai

(id pegawai, namadepan, namabelakang, email, telepon, tglkontrak, idjob, gaji, tunjangan) Values

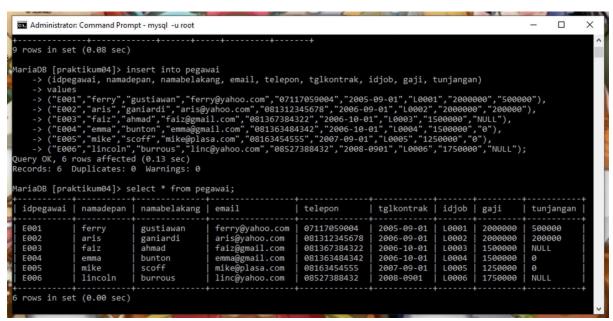
```
("E001","ferry","gustiawan","<u>ferry@yahoo.com</u>","07117059004","2005-09-01","L0001","2000000","500000"),
```

```
("E002", "aris", "ganiardi", "aris@yahoo.com", "081312345678", "2006-09-01", "L0002", "2000000", "2000000"),
```

```
("E003", "faiz", "ahmad", "faiz@gmail.com", "081367384322", "2006-10-01", "L0003", "1500000", "NULL"),
```

('E004","emma","bunton","<u>emma@gmail.com</u>","081363484342","2006-10-01","L0004","150000","NULL"),

("E005","mike","scoff",mike@plasa.com,"



1. Tampilkan pegawai yang gajinya bukan 2000000 dan 1250000

```
Select * from pegawai
Where gaji !="2000000"
And gaji !="1250000";
Atau
Select * from pegawai
Where gaji<>"2000000"
And gaji<>"1250000";
```



Atau seperti ini

```
MariaD8 [praktikum04]> select * from pegawai
-> where gaji<> "2000000"
-> and gaji<> "12500000";
| idpegawai | namadepan | namabelakang | email | telepon | tglkontrak | idjob | gaji | tunjangan |
| E003 | faiz | ahmad | fariz@gmail.com | 2147483647 | 2006-10-01 | L0003 | 1500000 | NULL |
| E004 | emma | bunton | emma@gmail.com | 2147483647 | 2006-10-01 | L0003 | 1500000 | 0 |
| E005 | mike | scoff | mike@plasa.com | 2147483647 | 2007-09-01 | L0005 | 1250000 | 0 |
| E006 | lincoln | burrous | linc@yahoo.com | 2147483647 | 2008-09-01 | L0005 | 1750000 | NULL |
| 4 rows in set (0.06 sec)
```

2. Tampilkan pegawai yang tunjangannya null

Select * from pegawai where tunjangan="NULL";

idpegawai	namadepan	namabelakang	email	telepon	tglkontrak	idjob	gaji	tunjangan
E003 E006	faiz lincoln	ahmad burrous	fariz@gmail.com linc@yahoo.com				1500000 1750000	

3. Tampilkan pegawai yang tunnjangannya tidak null

Select*from pegawai where tunjangan<>"NULL";

idpegawai	namadepan	namabelakang	email	telepon	tglkontrak	idjob	gaji	tunjangan
E001	ferry	gustiawan	ferry@yahoo.com	2147483647	2005-09-01	L0001	2000000	500000
E002	aris	guniardi	aris@yahoo.com	2147483647	2006-09-01	L0002	2000000	200000
E004	emma	bunton	emma@gmail.com	2147483647	2006-10-01	L0004	1500000	0
E005	mike	scoff	mike@plasa.com	2147483647	2007-09-01	L0005	1250000	0

4. Tampilkan/hitung jumlah baris/record tabel pegawai

Select count(*) from pegawai;

```
MariaDB [praktikum04]> select count(*) from pegawai;

| count(*) |
| 6 |
| 1 row in set (0.00 sec)

MariaDB [praktikum04]> _
```

5. Tampilkan/hitung jumlah total gaji di tabel pegawai

Select sum (gaji) from pegawai;

```
| sum(gaji) |
| sum(gaji) |
| 10000000 |
| row in set (0.00 sec)
```

Atau bisa juga menggunakan

Select sum(gaji) as jumlah from pegawai;

```
MariaDB [praktikum04]> select sum(gaji) as jumlah from pegawai;
| jumlah |
| 10000000 |
| 1 row in set (0.00 sec)
| MariaDB [praktikum04]> _
```

6. Tampilkan atau hitung rata – rata gaji Select avg (gaji) from pegawai;

```
agwariaDB [praktikum04]> select avg (gaji) from pegawai;

avg (gaji) |

1 1666666.66666666667 |

1 row in set (0.00 sec)

MariaDB [praktikum04]> _
```

Atau

Select avg (gaji) as rerata from pegawai;

7. Tampilkan gaji terkecil

Select min(gaji) from pegawai;

```
MariaDB [praktikum04]> select min(gaji) from pegawai;

| min(gaji) |
| 2250000 |
| 1 row in set (0.00 sec)

| MariaDB [praktikum04]>
```

Atau

Select min(gaji) as termurah from pegawai;

```
cMariaDB [praktikum04]> select min(gaji) as termurah from pegawai;

| termurah |
| 1250000 |
| 1 row in set (0.00 sec)

MariaDB [praktikum04]>
```

8. Tampilkan gaji terbesar

Select max(gaji) from pegawai;

Atau

Select max(gaji) as termahal from pegawai;

```
Commaniable [praktikum04]> select max(gaji) as termahal from pegawai;

| termahal |
| 2000000 |
| row in set (0.00 sec)

Mariable [praktikum04]>
```

Tabel pet

A. Membuat tabel

Create table pet(name varchar(10), owner varchar(10), species varchar(10), sex varchar(5), birth date, death date);

```
Microsoft Windows [Version 10.0.17763.792]
(c) 2018 Microsoft Corporation. All rights reserved.

C:\WINDOWS\system32>cd C:\xampp\mysql\bin
C:\xampp\mysql\bin>mysql -u root
Welcome to the Marial0B monitor. Commands end with ; or \g.
Your Maria0B connection id is 16
Server version: 10.1.10-Maria0B mariadb.org binary distribution

Copyright (c) 2000, 2015, Oracle, Maria0B Corporation Ab and others.

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

Maria0B [(none)]> use praktikum04;
Database changed
Maria0B [praktikum04]> create table pet(name varchar(10), owner varchar(10), species varchar(10), sex varchar(5), birth date, death date);
Query OK, 0 rows affected (0.65 sec)
```

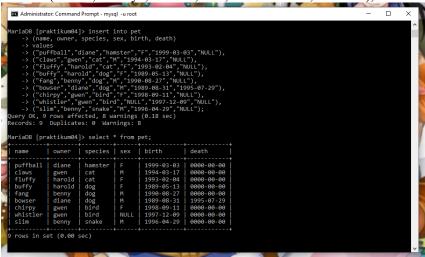


B. Menginput datanya

Insert into pet

Values

("puffball", "diane", "hamster", "F", "1999-03-03", "NULL"), ("claws", "gwen", "cat", "M", "1994-03-17", "NULL"), ("fluffy", "harold", "cat", "F", "1993-02-04", "NULL"), ("buffy", "harold", "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"),



1. Tampilkan jumlah hewan yang dimiliki setiap owner Select owner, count(name) as total from pet group by owner;

2. Tampilkan jumlah hewan berdasarkan spesies Select species, count(name) as total from pet group by species;

3. Tampilkan jumlah hewan berdasarkan jenis kelamin Select sex, count(name) as total from pet group by sex;

4. Tampilkan jumlah hewan berdasarkan spesies dan jenis kelamin Select species, sex, count(name) as total from pet group by species, sex;

5. Tampilkan jumlah hewan berdasarkan spesies (cat dan dog saja) dan jenis kelamin Select species, sex, count(name) as total from pet group by species, sex having pet.species="cat" or pet.species="dog";

```
MariaDB [praktikum04]> select species, sex, count(name) as total from pet group by species, sex having pet.species=
"cat" or pet.species="dog";

| species | sex | total | | |
| cat | F | 1 |
| cat | M | 1 |
| dog | F | 1 |
| dog | M | 2 |
| total | total |
| dos | m | 2 |
| total | total | total |
| dos | m | 2 |
| total | total | total |
| total | total | total | total |
| total | total | total | total | total |
| total |
```

6. Tampilkan jumlah hewan berdasarkan jenis kelamin yang diketahui saja Select species, count(name) as total from pet group by species;