

**Teknologi Basis Data**  
**Praktikum Membuat DataBase MySQL Menggunakan**  
**CMD**



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## Tugas Pratikum 3

- Buatlah tabel data seperti berikut.

idpegawai	namadepan	namabelakang	email	telepon	tylkontrak	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
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
E005	mike	scoff	mike@plaza.com	08163454555	2007-09-01	L0005	1250000	0
E006	lincoln	burrows	linc@yahoo.com	08527388432	2008-09-01	L0006	1750000	NULL

Source Code :

*Insert Into Pegawai values ('.....','.....','.....','.....','.....','.....','.....','.....','.....');*

```
MariaDB [Latihan031] > Insert Into Pegawai values
-> ('E001','Ferry','Gustiawan','ferry@yahoo.com','08577734562','2005-09-01','L0001','2000000','500000'),
-> ('E002','Aris','Ganiardi','aris@yahoo.com','08572341661','2006-09-01','L0002','2000000','200000'),
-> ('E003','Faiz','Ahmad','faiz@yahoo.com','08577234829','2006-10-01','L0003','1500000','NULL'),
-> ('E004','Emma','Buton','emma@yahoo.com','08777345663','2006-10-02','L0004','1500000','0'),
-> ('E005','Mike','Scoff','mike@yahoo.com','08777345453','2007-09-01','L0005','1250000','0'),
-> ('E006','Lincoln','Burrows','linc@yahoo.com','087773425677','2008-09-01','L0006','1750000','NULL');
Query OK, 6 rows affected (0.13 sec)
Records: 6 Duplicates: 0 Warnings: 0
```

- Tampilkan pegawai yang gajinya bukan 2.000.000 dan 1.250.000 !

Source Code :

*Select \* from Pegawai where gaji != 2000000 and gaji != 1250000;*

```
MariaDB [Latihan031] > Select * from pegawai where gaji != 2000000 and gaji != 1250000;
+-----+-----+-----+-----+-----+-----+
| Id_Pegawai | Nama_Depan | Nama_Belakang | Email | Telepon | Tang |
| gal_Kontrak | Id_Job | Gaji | Tunjangan |
+-----+-----+-----+-----+-----+-----+
| E003 | Faiz | Ahmad | faiz@yahoo.com | 08577234829 | 2006 |
| -10-01 | L0003 | 1500000 | NULL |
| E004 | Emma | Buton | emma@yahoo.com | 08777345663 | 2006 |
| -10-02 | L0004 | 1500000 | 0 |
| E006 | Lincoln | Burrows | linc@yahoo.com | 087773425677 | 2008 |
| -09-01 | L0006 | 1750000 | NULL |
+-----+-----+-----+-----+-----+-----+
3 rows in set (0.00 sec)
```

- Tampilkan pegawai yang tunjangannya NULL!

Source Code :

*Select \* From Pegawai tunjangan is null;*

```
MariaDB [Latihan03]> select * From pegawai where tunjangan is null;
```

Id_Pegawai	Nama_Depan	Nama_Belakang	Email	Telepon	Tanggal_Kontrak	Id_Job	Gaji	Tunjangan
E003	Faiz	Ahmad	faiz@yahoo.com	08577234829	2006-10-01	L0003	1500000	NULL
E006	Lincoln	Burrows	linc@yahoo.com	087773425677	2008-09-01	L0006	1750000	NULL

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

### 3. Tampilkan pegawai yang tunjangannya tidak NULL!

Source Code :

*Select \* From Pegawai **tunjangan is not null**;*

```
MariaDB [Latihan03]> Select * From Pegawai where tunjangan is not null;
```

Id_Pegawai	Nama_Depan	Nama_Belakang	Email	Telepon	Tanggal_Kontrak	Id_Job	Gaji	Tunjangan
E001	Ferry	Gustiawan	ferry@yahoo.com	08577734562	2005-09-01	L0001	2000000	500000
E002	Aris	Ganiardi	aris@yahoo.com	08572341661	2006-09-01	L0002	2000000	200000
E004	Emma	Buton	emma@yahoo.com	08777345663	2006-10-02	L0004	1500000	0
E005	Mike	Scoff	mike@yahoo.com	08777345453	2007-09-01	L0005	1250000	0

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

### 4. Tampilkan/hitung jumlah baris/record tabel pegawai!

Source Code :

*Select count(id\_pegawai) from pegawai;*

```
MariaDB [Latihan03]> Select count(id_pegawai) from Pegawai;
```

count(id_pegawai)
6

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

### 5. Tampilkan/hitung jumlah total gaji di tabel pegawai!

Source Code :

*Select sum(gaji) from pegawai;*

```
MariaDB [Latihan03]> Select sum(gaji) from Pegawai;
```

sum(gaji)
100000000

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

### 6. Tampilkan/hitung rata-rata gaji pegawai!

Source Code :

*Select avg(gaji) from Pegawai;*

```
MariaDB [Latihan031] > Select avg(gaji) from Pegawai;
+-----+
| avg(gaji) |
+-----+
| 1666666.6667 |
+-----+
1 row in set (0.01 sec)
```

## 7. Tampilkan gaji terkecil!

Source Code :

*Select min(gaji) from pegawai;*

```
MariaDB [Latihan031] > Select min(Gaji) from Pegawai;
+-----+
| min(Gaji) |
+-----+
| 12500000 |
+-----+
1 row in set (0.00 sec)
```

## 8. Tampilkan gaji terbesar!

Source Code :

*Select Max(gaji) from pegawai;*

```
MariaDB [Latihan031] > Select max(Gaji) from Pegawai;
+-----+
| max(Gaji) |
+-----+
| 20000000 |
+-----+
```

## • Buat table pet dan isi datanya seperti berikut:

name	owner	species	sex	birth	death
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

Source Code :

*Insert Into Mahasiswa values ('.....','.....','.....','.....','.....','.....');*

```

MariaDB [latihan03]> Insert Into pet value
-> (<'Puffball','Diana','Hamster','f','1999-03-17',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','Diana','Dog','m','1989-08-31','1995-07-29'>,
-> (<'Chirpy','Gwen','Bird','f','1998-09-11',Null>,
-> (<'Whistle','Gwen','Bird','null','1997-12-09',Null>,
-> (<'Slim','Benny','Snake','m','1996-04-29',Null>;
Query OK, 9 rows affected (0.22 sec)
Records: 9  Duplicates: 0  Warnings: 0

MariaDB [latihan03]> Select * From Pet;
+-----+-----+-----+-----+-----+-----+
| Name      | Owner  | Species | Sex   | birth      | Death      |
+-----+-----+-----+-----+-----+-----+
| Puffball   | Diana  | Hamster | f     | 1999-03-17 | 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     | Diana  | Dog     | m     | 1989-08-31 | 1995-07-29 |
| Chirpy     | Gwen   | Bird    | f     | 1998-09-11 | NULL       |
| Whistle    | Gwen   | Bird    | null  | 1997-12-09 | NULL       |
| Slim      | Benny  | Snake   | m     | 1996-04-29 | NULL       |
+-----+-----+-----+-----+-----+-----+
9 rows in set (0.00 sec)

```

### 1. Tampilkan jumlah hewan yang dimiliki setiap owner.

Source Code :

*Select Owner, count(name) from pet group by Owner;*

```

MariaDB [Latihan03]> Select owner, count(name) From Pet group by owner;
+-----+-----+
| owner | count(name) |
+-----+-----+
| Benny | 2           |
| Diana | 2           |
| Gwen  | 3           |
| Harold | 2          |
+-----+-----+
4 rows in set (0.08 sec)

```

### 2. Tampilkan jumlah hewan berdasarkan spesies.

Source Code :

*Select Species, count(species) from pet group by species;*

```

MariaDB [Latihan03]> Select Species, count(species) from pet group by species;
+-----+-----+
| Species | count(species) |
+-----+-----+
| Bird    | 2              |
| Cat     | 2              |
| Dog     | 3              |
| Hamster | 1              |
| Snake   | 1              |
+-----+-----+
5 rows in set (0.00 sec)

```

### 3. Tampilkan jumlah hewan berdasarkan jenis kelamin.

Source Code :

*Select sex, count(sex) from pet group by sex;*

```
MariaDB [Latihan031] > Select sex, count<sex> from pet group by sex;
```

sex	count<sex>
f	4
m	4
null	1

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

4. Tampilkan jumlah hewan berdasarkan spesies dan jenis kelamin.

Source Code :

*Select species, sex, count(sex) from pet group by species, sex;*

```
MariaDB [Latihan031] > select species, sex, count<sex> from pet group by species, sex;
```

species	sex	count<sex>
Bird	f	1
Bird	null	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)
```

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

Source Code :

*Select Species, sex, count(sex) from pet group by species, sex having pet.species = 'cat' or pet.Species = 'Dog';*

```
MariaDB [Latihan031] > Select Species, sex, count<sex> from pet group by species, sex having pet.species = 'Cat' or pet.Species = 'Dog';
```

Species	sex	count<sex>
Cat	f	1
Cat	m	1
Dog	f	1
Dog	m	2

```
4 rows in set (0.07 sec)
```

6. Tampilkan jumlah hewan berdasarkan jenis kelamin yang diketahui saja.

Source Code :

*Select species, count(sex) drom pet group by species;*

```
MariaDB [Latihan031] > Select Species, count<sex> from pet group by species;
```

Species	count<sex>
Bird	2
Cat	2
Dog	3
Hamster	1
Snake	1

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

## **KESIMPULAN**

- Untuk menghitung jumlah rata-rata gaji pegawai digunakan : AVG
- Untuk menghitung banyak data pegawai digunakan :COUNT
- Untuk menghitung Gaji pegawai terbesar dan terkecil digunakan : MAX & MIN
- Untuk menghitung jumlah dari data digunakan : SUM