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## Tugas Praktikum

- Buat Table pegawai dan isi datanya seperti berikut:

idpegawai	nama depan	nama belakang	email	telepon	tglkontrak	idjob	gaji	tunjangan
E001	Ferry	gustawan	ferry@yahoo.com	07117959004	2005-09-01	L0001	2000000	500000
E002	aris	ganlardi	aris@yahoo.com	081312345678	2006-09-01	L0002	2000000	200000
E003	fais	shad	fais@gmail.com	081367384323	2006-10-01	L0003	1500000	NULL
E004	esna	huton	esna@gmail.com	081363484342	2006-10-01	L0004	1500000	0
E005	mike	coff	mike@laza.com	08163454555	2007-09-01	L0005	1250000	0
E006	lincoln	hureous	linc@yahoo.com	08527388432	2008-09-01	L0006	1750000	NULL

## Tugas Praktikum

1. Tampilkan pegawai yang gajinya bukan 2.000.000 dan 1.250.000 !
2. Tampilkan pegawai yang tunjangannya NULL!
3. Tampilkan pegawai yang tunjangannya tidak NULL!
4. Tampilkan/hitung jumlah baris/record tabel pegawai!
5. Tampilkan/hitung jumlah total gaji di tabel pegawai!
6. Tampilkan/hitung rata-rata gaji pegawai!
7. Tampilkan gaji terkecil!
8. Tampilkan gaji terbesar!

## Jawab

Langkah-langkah :

1. Buat table baru dengan nama pegawai.

```
MariaDB [(none)]> use latihan01;
Database changed
MariaDB [latihan01]> create table pegawai;
ERROR 1113 (42000): A table must have at least 1 column
MariaDB [latihan01]> create table pegawai (
  -> id_pegawai varchar(8),
  -> nama_depan varchar(10),
  -> nama_belakang varchar(10),
  -> email varchar(20),
  -> telepon varchar(15),
  -> tgl_kontrak date,
  -> id_job varchar(8),
  -> gaji int(10),
  -> tunjangan int(10));
Query OK, 0 rows affected (0.42 sec)
```

2. **desc pegawai;** untuk melihat tabelnya.

```
MariaDB [latihan01]> desc pegawai;
+-----+-----+-----+-----+-----+-----+
| Field      | Type      | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| id_pegawai | varchar(8) | YES  |     | NULL    |       |
| nama_depan  | varchar(10) | YES  |     | NULL    |       |
| nama_belakang | varchar(10) | YES  |     | NULL    |       |
| email       | varchar(20) | YES  |     | NULL    |       |
| telepon     | varchar(15) | YES  |     | NULL    |       |
| tgl_kontrak | date       | YES  |     | NULL    |       |
| id_job      | varchar(8) | YES  |     | NULL    |       |
| gaji        | int(10)    | YES  |     | NULL    |       |
| tunjangan   | int(10)    | YES  |     | NULL    |       |
+-----+-----+-----+-----+-----+-----+
9 rows in set (0.16 sec)
```

3. Isi data pada table tersebut.

```
MariaDB [latihan01]> insert into pegawai
  -> (id_pegawai, nama_depan, nama_belakang, email, telepon, tgl_kontrak, id_job, gaji, tunjangan)
  -> values
  -> ("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", "0813167384322", "2006-10-01", "L0003", 1500000, null),
  -> ("E004", "emma", "bunton", "emma@gmail.com", "0813163484342", "2006-10-01", "L0004", 1500000, 0),
  -> ("E005", "mike", "scoff", "mike@plasa.com", "08163454555", "2007-09-01", "L0005", 1250000, 0),
  -> ("E006", "lincoln", "burrows", "linc@gmail.com", "08527388432", "2008-09-01", "L0006", 1750000, null);
Query OK, 6 rows affected (0.16 sec)
Records: 6 Duplicates: 0 Warnings: 0
```

4. **select \* from pegawai** untuk melihat isi data.

```
MariaDB [latihan01]> select * from pegawai;
```

id_pegawai	nama_depan	nama_belakang	email	telepon	tgl_kontrak	id_job	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	0813167384322	2006-10-01	L0003	1500000	NULL
E004	emma	bunton	emma@gmail.com	0813163484342	2006-10-01	L0004	1500000	0
E005	mike	scoff	mike@plasa.com	08163454555	2007-09-01	L0005	1250000	0
E006	lincoln	burrows	linc@gmail.com	08527388432	2008-09-01	L0006	1750000	NULL

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

5. Tampilkan pegawai yang gajinya bukan 2000000 dan 1250000.

```
MariaDB [latihan01]> select * from pegawai where gaji != 2000000 and gaji != 1250000;
```

id_pegawai	nama_depan	nama_belakang	email	telepon	tgl_kontrak	id_job	gaji	tunjangan
E003	faiz	ahmad	faiz@gmail.com	0813167384322	2006-10-01	L0003	1500000	NULL
E004	emma	bunton	emma@gmail.com	0813163484342	2006-10-01	L0004	1500000	0
E006	lincoln	burrows	linc@gmail.com	08527388432	2008-09-01	L0006	1750000	NULL

```
3 rows in set (0.06 sec)
```

6. Tampilkan pegawai yang tunjangannya Null.

```
MariaDB [latihan01]> select * from pegawai where tunjangan is null;
```

id_pegawai	nama_depan	nama_belakang	email	telepon	tgl_kontrak	id_job	gaji	tunjangan
E003	faiz	ahmad	faiz@gmail.com	0813167384322	2006-10-01	L0003	1500000	NULL
E006	lincoln	burrows	linc@gmail.com	08527388432	2008-09-01	L0006	1750000	NULL

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

7. Tampilkan pegawai yang tunjangannya tidak Null.

```
MariaDB [latihan01]> select * from pegawai where tunjangan is not null;
```

id_pegawai	nama_depan	nama_belakang	email	telepon	tgl_kontrak	id_job	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	0813163484342	2006-10-01	L0004	1500000	0
E005	mike	scoff	mike@plasa.com	08163454555	2007-09-01	L0005	1250000	0

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

8. Tampilkan/hitung jumlah baris/record tabel pegawai.

```
MariaDB [latihan01]> select count(id_pegawai) as jml_baris from pegawai;
```

jml_baris
6

```
1 row in set (0.09 sec)
```

9. Tampilkan/hitung jumlah total gaji di tabel pegawai.

```
MariaDB [latihan01]> select sum(gaji) as total_gaji from pegawai;
+-----+
| total_gaji |
+-----+
| 10000000 |
+-----+
1 row in set (0.00 sec)
```

10. Tampilkan/hitung rata-rata gaji pegawai.

```
MariaDB [latihan01]> select avg(gaji) as rerata_gaji from pegawai;
+-----+
| rerata_gaji |
+-----+
| 1666666.6667 |
+-----+
1 row in set (0.01 sec)
```

11. Tampilkan gaji terkecil.

```
MariaDB [latihan01]> select min(gaji) as gaji_terkecil from data pegawai;
ERROR 1146 (42S02): Table 'latihan01.data' doesn't exist
MariaDB [latihan01]> select min(gaji) as gaji_terkecil from pegawai;
+-----+
| gaji_terkecil |
+-----+
| 1250000 |
+-----+
1 row in set (0.07 sec)
```

12. Tampilkan gaji terbesar.

```
MariaDB [latihan01]> select max(gaji) as gaji_terbesar from pegawai;
+-----+
| gaji_terbesar |
+-----+
| 2000000 |
+-----+
1 row in set (0.00 sec)
```