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Tugas: Databases [SQL Lanjutan]



A. Membuat Databases PEGAWI

Pertama kita buat create tabel databases terlebih dahulu, disini saya membuat database dengan nama **LATIHAN3** seperti yang terlihat di gambar01

lalu kita create table pegwai dengan mengisi (id_pegawai, nama_depan, nama_belakang, email, tlp, tgl_kontrak, id_job, gaji, dan tunjangan) seperti yang terlihat di gambar01

lalu kita masukan dengan cara **insret into pegawai** seperti yang terlihat pada gambar01 untuk melihat hasil tabelnya kita **select * from pegawai** seperti yang terlihat pada gambar01

```
[(none)]> create database latihan3;
(, 1 row affected (0.01 sec)
   riaDB [(none)]> use latihan3;
tabase changed
                 [(none)]> USE lattered.

c changed
[latihan3]> create table pegawai (
id_pegawai varchar (20) null,
nama depan varchar (20) null,
nama belakang varchar (20) null,
email varchar (10) null,
tlp varchar (12) null,
tgl kontrak varchar (30) null,
id_job varchar (10) null,
nedii varchar (50) null,
                     [latihan3]> insert into pegawai (id_pegawai,nama_depan,nama_belakang,email,tlp,tgl_kontrak,id_job,gaji,tunjangan) values
"E001", "Ferry", "Gustiawan", "ferry@yahoo.com", "07112059004", "2005-09-01", "L001", "2000000", "500000"),
"E002", "Aris", "Gunadi", "aris@yahoo.com", "081321345678", "2006-09-01", "L002", "2000000", "2000000"),
"E003", "Fariz", "Ahmad", "fariz@gmail.com", "081367384322", "2006-10-01", "L003", "15000000", "01),
"E004", "Fariz", "Ahmad", "fariz@gmail.com", "081363484322", "2006-10-01", "L004", "15000000", "0"),
"E005", "Mike", "Scoff", "mike@plasa.com", "08163454555", "2007-09-01", "L005", "1250000", "0"),
"E006", "lincoln", "Burrous", "linc@yahoo.com", "08527388432", "2008-09-01", "L006", "17500000", null);
(6 powe afforted & Manning (0.20 & 100000)
                                 rows affected, 6 warnings (0.20 sec)
Duplicates: 0 Warnings: 6
ariaDB [latihan3]> select * from pegawai;
                                             nama_depan |
                                                                                                                                                                                                                                          | tgl_kontrak | id_job | gaji
                                                                                                                                                                                                                                                                                                                                                                    tunjangan
                                                                                         nama_belakang | email
                                                                                                                                                                                            07112059004
081321345678
                                             Fariz
Emma
Mike
                                                                                                                                                                                            081367384322
081363484342
08163454555
                                                                                                                                                                                                                                                2006-10-01
2006-10-01
                                                                                          Ahmad
                                                                                                                                                                                                                                                                                                                                                                     NULL
                                              lincoln
```

Gambar01

1. Sekarang kita Tampilkan pegawai yang gajinya bukan 2.000.000 dan 1.250.000! Dan hasilnya seperti berikut :

| id_pegawai | nama_depan | nama_belakang | email | tlp | tgl_kontrak | id_job | gaji | tunjangan |
|------------|------------|---------------|------------|--------------|-------------|--------|----------|-----------|
| E003 | Fariz | Ahmad | fariz@gmai | 081367384322 | 2006-10-01 | L003 | 1500000 | NULL |
| E004 | Emma | Bunton | emma@gmail | 081363484342 | 2006-10-01 | L004 | 1500000 | 0 |
| E006 | lincoln | Burrous | linc@yahoo | 08527388432 | 2008-09-01 | L006 | 17500000 | NULL |

2. Sekarang kita coba Tampilkan pegawai yang tunjangannya NULL! Hasilnya seperti berikut :

```
MariaDB [latihan3]> select * from pegawai where tunjangan is null;
 id_pegawai | nama_depan | nama_belakang | email
                                                                          tgl_kontrak |
                                                                                         id_job | gaji
                                                                                                              tunjangan
              Fariz
lincoln
                            Ahmad
                                                           081367384322
                                                                           2006-10-01
                                                                                                              NULL
                                             fariz@gmai
                            Burrous
                                             linc@yahoo
                                                           08527388432
                                                                           2008-09-01
                                                                                                              NULL
 rows in set (0.00 sec)
```

3. Lalu kita coba lagi dengan Tampilkan pegawai yang tunjangannya tidak NULL! Hasilnya seperti berikut :

```
MariaDB [latihan3]> select * from pegawai where tunjangan is not null;
 id_pegawai | nama_depan | nama_belakang | email
                                                               tlp
                                                                               tgl_kontrak
                                                                                               id_job | gaji
                                                                                                                   | tunjangan
                              Gustiawan
                                                                                2005-09-01
                                                 ferry@yaho
                                                               07112059004
 E002
E004
                              Gunadi
Bunton
                                                               081321345678
081363484342
                                                                                               L002
L004
                                                                                                                     200000
                Aris
                                                aris@yahoo
                                                                                2006-09-01
                                                                                2006-10-01
                                                 emma@gmail
                Mike
                                                mike@plasa
                                                               08163454555
                                                                                2007-09-01
 rows in set (0.00 sec)
```

4. Dan kita coba lagi dengan Tampilkan/hitung jumlah baris/record tabel pegawai! Hasilnya seperti berikut :

5. Lalu kita coba lagi Tampilkan/hitung jumlah total gaji di tabel pegawai! Hasilnya seperti berikut :

```
MariaDB [latihan3]> select sum(gaji) from pegawai;

+-----+

| sum(gaji) |

+-----+

| 25750000 |

+-----+

1 row in set (0.00 sec)
```

6. Kita coba lagi Tampilkan/hitung rata-rata gaji pegawai! Hasilnya sebagai berikut:

7. Kita Tampilkan gaji terkecil! Hasilnya seperti berikut :

8. Lalu kita coba lagi Tampilkan gaji terbesar! Dan hasilnya seperti berikut :

B. Membuat PET Shop

Untuk membuat table pet shop kita lakukan hal yang sama seperti tadi, Kita create table pet terlebih dahulu dengan memasukan

```
create table pet (
   -> name varchar (10),
   -> owner varchar (20),
   -> species varchar (15),
   -> sex char (2),
   -> brith date,
   -> death date );
```

Setelah itu kita masukan data (name,owner,species,sex,brith,death) hewan tersebut dgn

insert into pet (name,owner,species,sex,brith,death) values

```
-> ("Pufball","Diana","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","Diana","Dog","M","1989-08-31","1995-07-29"),
-> ("Chripy","Gwen","Bird","F","1998-09-11",null),
-> ("Whistler","Gwen","Bird",null,"1997-12-09",null),
-> ("Slim","Benny","Snake","M","1996-04-29",null);
```

lalu kita masukan select * from pet

- 1. Tampilkan jumlah hewan yang dimiliki setiap owner
- 2. Tampilkan jumlah hewan berdasarkan spesies Hasilnya seperti pada gambar berikut :

```
MariaDB [latihan4]> select owner, count(name) as jumlah_hewan_peliharaan from pet group by owner;
        | jumlah_hewan_peliharaan |
 Benny
                                 2
                                 2
 Diana
 Gwen
                                 3
                                 2
 Harold
 rows in set (0.06 sec)
MariaDB [latihan4]> select species, count(species) as jumlah from pet group by species;
 Bird
                 2
 Cat
                 23
 Dog
 Hamster
 Snake
 rows in set (0.00 sec)
```

- 3. Tampilkan jumlah hewan berdasarkan jenis kelamin
- 4. Tampilkan jumlah hewan berdasarkan spesies dan jenis kelamin

hasilnya seperti gambar derikut :

```
MariaDB [latihan4]> select sex, count(sex) as jumlah from pet group by sex;
   sex
   NULL
                         0
                          4
   rows in set (0.00 sec)
MariaDB [latihan4]> select species, sex count(sex) as jumlah from pet group by species, sex;
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MariaDB
ex) as jumlah from pet group by species, sex' at line 1
MariaDB [latihan4]> select species, sex, count(sex) as jumlah from pet group by species, sex;
   species
                                | jumlah |
                     sex
   Bird
                      NULL
                                            0
   Bird
   Cat
   Cat
                      M
   Dog
   Dog
                      M
   Hamster
   Snake
                      M
```

- 5. Tampilkan jumlah hewan berdasarkan spesis (cat dan dog saja) dan jenis kelamin
- 6. Tampilkan jumlah hewan berdasarkan jenis kelamin yang diketahui saja

Hasilnya seperti pada gambar berikut :

-terimakasih-