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TUGAS PRAKTIKUM

Buat sebuah tabel pet dengan data sebagai 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

Langkah-langkah

1. Buat Database dengan nama latihan4, kemudian gunakan tabel latihan 4.

Ketik **create database latihan4;** kemudian enter

Lalu ketik **use latihan4;** kemudian enter

```
MariaDB [(none)]> create database latihan4;
Query OK, 1 row affected (0.14 sec)

MariaDB [(none)]> use latihan4;
Database changed
```

2. Buat tabel dengan nama table baru dengan nama pet

Ketik **create table pet (name varchar(15), owner varchar(15), species varchar(10), sex char(1), birth date, death date);** kemudian enter

```
MariaDB [latihan4]> create table pet (
-> name varchar(15),
-> owner varchar(15),
-> species varchar(10),
-> sex char(1),
-> birth date,
-> death date);
Query OK, 0 rows affected (0.39 sec)
```

Untuk menampilkan hasilnya ketik **desc pet;**

```
MariaDB [latihan4]> desc pet;
```

Field	Type	Null	Key	Default	Extra
name	varchar(15)	YES		NULL	
owner	varchar(15)	YES		NULL	
species	varchar(10)	YES		NULL	
sex	char(1)	YES		NULL	
birth	date	YES		NULL	
death	date	YES		NULL	

```
6 rows in set (0.18 sec)
```

3. Input data kedalam tabel pet sesuai pada tabel diatas

```
MariaDB [latihan4]> 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", "1980-08-27", null),
-> ("Bowser", "Diane", "Dog", "M", "1989-08-31", "1995-07-29"),
-> ("Chirpy", "Gwen", "Bird", "F", "1989-09-11", null),
-> ("Whistler", "Gwen", "Bird", null, "1997-12-09", null),
-> ("Slim", "Benny", "snake", "M", "1996-04-29", null);
Query OK, 9 rows affected (0.10 sec)
Records: 9  Duplicates: 0  Warnings: 0
```

4. Tampilkan jumlah hewan yang dimiliki setiap owner

Ketik **select owner, count(name) as jumlah_hewan_peliharaan from pet group by owner;** kemudian enter

```
MariaDB [latihan4]> select owner, count(name) as jumlah_hewan_peliharaan from pet group by owner;
```

owner	jumlah_hewan_peliharaan
Benny	2
Diane	2
Gwen	3
Harold	2

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

5. Tampilkan jumlah hewan berdasarkan species, ketik **select species, count(species) as jumlah from pet group by species;** kemudian enter

```
MariaDB [latihan4]> 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)
```

6. Tampilkan jumlah hewan berdasarkan jenis kelamin, ketik **select sex, count(sex) as jumlah from pet group by sex;** kemudian enter

```
MariaDB [latihan4]> 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)
```

7. Tampilkan jumlah hewan berdasarkan species dan jenis kelamin, ketik **select species, sex, count(sex) as jumlah from pet group by species, sex;** kemudian enter

```
MariaDB [latihan4]> 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)
```

8. Tampilkan jumlah hewan berdasarkan species (cat dan dog saja) dan jenis kelamin, ketik **select species sex, count(sex) as jumlah from pet group by species, sex having pet.species = "Cat" or pet.species ="Dog";** kemudian enter

```
MariaDB [latihan4]> 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)
```

9. Tampilkan jumlah hewan berdasarkan jenis kelamin yang diketahui saja, ketik **select species, count(sex) as jumlah from pet group by species;** kemudian enter

```
MariaDB [latihan4]> 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)
```

KESIMPULAN

MySQL mempunyai beberapa fungsi pengelompokan data, seperti:

- **GROUP BY** : untuk mengelompokan data berdasarkan field
- **HAVING** : untuk mengecek data apakah memiliki nilai tertentu