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Kasus 1 - Membuat database dan Tabel sederhana

1. Buatlah datatabase dengan nama: db_usaha

```
MariaDB [(none)]> create database db_usaha;
Query OK, 1 row affected (0.002 sec)

MariaDB [(none)]> show databases;
+-----+
| Database |
+-----+
| bd_tgs13 |
| db_usaha |
| demo     |
| information_schema |
| kuliah   |
| latihan_uas |
| mysql     |
| performance_schema |
| phpmyadmin |
| pw1_uas   |
| test      |
| tgs_bd    |
+-----+
12 rows in set (0.004 sec)

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

2. a) Buatlah table diatas dalam perintah SQL. Tentukan tipe data dari masing – masing atribut.

```
MariaDB [db_usaha]> create table branch(id_cabang varchar(4) primary key, alamat varchar(20), kota varchar(20), kodepos int(5));
Query OK, 0 rows affected (0.069 sec)

MariaDB [db_usaha]> desc branch;
+-----+-----+-----+-----+-----+-----+
| Field | Type | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| id_cabang | varchar(4) | NO | PRI | NULL | |
| alamat | varchar(20) | YES | | NULL | |
| kota | varchar(20) | YES | | NULL | |
| kodepos | int(5) | YES | | NULL | |
+-----+-----+-----+-----+-----+-----+
4 rows in set (0.033 sec)

MariaDB [db_usaha]> create table staf(nip varchar(3) primary key, nama varchar(15), posisi varchar(20), tgl_masuk date, gaji int(15));
Query OK, 0 rows affected (0.052 sec)

MariaDB [db_usaha]> desc staf;
+-----+-----+-----+-----+-----+-----+
| Field | Type | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| nip | varchar(3) | NO | PRI | NULL | |
| nama | varchar(15) | YES | | NULL | |
| posisi | varchar(20) | YES | | NULL | |
| tgl_masuk | date | YES | | NULL | |
| gaji | int(15) | YES | | NULL | |
+-----+-----+-----+-----+-----+-----+
5 rows in set (0.029 sec)
```

b) Isikan table yang telah dibuat dengan contoh table diatas (isian table boleh bebas).

```
MariaDB [db_usaha]> insert into branch values('B001','Imam Bonjol','Semarang', 50131);
Query OK, 1 row affected (0.004 sec)

MariaDB [db_usaha]> insert into branch values('B002','Laweyan','Solo',57148);
Query OK, 1 row affected (0.004 sec)

MariaDB [db_usaha]> insert into branch values('B003','Kaliurang','Yogyakarta',56483);
Query OK, 1 row affected (0.004 sec)

MariaDB [db_usaha]> select * from branch;
+-----+-----+-----+-----+
| id_cabang | alamat | kota | kodepos |
+-----+-----+-----+-----+
| B001 | Imam Bonjol | Semarang | 50131 |
| B002 | Laweyan | Solo | 57148 |
| B003 | Kaliurang | Yogyakarta | 56483 |
+-----+-----+-----+-----+
3 rows in set (0.001 sec)
```

```
MariaDB [db_usaha]> insert into staf values('A01','Wahyu','Asisten','2014-08-10',5000000);
Query OK, 1 row affected (0.005 sec)

MariaDB [db_usaha]> insert into staf values('M01','Budi','Manager','1996-01-01',10000000);
Query OK, 1 row affected (0.005 sec)

MariaDB [db_usaha]> insert into staf values('S01','Sari','Supervisor','2000-02-05',7500000);
Query OK, 1 row affected (0.005 sec)

MariaDB [db_usaha]> select * from staf;
+-----+-----+-----+-----+-----+
| nip | nama | posisi | tgl_masuk | gaji |
+-----+-----+-----+-----+-----+
| A01 | Wahyu | Asisten | 2014-08-10 | 5000000 |
| M01 | Budi | Manager | 1996-01-01 | 10000000 |
| S01 | Sari | Supervisor | 2000-02-05 | 7500000 |
+-----+-----+-----+-----+-----+
3 rows in set (0.001 sec)
```

Kasus 2 – Operator

1. Menampilkan gaji dalam 1 tahun

```
MariaDB [db_usaha]> select nip, nama, gaji*12 as gaji_dalam_setahun from staf;
+-----+-----+-----+
| nip | nama | gaji_dalam_setahun |
+-----+-----+-----+
| A01 | Wahyu | 60000000 |
| M01 | Budi | 120000000 |
| S01 | Sari | 90000000 |
+-----+-----+-----+
3 rows in set (0.001 sec)
```

2. Menampilkan tunjangan dengan rumus $0.2 * \text{gaji}$.

```
MariaDB [db_usaha]> select nip, nama, 0.2*gaji as tunjangan from staf;
+-----+-----+-----+
| nip | nama | tunjangan |
+-----+-----+-----+
| A01 | Wahyu | 1000000.0 |
| M01 | Budi | 2000000.0 |
| S01 | Sari | 1500000.0 |
+-----+-----+-----+
3 rows in set (0.001 sec)
```

3. Menampilkan “Total Gaji” dengan gaji + tunjangan.

```
MariaDB [db_usaha]> select nip, nama, gaji+(0.2*gaji) as total_gaji from staf;
+-----+-----+-----+
| nip | nama | total_gaji |
+-----+-----+-----+
| A01 | Wahyu | 6000000.0 |
| M01 | Budi | 12000000.0 |
| S01 | Sari | 9000000.0 |
+-----+-----+-----+
3 rows in set (0.001 sec)
```

4. Menampilkan masa kerja pegawai dengan rumus: tahun sekarang – tahun pada tanggal masuk.

```
MariaDB [db_usaha]> select nip, nama, year(now())-year(tgl_masuk) as masa_kerja from staf;
+-----+-----+-----+
| nip | nama | masa_kerja |
+-----+-----+-----+
| A01 | Wahyu | 8 |
| M01 | Budi | 26 |
| S01 | Sari | 22 |
+-----+-----+-----+
3 rows in set (0.001 sec)
```

5. Menampilkan data karyawan dengan posisi Manajer.

```
MariaDB [db_usaha]> select * from staf where posisi='Manager';
+-----+-----+-----+-----+-----+
| nip | nama | posisi | tgl_masuk | gaji |
+-----+-----+-----+-----+-----+
| M01 | Budi | Manager | 1996-01-01 | 10000000 |
+-----+-----+-----+-----+-----+
1 row in set (0.001 sec)
```

6. Menampilkan data karyawan dengan tunjangan lebih dari 500.000.

```
MariaDB [db_usaha]> select nip, nama, posisi, tgl_masuk, 0.2*gaji as tunjangan from staf where 0.2*gaji > 500000;
+-----+-----+-----+-----+-----+
| nip | nama | posisi | tgl_masuk | tunjangan |
+-----+-----+-----+-----+-----+
| A01 | Wahyu | Asisten | 2014-08-10 | 1000000.0 |
| M01 | Budi | Manager | 1996-01-01 | 2000000.0 |
| S01 | Sari | Supervisor | 2000-02-05 | 1500000.0 |
+-----+-----+-----+-----+-----+
3 rows in set (0.001 sec)
```

7. Menampilkan data karyawan dengan posisi tidak sama dengan manajer.

```
MariaDB [db_usaha]> select * from staf where posisi != 'Manager';
+-----+-----+-----+-----+-----+
| nip | nama | posisi | tgl_masuk | gaji |
+-----+-----+-----+-----+-----+
| A01 | Wahyu | Asisten | 2014-08-10 | 5000000 |
| S01 | Sari | Supervisor | 2000-02-05 | 7500000 |
+-----+-----+-----+-----+-----+
2 rows in set (0.001 sec)
```

8. Menampilkan data karyawan yang posisinya Manajer atau Supervisor.

```
MariaDB [db_usaha]> select * from staf where posisi = 'Manager' || posisi = 'Supervisor';
+-----+-----+-----+-----+-----+
| nip | nama | posisi | tgl_masuk | gaji |
+-----+-----+-----+-----+-----+
| M01 | Budi | Manager | 1996-01-01 | 10000000 |
| S01 | Sari | Supervisor | 2000-02-05 | 7500000 |
+-----+-----+-----+-----+-----+
2 rows in set (0.001 sec)
```

9. Menampilkan data karyawan yang posisinya Asisten dan masa kerja diatas atau sama dengan 8 tahun.

```
MariaDB [db_usaha]> select nip, nama, posisi, tgl_masuk, year(now())-year(tgl_masuk) as masa_kerja , gaji from staf where posisi='Asisten' and year(now())-year(tgl_masuk) >= 8;
+-----+-----+-----+-----+-----+
| nip | nama | posisi | tgl_masuk | masa_kerja | gaji |
+-----+-----+-----+-----+-----+
| A01 | Wahyu | Asisten | 2014-08-10 | 8 | 5000000 |
+-----+-----+-----+-----+-----+
1 row in set (0.008 sec)
```

10. Menampilkan data karyawan yang gajinya bukan 10.000.000.

```
MariaDB [db_usaha]> select * from staf where gaji != 10000000;
+-----+-----+-----+-----+-----+
| nip | nama | posisi | tgl_masuk | gaji |
+-----+-----+-----+-----+-----+
| A01 | Wahyu | Asisten | 2014-08-10 | 5000000 |
| S01 | Sari | Supervisor | 2000-02-05 | 7500000 |
+-----+-----+-----+-----+-----+
2 rows in set (0.001 sec)
```