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Penugasan Materi-02

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         |
| pwl_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 * 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, year(now())-year(tgl_masuk) as masa_kerja, gaji from staf where year(now())-year(tgl_masuk)>=8;
+-----+-------+------------+------------+----------+
| nip | nama  | posisi     | masa_kerja | gaji     |
+-----+-------+------------+------------+----------+
| A01 | Wahyu | Asisten    |          8 |  5000000 |
| M01 | Budi  | Manager    |         26 | 10000000 |
| S01 | Sari  | Supervisor |         22 |  7500000 |
+-----+-------+------------+------------+----------+
3 rows in set (0.001 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)
```