Nama : Yohanes Dimas Pratama

NIM : A11.2021.13254

Kelompok : A11.43UG2

Tugas Pertemuan 6

- DML dengan Operator -

mysql -u root

```
Setting environment for using XAMPP for Windows.
LENOVO@DIMAS c:\xampp
# mysql -u root
Welcome to the MariaDB monitor.  Commands end with ; or \g.
Your MariaDB connection id is 8
Server version: 10.4.24-MariaDB mariadb.org binary distribution

Copyright (c) 2000, 2018, Oracle, MariaDB Corporation Ab and others.

Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.
```

use db_usaha2;

```
MariaDB [(none)]> use db_usaha2;
Database changed
```

A. Menampilkan data staf dengan range gaji dari 4.000.000 - 7.000.000.
select * from staf where gaji between 4000000 and 7000000;

nip	nama	jenis_kelamin	posisi	tgl_masuk	gaji	id_cabang
A002	Parwoto	L	Asisten	2017-02-01	4000000	B002
A003	Bagus	L	Asisten	2015-01-01	4250000	B003
A004	Leli	P	Asisten	2016-06-01	4000000	B002
S001	Siti	P	Supervisor	2007-10-10	6500000	B001
S002	Fatimah	P	Supervisor	2008-09-02	6000000	B002
S003	Haryati	P	Supervisor	2009-11-11	6400000	B003

6 rows in set (0.001 sec)

B. Menampilkan data staf diluar range gaji 4.000.000 - 7.000.000.
select * from staf where gaji not between 4000000 and 7000000;

nip	nama	jenis_kelamin	posisi	tgl_masuk	gaji	id_cabang
A001	Dani	L	Asisten	2016-01-10	3800000	B001
M001	Mita	P	Manager	1998-10-01	9000000	B001
M002	Robi	L	Manager	2000-05-05	8200000	B002
M003	Nanda	L	Manager	2002-04-10	8500000	B003

4 rows in set (0.001 sec)

C. Menampilkan data staf dengan range tunjangan dari 500.000 – 2.000.000.

select nip, nama, jenis_kelamin, posisi, tgl_masuk, gaji, gaji*0.1 as tunjangan from staf where gaji*0.1 between 500000 and 2000000;

nip	nama	jenis_kelamin	posisi	tgl_masuk	gaji	tunjangan
M001	Mita	P	Manager	1998-10-01	9000000	900000.0
M002	Robi	L	Manager	2000-05-05	8200000	820000.0
M003	Nanda	L	Manager	2002-04-10	8500000	850000.0
S001	Siti	P	Supervisor	2007-10-10	6500000	650000.0
S002	Fatimah	P	Supervisor	2008-09-02	6000000	600000.0
S003	Haryati	P	Supervisor	2009-11-11	6400000	640000.0

6 rows in set (0.001 sec)

D. Menampilkan masa kerja staf dengan range masa kerja dari 5 - 20 tahun.

select nip, nama, jenis_kelamin, posisi, tgl_masuk, gaji, timestampdiff(year,tgl_masuk,now()) as masa_kerja from staf where timestampdiff(year,tgl_masuk,now()) between 5 and 20;

nip	nama	jenis_kelamin	posisi	tgl_masuk	gaji	masa_kerja
A001	Dani	L	Asisten	2016-01-10	3800000	6
A002	Parwoto	L	Asisten	2017-02-01	4000000	5
A003	Bagus	L	Asisten	2015-01-01	4250000	7
A004	Leli	P	Asisten	2016-06-01	4000000	6
M003	Nanda	L	Manager	2002-04-10	8500000	20
S001	Siti	P	Supervisor	2007-10-10	6500000	15
S002	Fatimah	P	Supervisor	2008-09-02	6000000	14
S003	Haryati	P	Supervisor	2009-11-11	6400000	12

8 rows in set (0.010 sec)

E. Menampilkan nama staf dengan huruf belakang ‘i’.

select * from staf where nama like '%i';

nip	nama	jenis_kelamin	posisi	tgl_masuk	gaji	id_cabang
A001	Dani	L	Asisten	2016-01-10	3800000	B001
A004	Leli	P	Asisten	2016-06-01	4000000	B002
M002	Robi	L	Manager	2000-05-05	8200000	B002
S001	Siti	P	Supervisor	2007-10-10	6500000	B001
S003	Haryati	P	Supervisor	2009-11-11	6400000	B003

5 rows in set (0.001 sec)

F. Menampilkan nama staf selain huruf belakang ‘i’.

select * from staf where nama not like '%i';

nip	nama	jenis_kelamin	posisi	tgl_masuk	gaji	id_cabang
A002	Parwoto	L	Asisten	2017-02-01	4000000	B002
A003	Bagus	L	Asisten	2015-01-01	4250000	B003
M001	Mita	P	Manager	1998-10-01	9000000	B001
M003	Nanda	L	Manager	2002-04-10	8500000	B003
S002	Fatimah	P	Supervisor	2008-09-02	6000000	B002

5 rows in set (0.019 sec)

G. Menampilkan nip staf yang terdiri dari 4 karakter dan diawali dengan huruf ‘s’.

```
select * from staf where nip like 's___';
```

```
MariaDB [db_usaha2]> select * from staf where nip like 's___';
+------+---------+---------------+------------+------------+---------+-----------+
| nip  | nama    | jenis_kelamin | posisi     | tgl_masuk  | gaji    | id_cabang |
+------+---------+---------------+------------+------------+---------+-----------+
| S001 | Siti    | P             | Supervisor | 2007-10-10 | 6500000 | B001      |
| S002 | Fatimah | P             | Supervisor | 2008-09-02 | 6000000 | B002      |
| S003 | Haryati | P             | Supervisor | 2009-11-11 | 6400000 | B003      |
+------+---------+---------------+------------+------------+---------+-----------+
3 rows in set (0.009 sec)
```

H. Menampilkan posisi staf yang terdapat kata ‘is’.

```
select * from staf where posisi like '%is%';
```

```
+------+---------+---------------+------------+------------+---------+-----------+
| nip  | nama    | jenis_kelamin | posisi     | tgl_masuk  | gaji    | id_cabang |
+------+---------+---------------+------------+------------+---------+-----------+
| A001 | Dani    | L             | Asisten    | 2016-01-10 | 3800000 | B001      |
| A002 | Parwoto | L             | Asisten    | 2017-02-01 | 4000000 | B002      |
| A003 | Bagus   | L             | Asisten    | 2015-01-01 | 4250000 | B003      |
| A004 | Leli    | P             | Asisten    | 2016-06-01 | 4000000 | B002      |
| S001 | Siti    | P             | Supervisor | 2007-10-10 | 6500000 | B001      |
| S002 | Fatimah | P             | Supervisor | 2008-09-02 | 6000000 | B002      |
| S003 | Haryati | P             | Supervisor | 2009-11-11 | 6400000 | B003      |
+------+---------+---------------+------------+------------+---------+-----------+
7 rows in set (0.001 sec)
```

I. Melakukan uji keanggotaan dengan posisi staf Manajer atau Supervisor.

```
select * from staf where posisi in('Manager','Supervisor');
```

```
+------+---------+---------------+------------+------------+---------+-----------+
| nip  | nama    | jenis_kelamin | posisi     | tgl_masuk  | gaji    | id_cabang |
+------+---------+---------------+------------+------------+---------+-----------+
| M001 | Mita    | P             | Manager    | 1998-10-01 | 9000000 | B001      |
| M002 | Robi    | L             | Manager    | 2000-05-05 | 8200000 | B002      |
| M003 | Nanda   | L             | Manager    | 2002-04-10 | 8500000 | B003      |
| S001 | Siti    | P             | Supervisor | 2007-10-10 | 6500000 | B001      |
| S002 | Fatimah | P             | Supervisor | 2008-09-02 | 6000000 | B002      |
| S003 | Haryati | P             | Supervisor | 2009-11-11 | 6400000 | B003      |
+------+---------+---------------+------------+------------+---------+-----------+
6 rows in set (0.001 sec)
```

J. Melakukan uji keanggotaan dengan posisi selain staf Manajer atau Supervisor.

```
select * from staf where posisi not in('Manager','Supervisor');
```

```
+------+---------+---------------+---------+------------+---------+-----------+
| nip  | nama    | jenis_kelamin | posisi  | tgl_masuk  | gaji    | id_cabang |
+------+---------+---------------+---------+------------+---------+-----------+
| A001 | Dani    | L             | Asisten | 2016-01-10 | 3800000 | B001      |
| A002 | Parwoto | L             | Asisten | 2017-02-01 | 4000000 | B002      |
| A003 | Bagus   | L             | Asisten | 2015-01-01 | 4250000 | B003      |
| A004 | Leli    | P             | Asisten | 2016-06-01 | 4000000 | B002      |
+------+---------+---------------+---------+------------+---------+-----------+
4 rows in set (0.001 sec)
```

K. Menampilkan semua data staf berdasarkan urutan ascending dari id_cabang.

select * from staf order by id_cabang;

nip	nama	jenis_kelamin	posisi	tgl_masuk	gaji	id_cabang
A001	Dani	L	Asisten	2016-01-10	3800000	B001
S001	Siti	P	Supervisor	2007-10-10	6500000	B001
M001	Mita	P	Manager	1998-10-01	9000000	B001
S002	Fatimah	P	Supervisor	2008-09-02	6000000	B002
M002	Robi	L	Manager	2000-05-05	8200000	B002
A004	Leli	P	Asisten	2016-06-01	4000000	B002
A002	Parwoto	L	Asisten	2017-02-01	4000000	B002
M003	Nanda	L	Manager	2002-04-10	8500000	B003
A003	Bagus	L	Asisten	2015-01-01	4250000	B003
S003	Haryati	P	Supervisor	2009-11-11	6400000	B003

10 rows in set (0.001 sec)

L. Menampilkan semua data staf berdasarkan urutan tanggal masuk secara descending.
select * from staf order by tgl_masuk desc;

nip	nama	jenis_kelamin	posisi	tgl_masuk	gaji	id_cabang
A002	Parwoto	L	Asisten	2017-02-01	4000000	B002
A004	Leli	P	Asisten	2016-06-01	4000000	B002
A001	Dani	L	Asisten	2016-01-10	3800000	B001
A003	Bagus	L	Asisten	2015-01-01	4250000	B003
S003	Haryati	P	Supervisor	2009-11-11	6400000	B003
S002	Fatimah	P	Supervisor	2008-09-02	6000000	B002
S001	Siti	P	Supervisor	2007-10-10	6500000	B001
M003	Nanda	L	Manager	2002-04-10	8500000	B003
M002	Robi	L	Manager	2000-05-05	8200000	B002
M001	Mita	P	Manager	1998-10-01	9000000	B001

10 rows in set (0.001 sec)

M. Menampilkan semua data staf berdasarkan urutan dari id_cabang dan gaji.
select * from staf order by id_cabang,gaji;

nip	nama	jenis_kelamin	posisi	tgl_masuk	gaji	id_cabang
A001	Dani	L	Asisten	2016-01-10	3800000	B001
S001	Siti	P	Supervisor	2007-10-10	6500000	B001
M001	Mita	P	Manager	1998-10-01	9000000	B001
A002	Parwoto	L	Asisten	2017-02-01	4000000	B002
A004	Leli	P	Asisten	2016-06-01	4000000	B002
S002	Fatimah	P	Supervisor	2008-09-02	6000000	B002
M002	Robi	L	Manager	2000-05-05	8200000	B002
A003	Bagus	L	Asisten	2015-01-01	4250000	B003
S003	Haryati	P	Supervisor	2009-11-11	6400000	B003
M003	Nanda	L	Manager	2002-04-10	8500000	B003

N. Menampilkan masa kerja staf, kemudian menampilkan nip, nama, tgl_masuk dan masa kerja berdasarkan urutan ascending masa kerja.
select nip, nama, tgl_masuk, timestampdiff(year,tgl_masuk,now()) as masa_kerja from staf order by timestampdiff(year,tgl_masuk,now());

nip	nama	tgl_masuk	masa_kerja
A002	Parwoto	2017-02-01	5
A001	Dani	2016-01-10	6
A004	Leli	2016-06-01	6
A003	Bagus	2015-01-01	7
S003	Haryati	2009-11-11	12
S002	Fatimah	2008-09-02	14
S001	Siti	2007-10-10	15
M003	Nanda	2002-04-10	20
M002	Robi	2000-05-05	22
M001	Mita	1998-10-01	24

10 rows in set (0.001 sec)

O. Melakukan pengelompokan pada posisi staf. Kemudian menampilkan jumlah staf berdasarkan posisi tersebut.

```
select posisi, count(posisi) as jumlah_posisi from staf group by posisi;
```

posisi	jumlah_posisi
Asisten	4
Manager	3
Supervisor	3

3 rows in set (0.001 sec)