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Tugas : tugas3 mysql

masuk ke ruang DB dbpegawai melalui CMD

```
C:\xampp\mysql\bin>
C:\xampp\mysql\bin>mysql -u root dbpegawai
Welcome to the MariaDB monitor.  Commands end with ; or \g.
Your MariaDB connection id is 73
Server version: 10.1.19-MariaDB mariadb.org binary distribution

Copyright (c) 2000, 2016, Oracle, MariaDB Corporation Ab and others.

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

MariaDB [dbpegawai]>
```

tampilkan tabel yang ada di dbpegawai

```
MariaDB [dbpegawai]> Show tables;
+-----+
| Tables_in_dbpegawai |
+-----+
| divisi                |
| pegawai               |
+-----+
2 rows in set (0.03 sec)
```

tampilkan deskripsi tabel yang ada di dbpegawai

```
MariaDB [dbpegawai]> DESC divisi;
+-----+-----+-----+-----+-----+-----+
| Field | Type          | Null | Key | Default | Extra           |
+-----+-----+-----+-----+-----+-----+
| id     | int(11)       | NO   | PRI | NULL    | auto_increment |
| nama   | varchar(30)   | NO   | UNI | NULL    |                 |
+-----+-----+-----+-----+-----+-----+
2 rows in set (0.11 sec)

MariaDB [dbpegawai]> DESC pegawai;
+-----+-----+-----+-----+-----+-----+
| Field      | Type          | Null | Key | Default | Extra           |
+-----+-----+-----+-----+-----+-----+
| id         | int(11)       | NO   | PRI | NULL    | auto_increment |
| nip        | char(5)       | NO   | UNI | NULL    |                 |
| nama       | varchar(30)   | NO   |     | NULL    |                 |
| gender     | enum('L','P') | NO   |     | NULL    |                 |
| tmp_lahir  | varchar(30)   | NO   |     | NULL    |                 |
| tgl_lahir  | date          | NO   |     | NULL    |                 |
| iddivisi   | int(11)       | NO   |     | NULL    |                 |
+-----+-----+-----+-----+-----+-----+
7 rows in set (0.05 sec)
```

gunakan alter tabel untuk menambahkan kolom baru berat_badan, lalu input berat badan semua pegawai secara acak

```
MariaDB [dbpegawai]> ALTER TABLE pegawai
-> ADD COLUMN IF NOT EXISTS
-> berat_badan varchar(30) AFTER gender;
Query OK, 0 rows affected (0.13 sec)
Records: 0 Duplicates: 0 Warnings: 0
```

```
MariaDB [dbpegawai]> DESC pegawai;
```

Field	Type	Null	Key	Default	Extra
id	int(11)	NO	PRI	NULL	auto_increment
nip	char(5)	NO	UNI	NULL	
nama	varchar(30)	NO		NULL	
gender	enum('L','P')	NO		NULL	
berat_badan	varchar(30)	YES		NULL	
tmp_lahir	varchar(30)	NO		NULL	
tgl_lahir	date	NO		NULL	
iddivisi	int(11)	NO		NULL	

8 rows in set (0.01 sec)

```
MariaDB [dbpegawai]> UPDATE `pegawai` SET `berat_badan`='gemuk' WHERE gender = 'L';
Query OK, 7 rows affected (0.01 sec)
Rows matched: 8 Changed: 7 Warnings: 0
```

```
MariaDB [dbpegawai]> UPDATE `pegawai` SET `berat_badan`='kurus' WHERE gender = 'P';
Query OK, 11 rows affected (0.02 sec)
Rows matched: 11 Changed: 11 Warnings: 0
```

```
MariaDB [dbpegawai]> SELECT * FROM pegawai;
```

id	nip	nama	gender	berat_badan	tmp_lahir	tgl_lahir	iddivisi
1	085	Ika	P	kurus	Kediri	0000-00-00	1
2	084	Laurent	L	gemuk	Kediri	2022-06-01	1
3	205	Devi	P	kurus	Jogja	2022-06-02	1
4	255	Yoga	L	gemuk	Jogja	2022-06-01	2
5	105	Yogi	P	kurus	Blitar	2022-06-01	3
6	155	Evi	P	kurus	Blitar	2022-06-02	2
7	165	Eril	L	gemuk	Ngawi	2022-06-02	2
8	073	Devita	P	kurus	Kediri	2022-06-02	2
9	074	Erik	L	gemuk	Kediri	2022-06-02	2
10	075	Anggun	P	kurus	Kediri	2022-06-02	2
11	076	Erik	L	gemuk	Kediri	2022-06-02	3
12	078	Erika	P	kurus	Kediri	2022-06-02	3
13	079	Salim	L	gemuk	Kediri	2022-06-02	3
14	061	Rika	P	kurus	Kediri	2022-06-02	3
15	062	Faisal	L	gemuk	Kediri	2022-06-02	3
16	063	Rina	P	kurus	Kediri	2022-06-02	4
18	065	Ina	P	kurus	Kediri	2022-06-02	4
20	067	Isyana	P	kurus	Kediri	2022-06-02	4

18 rows in set (0.00 sec)

tampilkan kolom2 tertentu di tabel staff (bebas, contoh: nip,nama,gender,umur)

```
MariaDB [dbpegawai]> SELECT nip, nama, gender, berat_badan FROM pegawai;
```

nip	nama	gender	berat_badan
085	Ika	P	kurus
084	Laurent	L	gemuk
205	Devi	P	kurus
255	Yoga	L	gemuk
105	Yoga	P	kurus
155	Evi	P	kurus
165	Eril	L	gemuk
073	Devita	P	kurus
074	Erik	L	gemuk
075	Anggun	P	kurus
076	Erik	L	gemuk
078	Erika	P	kurus
079	Salim	L	gemuk
061	Rika	P	kurus
062	Faisal	L	gemuk
063	Rina	P	kurus
065	Ina	P	kurus
067	Isyana	P	kurus
		L	gemuk

```
19 rows in set (0.00 sec)
```

tampilkan baris2 tertentu di tabel staff (bebas, contoh: menampilkan yang gendernya laki2 saja)

```
MariaDB [dbpegawai]> SELECT nip, nama, gender FROM pegawai WHERE gender = 'P';
```

nip	nama	gender
085	Ika	P
205	Devi	P
105	Yogi	P
155	Evi	P
073	Devita	P
075	Anggun	P
078	Erika	P
061	Rika	P
063	Rina	P
065	Ina	P
067	Isyana	P

```
11 rows in set (0.00 sec)
```

tampilkan kolom2 dan baris2 tertentu di tabel staff (bebas)

```
MariaDB [dbpegawai]> SELECT nama, gender, berat_badan, tmp_lahir FROM pegawai WHERE tmp_lahir = 'Jogja';
```

nama	gender	berat_badan	tmp_lahir
Devi	P	kurus	Jogja
Yoga	L	gemuk	Jogja

```
2 rows in set (0.00 sec)
```

tampilkan data pegawai yang umurnya di atas 30 tahun dan lahirnya di kota jakarta

```
MariaDB [dbpegawai]> SELECT id,nama, nip, tgl_lahir, tmp_lahir, (YEAR(CURDATE())-YEAR(tgl_lahir)) AS Umur FROM pegawai WHERE (YEAR(CURDATE())-YEAR(tgl_lahir)) > 30 and tmp_lahir = 'Jogja';
```

id	nama	nip	tgl_lahir	tmp_lahir	Umur
3	Devi	205	1988-06-02	Jogja	34
7	Eril	165	1977-06-02	jogja	45
11	Erik	076	1989-05-02	jogja	33

```
3 rows in set (0.00 sec)
```

tampilkan data pegawai dengan klausa key (nip)

```
MariaDB [dbpegawai]> SELECT * FROM pegawai WHERE nip='205';
```

id	nip	nama	gender	berat_badan	tmp_lahir	tgl_lahir	iddivisi
3	205	Devi	P	kurus	Jogja	1988-06-02	1

```
1 row in set (0.00 sec)
```

tampilkan data pegawai dengan klausa non key (gender)

```
MariaDB [dbpegawai]> SELECT * FROM pegawai WHERE gender='L';
```

id	nip	nama	gender	berat_badan	tmp_lahir	tgl_lahir	iddivisi
2	084	Laurent	L	gemuk	Kediri	1999-06-01	1
4	255	Yoga	L	gemuk	Jogja	1999-06-01	2
7	165	Eril	L	gemuk	jogja	1977-06-02	2
9	074	Erik	L	gemuk	Kediri	2001-06-02	2
11	076	Erik	L	gemuk	jogja	1989-05-02	3
13	079	Salim	L	gemuk	Kediri	1988-06-29	3
15	062	Faisal	L	gemuk	Kediri	1989-06-19	3

```
7 rows in set (0.00 sec)
```

tampilkan data pegawai dengan klausa in (menyebutkan beberapa nip)

```
MariaDB [dbpegawai]> SELECT * FROM pegawai WHERE nip IN('084','074','062');
```

id	nip	nama	gender	berat_badan	tmp_lahir	tgl_lahir	iddivisi
15	062	Faisal	L	gemuk	Kediri	1989-06-19	3
9	074	Erik	L	gemuk	Kediri	2001-06-02	2
2	084	Laurent	L	gemuk	Kediri	1999-06-01	1

```
3 rows in set (0.01 sec)
```

tampilkan data pegawai dengan klausa not in (menyebutkan beberapa tempat lahir)

```
MariaDB [dbpegawai]> SELECT * FROM pegawai WHERE tgl_lahir NOT IN('1989-06-19','2001-06-02','1999-06-01');
+----+-----+-----+-----+-----+-----+-----+-----+
| id | nip  | nama  | gender | berat_badan | tmp_lahir | tgl_lahir | iddivisi |
+----+-----+-----+-----+-----+-----+-----+-----+
| 1  | 085  | Ika   | P      | kurus       | Kediri   | 2000-01-26 | 1        |
| 3  | 205  | Devi  | P      | kurus       | Jogja    | 1988-06-02 | 1        |
| 5  | 105  | Yogi  | P      | kurus       | Blitar   | 2001-06-01 | 3        |
| 6  | 155  | Evi   | P      | kurus       | Blitar   | 1986-06-02 | 2        |
| 7  | 165  | Eril  | L      | gemuk       | jogja    | 1977-06-02 | 2        |
| 8  | 073  | Devita | P      | kurus       | Kediri   | 2000-06-02 | 2        |
| 10 | 075  | Anggun | P      | kurus       | Kediri   | 1980-06-02 | 2        |
| 11 | 076  | Erik  | L      | gemuk       | jogja    | 1989-05-02 | 3        |
| 12 | 078  | Erika | P      | kurus       | Kediri   | 2002-08-02 | 3        |
| 13 | 079  | Salim | L      | gemuk       | Kediri   | 1988-06-29 | 3        |
| 14 | 061  | Rika  | P      | kurus       | Kediri   | 2000-06-06 | 3        |
| 16 | 063  | Rina  | P      | kurus       | Kediri   | 2001-01-02 | 4        |
| 18 | 065  | Ina   | P      | kurus       | Kediri   | 1999-11-27 | 4        |
| 20 | 067  | Isyana | P      | kurus       | Kediri   | 1999-04-02 | 4        |
+----+-----+-----+-----+-----+-----+-----+-----+
14 rows in set (0.00 sec)
```

tampilkan data pegawai berdasarkan nama secara ascending

```
MariaDB [dbpegawai]> SELECT * FROM pegawai ORDER BY nama ASC;
+----+-----+-----+-----+-----+-----+-----+-----+
| id | nip  | nama  | gender | berat_badan | tmp_lahir | tgl_lahir | iddivisi |
+----+-----+-----+-----+-----+-----+-----+-----+
| 10 | 075  | Anggun | P      | kurus       | Kediri   | 1980-06-02 | 2        |
| 3  | 205  | Devi  | P      | kurus       | Jogja    | 1988-06-02 | 1        |
| 8  | 073  | Devita | P      | kurus       | Kediri   | 2000-06-02 | 2        |
| 11 | 076  | Erik  | L      | gemuk       | jogja    | 1989-05-02 | 3        |
| 9  | 074  | Erik  | L      | gemuk       | Kediri   | 2001-06-02 | 2        |
| 12 | 078  | Erika | P      | kurus       | Kediri   | 2002-08-02 | 3        |
| 7  | 165  | Eril  | L      | gemuk       | jogja    | 1977-06-02 | 2        |
| 6  | 155  | Evi   | P      | kurus       | Blitar   | 1986-06-02 | 2        |
| 15 | 062  | Faisal | L      | gemuk       | Kediri   | 1989-06-19 | 3        |
| 1  | 085  | Ika   | P      | kurus       | Kediri   | 2000-01-26 | 1        |
| 18 | 065  | Ina   | P      | kurus       | Kediri   | 1999-11-27 | 4        |
| 20 | 067  | Isyana | P      | kurus       | Kediri   | 1999-04-02 | 4        |
| 2  | 084  | Laurent | L      | gemuk       | Kediri   | 1999-06-01 | 1        |
| 14 | 061  | Rika  | P      | kurus       | Kediri   | 2000-06-06 | 3        |
| 16 | 063  | Rina  | P      | kurus       | Kediri   | 2001-01-02 | 4        |
| 13 | 079  | Salim | L      | gemuk       | Kediri   | 1988-06-29 | 3        |
| 4  | 255  | Yoga  | L      | gemuk       | Jogja    | 1999-06-01 | 2        |
| 5  | 105  | Yogi  | P      | kurus       | Blitar   | 2001-06-01 | 3        |
+----+-----+-----+-----+-----+-----+-----+-----+
18 rows in set (0.02 sec)
```

tampilkan data pegawai dari yang berat badan paling gemuk ke paling kurus

```
MariaDB [dbpegawai]> SELECT * FROM pegawai ORDER BY berat_badan DESC;
```

id	nip	nama	gender	berat_badan	tmp_lahir	tgl_lahir	iddivisi
13	079	Salim	L	80	Kediri	1988-06-29	3
15	062	Faisal	L	75	Kediri	1989-06-19	3
8	073	Devita	P	75	Kediri	2000-06-02	2
16	063	Rina	P	72	Kediri	2001-01-02	4
14	061	Rika	P	70	Kediri	2000-06-06	3
9	074	Erik	L	69	Kediri	2001-06-02	2
6	155	Evi	P	65	Blitar	1986-06-02	2
7	165	Eril	L	55	Jogja	1977-06-02	2
10	075	Anggun	P	53	Kediri	1980-06-02	2
3	205	Devi	P	50	Jogja	1988-06-02	1
2	084	Laurent	L	50	Kediri	1999-06-01	1
11	076	Erik	L	45	Jogja	1989-05-02	3
1	085	Ika	P	45	Kediri	2000-01-26	1
18	065	Ina	P	44	Kediri	1999-11-27	4
12	078	Erika	P	43	Kediri	2002-08-02	3
5	105	Yogi	P	43	Blitar	2001-06-01	3
20	067	Isyana	P	35	Kediri	1999-04-02	4
4	255	Yoga	L	30	Jogja	1999-06-01	2

```
18 rows in set (0.00 sec)
```

tampilkan data 5 pegawai teratas gunakan klausa limit

```
MariaDB [dbpegawai]> SELECT * FROM pegawai LIMIT 5 ;
```

id	nip	nama	gender	berat_badan	tmp_lahir	tgl_lahir	iddivisi
1	085	Ika	P	45	Kediri	2000-01-26	1
2	084	Laurent	L	50	Kediri	1999-06-01	1
3	205	Devi	P	50	Jogja	1988-06-02	1
4	255	Yoga	L	30	Jogja	1999-06-01	2
5	105	Yogi	P	43	Blitar	2001-06-01	3

```
5 rows in set (0.00 sec)
```

tampilkan data 5 pegawai terbawah gunakan klausa limit offset

```
MariaDB [dbpegawai]> SELECT * FROM pegawai LIMIT 5 OFFSET 13 ;
```

id	nip	nama	gender	berat_badan	tmp_lahir	tgl_lahir	iddivisi
14	061	Rika	P	70	Kediri	2000-06-06	3
15	062	Faisal	L	75	Kediri	1989-06-19	3
16	063	Rina	P	72	Kediri	2001-01-02	4
18	065	Ina	P	44	Kediri	1999-11-27	4
20	067	Isyana	P	35	Kediri	1999-04-02	4

```
5 rows in set (0.01 sec)
```

tampilkan jumlah pegawai gunakan fungsi aggregat count

```
MariaDB [dbpegawai]> SELECT COUNT(*) AS jumlah_pegawai FROM pegawai;
+-----+
| jumlah_pegawai |
+-----+
|          18    |
+-----+
1 row in set (0.00 sec)
```

tampilkan nip,nama pegawai, umur yg paling tua gunakan fungsi aggregat max (kombinasi dengan sub query)

```
MariaDB [dbpegawai]> SELECT nip, nama, umur FROM pegawai WHERE umur = (SELECT MAX(umur) FROM pegawai);
+-----+-----+-----+
| nip | nama | umur |
+-----+-----+-----+
| 165 | Eril | 45    |
+-----+-----+-----+
1 row in set (0.00 sec)
```

tampilkan nip,nama pegawai, berat_badan yg paling kurus gunakan fungsi aggregat min (kombinasi dengan sub query)

```
MariaDB [dbpegawai]> SELECT nip, nama, berat_badan FROM pegawai WHERE berat_badan = (SELECT MIN(berat_badan) FROM pegawai);
+-----+-----+-----+
| nip | nama | berat_badan |
+-----+-----+-----+
| 255 | Yoga | 30           |
+-----+-----+-----+
1 row in set (0.00 sec)
```

tampilkan data rata2 umur pegawai gunakan fungsi aggregat avg

```
MariaDB [dbpegawai]> SELECT AVG(umur) FROM pegawai;
+-----+
| AVG(umur) |
+-----+
| 27.666666666666668 |
+-----+
1 row in set (0.00 sec)
```

tampilkan jumlah data pegawai yang laki2 gunakan fungsi aggregat count

```
MariaDB [dbpegawai]> SELECT COUNT(*) AS jumlah_laki2 FROM pegawai WHERE gender = 'L';
+-----+
| jumlah_laki2 |
+-----+
|          7    |
+-----+
1 row in set (0.00 sec)
```

tampilkan jumlah data pegawai yang perempuan gunakan fungsi aggregat count

```
MariaDB [dbpegawai]> SELECT COUNT(*) AS jumlah_wanita FROM pegawai WHERE gender = 'P';
```

jumlah_wanita
11

```
1 row in set (0.00 sec)
```

tampilkan total berat badan seluruh pegawai gunakan fungsi aggregat sum

```
MariaDB [dbpegawai]> SELECT SUM(berat_badan)AS Total_beratbadan FROM pegawai;
```

Total_beratbadan
999

```
1 row in set (0.00 sec)
```

tampilkan data jumlah pegawai berdasarkan gender, yg jumlah minimal 10 orang (gunakan group by dan having)

```
MariaDB [dbpegawai]> SELECT gender, COUNT(gender) AS jumlah_pegawai FROM pegawai GROUP BY gender Having count(gender) >= 10;
```

gender	jumlah_pegawai
P	11

```
1 row in set (0.00 sec)
```