

Tugas 3
Basis Data 1



Disusun Oleh :

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Kelas : **3A** SENIN BASIS DATA 1

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Tahun 2022

Soal

1. Buat tabel pegawai sebagai berikut:
2. Isi data table!
3. Tampilkan semua kolom di tabel!
4. Tampilkan kolom idpegawai, namabelakang dan gaji saja!
5. Tampilkan kolom idpegawai, namabelakang, gaji, tunjangan dan sebuah kolom baru yaitu tunjangan+gaji yang berisi jumlah tunjangan dan gaji!
6. Ubah tunjangan menjadi NULL untuk pegawai dengan idpegawai = E003. Kemudian lakukan kembali percobaan 5.
7. Seperti percobaan 5, tampilkan kolom idpegawai, namabelakang, gaji, tunjangan dan sebuah kolom baru (gunakan alias) yaitu total_pendapatan yang berisi jumlah tunjangan dan gaji!
8. Tambahkan record baru dengan value: E006,lincoln, burrows, linc@yahoo.com,085275384544, 2008-09-01, L0006, 1750000, NULL, ex, coml.
9. Untuk pegawai yang ber-id E004 dan E005 ubah idmanajernya menjadi al!
10. Sekarang tampilkan kolom idmanajer saja!
11. Dari percobaan 10, terdapat 3 idmanajer yang sama dengan total record 6, sekarang tampilkan
12. idmanajer tanpa duplikasi idmanajer sehingga akan tampil 4 record dengan idmanajer yang berbeda!
13. Tampilkan pegawai yang gajinya antara 1750000 - 1250000!
14. Tampilkan tabel pegawai yang terurut berdasarkan namabelakang (dari a ke z)!
15. Tampilkan tabel pegawai yang diurutkan berdasarkan nama depan dengan urutan terbalik (dari z ke a)!
16. Rubah nama users anda pada devaice laptop/computer anda menjadi nim anda!
17. Beri kesimpulan Anda!
18. Tulis semua perintah-perintah SQL percobaan di atas beserta outputnya!

Jawaban

1.

```
MariaDB [db_pegawai]> create table pegawai(idpegawai char(6) not null default '',
-> namadepan varchar(20),
-> namabelakang varchar(25) not null default '',
-> email varchar(25) not null default '',
-> telepon varchar(20),
-> tglkontrak date not null,
-> idjob varchar(10) not null default '',
-> gaji int(8),
-> tunjangan int(8),
-> idmanajer char(6),
-> iddepartemen char(4));
```

Query OK, 0 rows affected (0.036 sec)

```
MariaDB [db_pegawai]> desc pegawai
-> ;
```

Field	Type	Null	Key	Default	Extra
idpegawai	char(6)	NO			
namadepan	varchar(20)	YES		NULL	
namabelakang	varchar(25)	NO			
email	varchar(25)	NO			
telepon	varchar(20)	YES		NULL	
tglkontrak	date	NO		NULL	
idjob	varchar(10)	NO			
gaji	int(8)	YES		NULL	
tunjangan	int(8)	YES		NULL	
idmanajer	char(6)	YES		NULL	
iddepartemen	char(4)	YES		NULL	

11 rows in set (0.045 sec)

2.

```
MariaDB [db_pegawai]> insert into pegawai values('E001','saddam','pattanang','fay@yahoo.com','001245','2002-08-22','L0001',410000,210000,'al','com1'),
-> ('E002','joko','tinggikir','yeovil@yahoo.com','04522612','2002-04-22','L0002',1100000,210000,'ss','com1'),
-> ('E003','ajid','neh','aneh@yahoo.com','92711192','2002-05-21','L0003',3100000,220000,'ww','com1'),
-> ('E004','zora','ideale','zora@yahoo.com','1922811','1998-09-26','L0004',1200000,110000,'qq','com1'),
-> ('E005','yami','sukehiro','yami@yahoo.com','6288124','1579-02-16','L0005',200000,0,'dc','com1');
```

Query OK, 5 rows affected (0.072 sec)

Records: 5 Duplicates: 0 Warnings: 0

3.

```
MariaDB [db_pegawai]> select *from pegawai;
```

idpegawai	namadepan	namabelakang	email	telepon	tglkontrak	idjob	gaji	tunjangan	idmanajer	iddepartemen
E001	saddam	pattanang	fay@yahoo.com	001245	2002-08-22	L0001	410000	210000	al	com1
E002	joko	tinggikir	yeovil@yahoo.com	04522612	2002-04-22	L0002	1100000	210000	ss	com1
E003	ajid	neh	aneh@yahoo.com	92711192	2002-05-21	L0003	3100000	220000	ww	com1
E004	zora	ideale	zora@yahoo.com	1922811	1998-09-26	L0004	1200000	110000	qq	com1
E005	yami	sukehiro	yami@yahoo.com	6288124	1579-02-16	L0005	200000	0	dc	com1

5 rows in set (0.001 sec)

4. MariaDB [db_pegawai]> select idpegawai,namabelakang,gaji from pegawai;

```
+-----+-----+-----+
| idpegawai | namabelakang | gaji   |
+-----+-----+-----+
| E001      | pattanang    | 4100000 |
| E002      | tinggikir    | 1100000 |
| E003      | neh          | 3100000 |
| E004      | ideale       | 1200000 |
| E005      | sukehiro     | 200000  |
+-----+-----+-----+
5 rows in set (0.001 sec)
```

5. MariaDB [db_pegawai]> select idpegawai,namabelakang,gaji,tunjangan,tunjangan+gaji from pegawai;

```
+-----+-----+-----+-----+-----+
| idpegawai | namabelakang | gaji   | tunjangan | tunjangan+gaji |
+-----+-----+-----+-----+-----+
| E001      | pattanang    | 4100000 | 210000   | 4310000   |
| E002      | tinggikir    | 1100000 | 210000   | 1310000   |
| E003      | neh          | 3100000 | 220000   | 3320000   |
| E004      | ideale       | 1200000 | 110000   | 1310000   |
| E005      | sukehiro     | 200000  | 0         | 200000    |
+-----+-----+-----+-----+-----+
5 rows in set (0.001 sec)
```

6. MariaDB [db_pegawai]> update pegawai set tunjangan=null where idpegawai='E003';
Query OK, 1 row affected (0.008 sec)
Rows matched: 1 Changed: 1 Warnings: 0

```
MariaDB [db_pegawai]> select idpegawai,namabelakang,gaji,tunjangan,tunjangan+gaji from pegawai;
+-----+-----+-----+-----+-----+
| idpegawai | namabelakang | gaji   | tunjangan | tunjangan+gaji |
+-----+-----+-----+-----+-----+
| E001      | pattanang    | 4100000 | 210000   | 4310000   |
| E002      | tinggikir    | 1100000 | 210000   | 1310000   |
| E003      | neh          | 3100000 | NULL     | NULL       |
| E004      | ideale       | 1200000 | 110000   | 1310000   |
| E005      | sukehiro     | 200000  | 0         | 200000    |
+-----+-----+-----+-----+-----+
5 rows in set (0.001 sec)
```

7. MariaDB [db_pegawai]> select idpegawai,namabelakang,gaji,tunjangan,tunjangan+gaji as total_pendapatan from pegawai;

```
+-----+-----+-----+-----+-----+
| idpegawai | namabelakang | gaji   | tunjangan | total_pendapatan |
+-----+-----+-----+-----+-----+
| E001      | pattanang    | 4100000 | 210000   | 4310000   |
| E002      | tinggikir    | 1100000 | 210000   | 1310000   |
| E003      | neh          | 3100000 | NULL     | NULL       |
| E004      | ideale       | 1200000 | 110000   | 1310000   |
| E005      | sukehiro     | 200000  | 0         | 200000    |
+-----+-----+-----+-----+-----+
5 rows in set (0.001 sec)
```

8. MariaDB [db_pegawai]> insert into pegawai values('E006','lincoln','burrows','linch@yahoo.com','085275384544','2008-09-01','L0006',1750000,null,'ex','com1');
Query OK, 1 row affected (0.007 sec)

9. MariaDB [db_pegawai]> update pegawai set idmanajer='al' where idpegawai='E004' or idpegawai='E005';
Query OK, 2 rows affected (0.006 sec)
Rows matched: 2 Changed: 2 Warnings: 0

10. MariaDB [db_pegawai]> select idmanajer from pegawai;

```
+-----+  
| idmanajer |  
+-----+  
| al        |  
| ss        |  
| ww        |  
| al        |  
| al        |  
| ex        |  
+-----+
```

6 rows in set (0.000 sec)

11. MariaDB [db_pegawai]> select *from pegawai where idmanajer='al';

```
+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+  
| idpegawai | namadepan | namabelakang | email          | telepon | tglkontrak | idjob | gaji   | tunjangan | idmanajer | iddepartemen |  
+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+  
| E001      | saddam   | pattanang    | fay@yahoo.com  | 001245  | 2002-08-22 | L0001 | 4100000 | 210000   | al        | com1          |  
| E004      | zora     | ideale       | zora@yahoo.com | 1922811 | 1998-09-26 | L0004 | 1200000 | 110000   | al        | com1          |  
| E005      | yami     | sukehiro     | yami@yahoo.com | 6288124 | 1579-02-16 | L0005 | 200000  | 0         | al        | com1          |  
+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
```

3 rows in set (0.001 sec)

12. MariaDB [db_pegawai]> select distinct idmanajer from pegawai;

```
+-----+  
| idmanajer |  
+-----+  
| al        |  
| ss        |  
| ww        |  
| ex        |  
+-----+
```

4 rows in set (0.001 sec)

13. MariaDB [db_pegawai]> select * from pegawai where gaji=1250000 and gaji<=1750000;

idpegawai	namadepan	namabelakang	email	telepon	tglkontrak	idjob	gaji	tunjangan	idmanajer	iddepartemen
E006	lincoln	burrows	linch@yahoo.com	085275384544	2008-09-01	L0006	1750000	NULL	ex	com1

1 row in set (0.001 sec)

14. MariaDB [db_pegawai]> select * from pegawai order by namabelakang desc;

idpegawai	namadepan	namabelakang	email	telepon	tglkontrak	idjob	gaji	tunjangan	idmanajer	iddepartemen
E002	joko	tinggikir	yeovil@yahoo.com	04522612	2002-04-22	L0002	1100000	210000	ss	com1
E005	yami	sukehiro	yami@yahoo.com	6288124	1579-02-16	L0005	200000	0	al	com1
E001	saddam	pattanang	fay@yahoo.com	001245	2002-08-22	L0001	4100000	210000	al	com1
E003	ajid	neh	aneh@yahoo.com	92711192	2002-05-21	L0003	3100000	NULL	ww	com1
E004	zora	ideale	zora@yahoo.com	1922811	1998-09-26	L0004	1200000	110000	al	com1
E006	lincoln	burrows	linch@yahoo.com	085275384544	2008-09-01	L0006	1750000	NULL	ex	com1

6 rows in set (0.001 sec)

15. MariaDB [db_pegawai]> select * from pegawai order by namadepan asc;

idpegawai	namadepan	namabelakang	email	telepon	tglkontrak	idjob	gaji	tunjangan	idmanajer	iddepartemen
E003	ajid	neh	aneh@yahoo.com	92711192	2002-05-21	L0003	3100000	NULL	ww	com1
E002	joko	tinggikir	yeovil@yahoo.com	04522612	2002-04-22	L0002	1100000	210000	ss	com1
E006	lincoln	burrows	linch@yahoo.com	085275384544	2008-09-01	L0006	1750000	NULL	ex	com1
E001	saddam	pattanang	fay@yahoo.com	001245	2002-08-22	L0001	4100000	210000	al	com1
E005	yami	sukehiro	yami@yahoo.com	6288124	1579-02-16	L0005	200000	0	al	com1
E004	zora	ideale	zora@yahoo.com	1922811	1998-09-26	L0004	1200000	110000	al	com1

6 rows in set (0.001 sec)

16. C:\> cmd.exe - mysql -u root

C:\202155202055>cd c:/xampp/mysql/bin

c:\xampp\mysql\bin>mysql -u root

Welcome to the MariaDB monitor. Commands end with ; or \g.

Your MariaDB connection id is 8

Server version: 10.4.25-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.

MariaDB [(none)]> create database db_pegawai

-> ;

Query OK, 1 row affected (0.001 sec)

MariaDB [(none)]> use db_pegawai

Database changed

17. Jadi kesimpulan dari tugas di atas adalah dengan menggunakan query-query di atas kita bisa membuat tabel mengisi data ke dalam tabel dan memanipulasi data dalam tabel yang telah kita buat di atas.