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Remidial UTS Praktikum Basis Data II

1. Buatlah sebuah basis data dengan nama UTS_(NIM anda)

Jawab:

```
MariaDB [(none)]> create database UTS_09031382126161;  
Query OK, 1 row affected (0.002 sec)  
  
MariaDB [(none)]> use UTS_09031382126161;  
Database changed  
MariaDB [UTS_09031382126161]> |
```

2. Pada basis data yang telah anda buat sebelumnya, buatlah tabel-tabel berikut:

Pasien

<u>Field</u>	<u>Tipe Data</u>	<u>Keterangan</u>
<u>IDPasien</u>	Varchar(6)	PK
<u>Nama</u>	Varchar(30)	
<u>Alamat</u>	Text	
<u>Telepon</u>	Varchar(20)	

Poli

<u>Field</u>	<u>Tipe Data</u>	<u>Keterangan</u>
<u>IDPoli</u>	Varchar(2)	PK
<u>NamaPoli</u>	Varchar(30)	

Registrasi

<u>Field</u>	<u>Tipe Data</u>	<u>Keterangan</u>
<u>ID</u>	<u>Int</u>	PK, auto increment
<u>IDPasien</u>	Varchar(6)	FK
<u>IDPoli</u>	Varchar(2)	FK
<u>Tanggal</u>	Varchar(10)	

Jawab:

Pasien:

```
MariaDB [UTS_09031382126161]> Create Table Pasien (IDPasien varchar(6), Nama varchar(30),  
Alamat text, Telepon varchar(20), primary key(IDPasien));  
Query OK, 0 rows affected (0.011 sec)  
  
MariaDB [UTS_09031382126161]> desc Pasien;  
+-----+-----+-----+-----+-----+-----+  
| Field | Type      | Null | Key | Default | Extra |  
+-----+-----+-----+-----+-----+-----+  
| IDPasien | varchar(6) | NO   | PRI | NULL    |       |  
| Nama      | varchar(30) | YES  |     | NULL    |       |  
| Alamat    | text       | YES  |     | NULL    |       |  
| Telepon   | varchar(20) | YES  |     | NULL    |       |  
+-----+-----+-----+-----+-----+-----+  
4 rows in set (0.017 sec)
```

Poli:

```
MariaDB [UTS_09031382126161]> create table poli (IDPoli varchar(2), NamaPoli varchar(30),  
primary key(IDPoli));  
Query OK, 0 rows affected (0.009 sec)  
  
MariaDB [UTS_09031382126161]> desc poli;  
+-----+-----+-----+-----+-----+-----+  
| Field | Type      | Null | Key | Default | Extra |  
+-----+-----+-----+-----+-----+-----+  
| IDPoli | varchar(2) | NO   | PRI | NULL    |       |  
| NamaPoli | varchar(30) | YES  |     | NULL    |       |  
+-----+-----+-----+-----+-----+-----+  
2 rows in set (0.019 sec)
```

Registrasi:

```
MariaDB [UTS_09031382126161]> create table registrasi ( ID int auto_increment, IDPasien
varchar(6), IDPoli varchar(2), Tanggal varchar(10), primary key(ID), foreign key (IDPa
sien) references Pasien(IDPasien), foreign key (IDPoli) references poli(IDPoli));
Query OK, 0 rows affected (0.023 sec)
```

```
MariaDB [UTS_09031382126161]> desc registrasi;
```

Field	Type	Null	Key	Default	Extra
ID	int(11)	NO	PRI	NULL	auto_increment
IDPasien	varchar(6)	YES	MUL	NULL	
IDPoli	varchar(2)	YES	MUL	NULL	
Tanggal	varchar(10)	YES		NULL	

4 rows in set (0.014 sec)

3. Ubahlah tipe data field tanggal di tabel registrasi menjadi date

Jawab:

```
MariaDB [UTS_09031382126161]> alter table registrasi modify tanggal date;
Query OK, 0 rows affected (0.054 sec)
Records: 0 Duplicates: 0 Warnings: 0
```

```
MariaDB [UTS_09031382126161]> desc registrasi;
```

Field	Type	Null	Key	Default	Extra
ID	int(11)	NO	PRI	NULL	auto_increment
IDPasien	varchar(6)	YES	MUL	NULL	
IDPoli	varchar(2)	YES	MUL	NULL	
tanggal	date	YES		NULL	

4 rows in set (0.019 sec)

4. Untuk tabel yang telah anda buat sebelumnya, masukkanlah data-data berikut:

Pasien

<u>IDPasien</u>	<u>Nama</u>	<u>Alamat</u>	<u>Telepon</u>
P00001	Melli	Bukit	0811-1111111
P00002	Desi	Lemabang	0878-87878787
P00003	Alvin	Kenten	0822-22002288
P00004	Lina	Plaju	0831-45729488

Poli

<u>IDPoli</u>	<u>NamaPoli</u>
01	Gigi
02	Anak
03	Umum
04	Penyakit Dalam

Registrasi

<u>ID</u>	<u>IDPasien</u>	<u>IDPoli</u>	<u>Tanggal</u>
1	P00001	03	2018-03-03
2	P00003	01	2018-03-04
3	P00001	01	2018-03-10
4	P00004	04	2018-03-11

Jawab:

Pasien:

```
MariaDB [UTS_09031382126161]> insert into pasien values
→ ("P00001", "Melli", "Bukit", "0811-111111"),
→ ("P00002", "Desi", "Lemabang", "0878-87878787"),
→ ("P00003", "Alvin", "Kenten", "0822-22002288"),
→ ("P00004", "Lina", "Plaju", "0831-45729488");
```

Query OK, 4 rows affected (0.038 sec)

Records: 4 Duplicates: 0 Warnings: 0

```
MariaDB [UTS_09031382126161]> select * from pasien;
```

IDPasien	Nama	Alamat	Telepon
P00001	Melli	Bukit	0811-111111
P00002	Desi	Lemabang	0878-87878787
P00003	Alvin	Kenten	0822-22002288
P00004	Lina	Plaju	0831-45729488

4 rows in set (0.001 sec)

Poli:

```
MariaDB [UTS_09031382126161]> insert into poli values
```

```
→ ("01", "Gigi"),
→ ("02", "Anak"),
→ ("03", "Umum"),
→ ("04", "Penyakit Dalam");
```

Query OK, 4 rows affected (0.008 sec)

Records: 4 Duplicates: 0 Warnings: 0

```
MariaDB [UTS_09031382126161]> select * from poli;
```

IDPoli	NamaPoli
01	Gigi
02	Anak
03	Umum
04	Penyakit Dalam

4 rows in set (0.001 sec)

Registrasi:

```
MariaDB [UTS_09031382126161]> insert into registrasi values
```

```
→ (1, "P00001", "03", "2018-03-03"),
→ (null, "P00003", "01", "2018-03-04"),
→ (null, "P00001", "01", "2018-03-10"),
→ (null, "P00004", "04", "2018-03-11");
```

Query OK, 4 rows affected (0.009 sec)

Records: 4 Duplicates: 0 Warnings: 0

```
MariaDB [UTS_09031382126161]> select * from registrasi;
```

ID	IDPasien	IDPoli	tanggal
1	P00001	03	2018-03-03
2	P00003	01	2018-03-04
3	P00001	01	2018-03-10
4	P00004	04	2018-03-11

4 rows in set (0.001 sec)

5. Tampilkan data pasien yang namanya diakhiri dengan huruf i

<u>IDPasien</u>	<u>Nama</u>	<u>Alamat</u>	<u>Telepon</u>
P00001	Melli	Bukit	0811-1111111
P00002	Desi	Lemabang	0878-87878787

Jawab:

```
MariaDB [(none)]> use UTS_09031382126161;
Database changed
MariaDB [UTS_09031382126161]> select * from pasien where nama like '%i';
+-----+-----+-----+-----+
| IDPasien | Nama | Alamat | Telepon |
+-----+-----+-----+-----+
| P00001 | Melli | Bukit | 0811-1111111 |
| P00002 | Desi | Lemabang | 0878-87878787 |
+-----+-----+-----+-----+
2 rows in set (0.001 sec)
```

6. tampilkan data pasien yang pernah melakukan registrasi

<u>IDPasien</u>	<u>Nama</u>	<u>Alamat</u>	<u>Telepon</u>
P00001	Melli	Bukit	0811-1111111
P00003	Alvin	Kenten	0822-22002288
P00004	Lina	Plaju	0831-45729488

Jawab:

```
MariaDB [UTS_09031382126161]> select distinct pasien.IDPasien, pasien>Nama, pasien.Ala
at, pasien.Telepon from pasien inner join registrasi on pasien.IDPasien = registrasi.ID
Pasien;
+-----+-----+-----+-----+
| IDPasien | Nama | Alamat | Telepon |
+-----+-----+-----+-----+
| P00001 | Melli | Bukit | 0811-1111111 |
| P00003 | Alvin | Kenten | 0822-22002288 |
| P00004 | Lina | Plaju | 0831-45729488 |
+-----+-----+-----+-----+
3 rows in set (0.017 sec)
```

7. Buatlah view untuk menampilkan data frekuensi berobat pasien:

<u>Nama</u>	<u>Jumlah Berobat</u>
Melli	2
Desi	0
Alvin	1
Lina	1

Jawab:

```
MariaDB [UTS_09031382126161]> create view FrekuensiBerobatPasien as select pasien.nama,
count(registrasi.IDPasien) as JumlahBerobat from pasien left join registrasi on pasien
.IDPasien = registrasi.IDPasien group by nama;
Query OK, 0 rows affected (0.003 sec)
```

```
MariaDB [UTS_09031382126161]> select * from FrekuensiBerobatPasien;
+-----+-----+
| nama | JumlahBerobat |
+-----+-----+
| Alvin | 1 |
| Desi | 0 |
| Lina | 1 |
| Melli | 2 |
+-----+-----+
4 rows in set (0.002 sec)
```

8. Buatlah view untuk menampilkan data pengobatan untuk pasien yang melakukan registrasi antara tanggal 4 Maret 2018 hingga 10 Maret 2018

<u>Nama</u>	<u>NamaPoli</u>	<u>Tanggal</u>
Alvin	Gigi	2018-03-04
Melli	Gigi	2018-03-10

Jawab:

```
MariaDB [UTS_09031382126161]> create view RegistrasiTanggal as select pasien>Nama, poli
>NamaPoli, registrasi.tanggal from registrasi join pasien on pasien.IDPasien = registra
si.IDPasien join poli on poli.IDPoli = registrasi.IDPoli where registrasi.tanggal betwe
en '2018-03-04' and '2018-03-10' order by registrasi.tanggal asc;
Query OK, 0 rows affected (0.011 sec)
```

```
MariaDB [UTS_09031382126161]> select * from RegistrasiTanggal;
+-----+-----+-----+
| Nama | NamaPoli | tanggal |
+-----+-----+-----+
| Alvin | Gigi | 2018-03-04 |
| Melli | Gigi | 2018-03-10 |
+-----+-----+-----+
2 rows in set (0.002 sec)
```

9. Dengan menggunakan subquery, tampilkan nama pasien yang berobat di poli gigi!

<u>Nama</u>
Melli
Alvin

Jawab:

```
MariaDB [UTS_09031382126161]> select nama from pasien where IDPasien = some (select IDP
asien from registrasi where IDPoli = (select IDPoli from poli where NamaPoli = 'Gigi'))
;
+-----+
| nama |
+-----+
| Melli |
| Alvin |
+-----+
2 rows in set (0.009 sec)
```