Normalisasi DB "RS_UEU"

Normalisasi Database RS_UEU

2NF

Tabel Obat

Kode Obat	Nama Obat	Harga Obat	ID Dosis	Dosis pada Resep Obat
R-001	Acyclovir Tablet	180000	32445	2 Tablet Setiap Empat Jam
R-002	Actiretin	220000	34400	1 Tablet Setiap Enam Jam
P-001	Macrogol	110000	38995	1 Tablet Setiap Enam Jam
B-001	Panadol	15000	36221	3 Tablet Setiap Enam Jam
B-002	Daktarin	35000	32445	2 Tablet Setiap Enam Jam

Tabel Pasien

ID Pasien	Nama	Jenis Kelamin	Tanggal Lahir
IDP001	Kollyze Ordeo	Perempuan	19 Maret 1975
IDP002	Janis Anne	Perempuan	16 Oktober 1974
IDP003	Washington Report	Laki-Laki	19 May 1970
IDP004	Joane Smith	Perempuan	03 January 1980
IDP005	Paul Livinghum	Laki-Laki	08 November 1990

Tabel Rekap Kunjungan

No Rekam Medis	ID Pasien	Kode Dokter	Kode Obat	Jmlh Tablet	Tgl Resep
012345-2016	IDP001	29627	R-001	50	12-Oct-22
012543-2016	IDP002	32445	R-002	30	14-Oct-22
072212-2020	IDP003	33456	P-001	60	26-Oct-22
071113-2020	IDP004	36221	B-001	30	26-Oct-22
032114-2018	IDP005	40004	B-002	30	26-Oct-22

Tabel Dokter

Kode Dokter	Nama	Spesialis
29627	Julio Sanches	Dermathology
32445	George LeGrande	Neurology
33456	Kathy McPherson	Psychiatry
36221	Trans Minh	SpOG
40004	Ming Chin	Jantung

N3

Tabel Obat

Kode Obat	Nama Obat	Harga Obat
R-001	Acyclovir Tablet	180000
R-002	Actiretin	220000
P-001	Macrogol	110000
B-001	Panadol	15000
B-002	Daktarin	35000

Tabel Dosis

ID Dosis	Jmlh Tablet	Keterangan	Tgl Resep
32445	50	2 Tablet Setiap Empat Jam	12-Oct-22
34400	30	1 Tablet Setiap Enam Jam	14-Oct-22
38995	60	1 Tablet Setiap Enam Jam	26-Oct-22
36221	30	3 Tablet Setiap Enam Jam	26-Oct-22
32445	30	2 Tablet Setiap Enam Jam	26-Oct-22

Tabel Pasien

ID Pasien	Nama	Jenis Kelamin	Tanggal Lahir
IDP001	Kollyze Ordeo	Perempuan	19 Maret 1975
IDP002	Janis Anne	Perempuan	16 Oktober 1974
IDP003	Washington Report	Laki-Laki	19 May 1970
IDP004	Joane Smith	Perempuan	03 January 1980
IDP005	Paul Livinghum	Laki-Laki	08 November 1990

Tabel Dokter

Kode Dokter	Nama	Spesialis
29627	Julio Sanches	Dermathology
32445	George LeGrande	Neurology
33456	Kathy McPherson	Psychiatry
36221	Trans Minh	SpOG
40004	Ming Chin	Jantung

Tabel Rekap Kunjungan

No Rekam Medis	ID Pasien	Kode Dokter	Kode Obat	ID Dosis
012345-2016	IDP001	29627	R-001	32445
012543-2016	IDP002	32445	R-002	34400
072212-2020	IDP003	33456	P-001	38995
071113-2020	IDP004	36221	B-001	36221
032114-2018	IDP005	40004	B-002	32445

Pembuatan DB "RS_UEU"


```
C:\Windows\System32\cmd.exe - mysql.exe -u root -p                                    —    □    ×

D:\xampp\mysql\bin>mysql.exe -u root -p
Enter password:
Welcome to the MariaDB monitor.  Commands end with ; or \g.
Your MariaDB connection id is 127
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 rs_ueu;
Query OK, 1 row affected (0.000 sec)

MariaDB [(none)]>
```



```
Select C:\Windows\System32\cmd.exe - mysql.exe -u root                                —    □    ×

D:\xampp\mysql\bin>mysql.exe -u root
Welcome to the MariaDB monitor.  Commands end with ; or \g.
Your MariaDB connection id is 129
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)]> SHOW DATABASES;
+--------------------+
| Database           |
+--------------------+
| information_schema |
| mysql              |
| performance_schema |
| phpmyadmin         |
| rs_ueu             |
| test               |
+--------------------+
6 rows in set (0.001 sec)

MariaDB [(none)]>
```

Pembuatan "`tabel_obat`"


```
D:\xampp\mysql\bin>mysql.exe -u root
Welcome to the MariaDB monitor.  Commands end with ; or \g.
Your MariaDB connection id is 94
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)]> USE rs_ueu;
Database changed
MariaDB [rs_ueu]> CREATE TABLE `tabel_obat` (`kode_obat` VARCHAR(5) NOT NULL , `nama` VARCHAR(255) NOT NULL , `harga` IN
T NOT NULL , PRIMARY KEY (`kode_obat`));
Query OK, 0 rows affected (0.292 sec)

MariaDB [rs_ueu]> SHOW TABLES;
+----------------+
| Tables_in_rs_ueu |
+----------------+
| tabel_obat     |
+----------------+
1 row in set (0.000 sec)

MariaDB [rs_ueu]>
```

Pembuatan "`tabel_dosis`"


```
MariaDB [rs_ueu]> CREATE TABLE `tabel_dosis` (`id_dosis` VARCHAR(5) NOT NULL , `jmlh_tablet` INT NOT NULL , `ket` VARCHA
R(255) NOT NULL , `tgl_resep` VARCHAR(255) NOT NULL );
Query OK, 0 rows affected (0.251 sec)

MariaDB [rs_ueu]> SHOW TABLES;
+----------------+
| Tables_in_rs_ueu |
+----------------+
| tabel_dosis    |
| tabel_obat     |
+----------------+
2 rows in set (0.000 sec)

MariaDB [rs_ueu]>
```

Pembuatan "`tabel_pasien`"

```
Select C:\Windows\System32\cmd.exe - mysql.exe -u root                                      —    □    ✕

MariaDB [rs_ueu]> CREATE TABLE `tabel_pasien` (`id_pasien` VARCHAR(6) NOT NULL , `nama` VARCHAR(255) NOT NULL , `jenis_k
elamin` ENUM("Laki-Laki","Perempuan") NOT NULL , `tgl_lahir` VARCHAR(20) NOT NULL , PRIMARY KEY (`id_pasien`));
Query OK, 0 rows affected (0.501 sec)

MariaDB [rs_ueu]> SHOW TABLES;
+------------------+
| Tables_in_rs_ueu |
+------------------+
| tabel_dosis      |
| tabel_obat       |
| tabel_pasien     |
+------------------+
3 rows in set (0.000 sec)

MariaDB [rs_ueu]> _
```

Pembuatan "`tabel_dokter`"

```
Select C:\Windows\System32\cmd.exe - mysql.exe -u root                                      —    □    ✕

MariaDB [rs_ueu]> CREATE TABLE `tabel_dokter` (`kode_dokter` VARCHAR(5) NOT NULL , `nama` VARCHAR(255) NOT NULL , `spesi
alis` VARCHAR(255) NOT NULL , PRIMARY KEY (`kode_dokter`));
Query OK, 0 rows affected (0.284 sec)

MariaDB [rs_ueu]> SHOW TABLES;
+------------------+
| Tables_in_rs_ueu |
+------------------+
| tabel_dokter     |
| tabel_dosis      |
| tabel_obat       |
| tabel_pasien     |
+------------------+
4 rows in set (0.000 sec)

MariaDB [rs_ueu]>
```

Pembuatan "`tabel_rekap_kunjungan`"

```
4 rows in set (0.000 sec)

MariaDB [rs_ueu]> CREATE TABLE `tabel_rekap_kunjungan` (`no_rekam_medis` VARCHAR(12) NOT NULL , `id_pasien` VARCHAR(6) N
OT NULL , `kode_dokter` VARCHAR(5) NOT NULL , `kode_obat` VARCHAR(5) NOT NULL , `id_dosis` VARCHAR(5) NOT NULL , PRIMARY
 KEY (`no_rekam_medis`));
Query OK, 0 rows affected (0.530 sec)

MariaDB [rs_ueu]> SHOW TABLES;
+----------------------+
| Tables_in_rs_ueu     |
+----------------------+
| tabel_dokter         |
| tabel_dosis          |
| tabel_obat           |
| tabel_pasien         |
| tabel_rekap_kunjungan |
+----------------------+
5 rows in set (0.000 sec)

MariaDB [rs_ueu]> _
```

Menambah Foreign Key "`tabel_rekap_kunjungan`"

```
ERROR 1005 (HY000): Can't create table `rs_ueu`.`tabel_rekap_kunjungan` (errno: 150 "Foreign key constraint is incorrect
ly formed")
MariaDB [rs_ueu]> ALTER TABLE `tabel_rekap_kunjungan` ADD  CONSTRAINT `id_pasien` FOREIGN KEY (`id_pasien`) REFERENCES `
tabel_pasien`(`id_pasien`) ON DELETE CASCADE ON UPDATE CASCADE;
Query OK, 0 rows affected (0.933 sec)
Records: 0  Duplicates: 0  Warnings: 0

MariaDB [rs_ueu]> ALTER TABLE `tabel_rekap_kunjungan` ADD  CONSTRAINT `kode_dokter` FOREIGN KEY (`kode_dokter`) REFERENC
ES `tabel_dokter`(`kode_dokter`) ON DELETE CASCADE ON UPDATE CASCADE;
Query OK, 0 rows affected (0.997 sec)
Records: 0  Duplicates: 0  Warnings: 0

MariaDB [rs_ueu]> ALTER TABLE `tabel_rekap_kunjungan` ADD  CONSTRAINT `kode_obat` FOREIGN KEY (`kode_obat`) REFERENCES `
tabel_obat`(`kode_obat`) ON DELETE CASCADE ON UPDATE CASCADE;
Query OK, 0 rows affected (1.351 sec)
Records: 0  Duplicates: 0  Warnings: 0

MariaDB [rs_ueu]> ALTER TABLE `tabel_rekap_kunjungan` ADD  CONSTRAINT `id_dosis` FOREIGN KEY (`id_dosis`) REFERENCES `ta
bel_dosis`(`id_dosis`) ON DELETE CASCADE ON UPDATE CASCADE;
Query OK, 0 rows affected (1.174 sec)
Records: 0  Duplicates: 0  Warnings: 0

MariaDB [rs_ueu]>
```

Mengisi data "`tabel_obat`"


```
C:\Windows\System32\cmd.exe - mysql.exe -u root                                          —    □    ×

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)]> USE rs_ueu;
Database changed
MariaDB [rs_ueu]> INSERT INTO `tabel_obat` (`kode_obat`, `nama`, `harga`) VALUES ('R-001', 'Acyclovir Tablet', '180000')
, ('R-002', 'Actiretin', '220000'), ('P-001', 'Macrogol', '110000'), ('B-001', 'Panadol', '15000'), ('B-002', 'Daktarin'
, '35000');
Query OK, 5 rows affected (0.085 sec)
Records: 5  Duplicates: 0  Warnings: 0

MariaDB [rs_ueu]> SELECT * ALL from tabel_obat
    -> ;
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MariaDB server versi
on for the right syntax to use near 'ALL from tabel_obat' at line 1
MariaDB [rs_ueu]> SELECT * from tabel_obat;
+-----------+------------------+--------+
| kode_obat | nama             | harga  |
+-----------+------------------+--------+
| B-001     | Panadol          |  15000 |
| B-002     | Daktarin         |  35000 |
| P-001     | Macrogol         | 110000 |
| R-001     | Acyclovir Tablet | 180000 |
| R-002     | Actiretin        | 220000 |
+-----------+------------------+--------+
5 rows in set (0.000 sec)

MariaDB [rs_ueu]>
```

Mengisi Data "`tabel_dosis`"


```
C:\Windows\System32\cmd.exe - mysql.exe -u root                                          —    □    ×

MariaDB [rs_ueu]> INSERT INTO `tabel_dosis` (`id_dosis`, `jmlh_tablet`, `ket`, `tgl_resep`) VALUES ('32445', '50', '2 Ta
blet Setiap Empat Jam', '12-Oct-22'), ('34400', '30', '1 Tablet Setiap Enam Jam', '14-Oct-22'), ('38995', '60', '1 Table
t Setiap Enam Jam', '26-Oct-22'), ('36221', '30', '3 Tablet Setiap Enam Jam', '26-Oct-22'), ('32446', '30', '2 Tablet Se
tiap Enam Jam', '26-Oct-22');
Query OK, 5 rows affected (0.102 sec)
Records: 5  Duplicates: 0  Warnings: 0

MariaDB [rs_ueu]> SELECT * FROM tabel_dosis;
+----------+-------------+-------------------------+-----------+
| id_dosis | jmlh_tablet | ket                     | tgl_resep |
+----------+-------------+-------------------------+-----------+
| 32445    |          50 | 2 Tablet Setiap Empat Jam | 12-Oct-22 |
| 32446    |          30 | 2 Tablet Setiap Enam Jam | 26-Oct-22 |
| 34400    |          30 | 1 Tablet Setiap Enam Jam | 14-Oct-22 |
| 36221    |          30 | 3 Tablet Setiap Enam Jam | 26-Oct-22 |
| 38995    |          60 | 1 Tablet Setiap Enam Jam | 26-Oct-22 |
+----------+-------------+-------------------------+-----------+
5 rows in set (0.000 sec)

MariaDB [rs_ueu]>
```

Mengisi Data "`tabel_pasien`"

```
C:\Windows\System32\cmd.exe - mysql.exe  -u root                                    —  □  ×

MariaDB [rs_ueu]> INSERT INTO `tabel_pasien` (`id_pasien`, `nama`, `jenis_kelamin`, `tgl_lahir`) VALUES ('IDP001', 'Koll
yze Ordeo', 'Perempuan', '19 Maret 1975'), ('IDP002', 'Janis Anne', 'Perempuan', '16 Oktober 1974'), ('IDP003', 'Washing
ton Report', 'Laki-Laki', '19 May 1970'), ('IDP004', 'Joane Smith', 'Perempuan', '03 January 1980'), ('IDP005', 'Paul Li
vinghum', 'Laki-Laki', '08 November 1990');
Query OK, 5 rows affected (0.098 sec)
Records: 5  Duplicates: 0  Warnings: 0

MariaDB [rs_ueu]> SELECT * FROM tabel_pasien;
+-----------+-------------------+----------------+------------------+
| id_pasien | nama              | jenis_kelamin  | tgl_lahir        |
+-----------+-------------------+----------------+------------------+
| IDP001    | Kollyze Ordeo     | Perempuan      | 19 Maret 1975    |
| IDP002    | Janis Anne        | Perempuan      | 16 Oktober 1974  |
| IDP003    | Washington Report | Laki-Laki      | 19 May 1970      |
| IDP004    | Joane Smith       | Perempuan      | 03 January 1980  |
| IDP005    | Paul Livinghum    | Laki-Laki      | 08 November 1990 |
+-----------+-------------------+----------------+------------------+
5 rows in set (0.000 sec)

MariaDB [rs_ueu]>
```

Mengisi Data "`tabel_dokter`"

```
C:\Windows\System32\cmd.exe - mysql.exe  -u root                                    —  □  ×

MariaDB [rs_ueu]> INSERT INTO `tabel_dokter` (`kode_dokter`, `nama`, `spesialis`) VALUES ('29627', 'Julio Sanches', 'Der
mathology'), ('32445', 'George LeGrande', 'Neurology'), ('33456', 'Kathy McPherson', 'Psychiatry'), ('36221', 'Trans Min
h', 'SpOG'), ('40004', 'Ming Chin', 'Jantung');
Query OK, 5 rows affected (0.109 sec)
Records: 5  Duplicates: 0  Warnings: 0

MariaDB [rs_ueu]> SELECT * FROM tabel_dokter;
+-------------+-----------------+-------------+
| kode_dokter | nama            | spesialis   |
+-------------+-----------------+-------------+
| 29627       | Julio Sanches   | Dermathology|
| 32445       | George LeGrande | Neurology   |
| 33456       | Kathy McPherson | Psychiatry  |
| 36221       | Trans Minh      | SpOG        |
| 40004       | Ming Chin       | Jantung     |
+-------------+-----------------+-------------+
5 rows in set (0.000 sec)

MariaDB [rs_ueu]>
```

Mengisi Data "`tabel_rekap_kunjungan`"
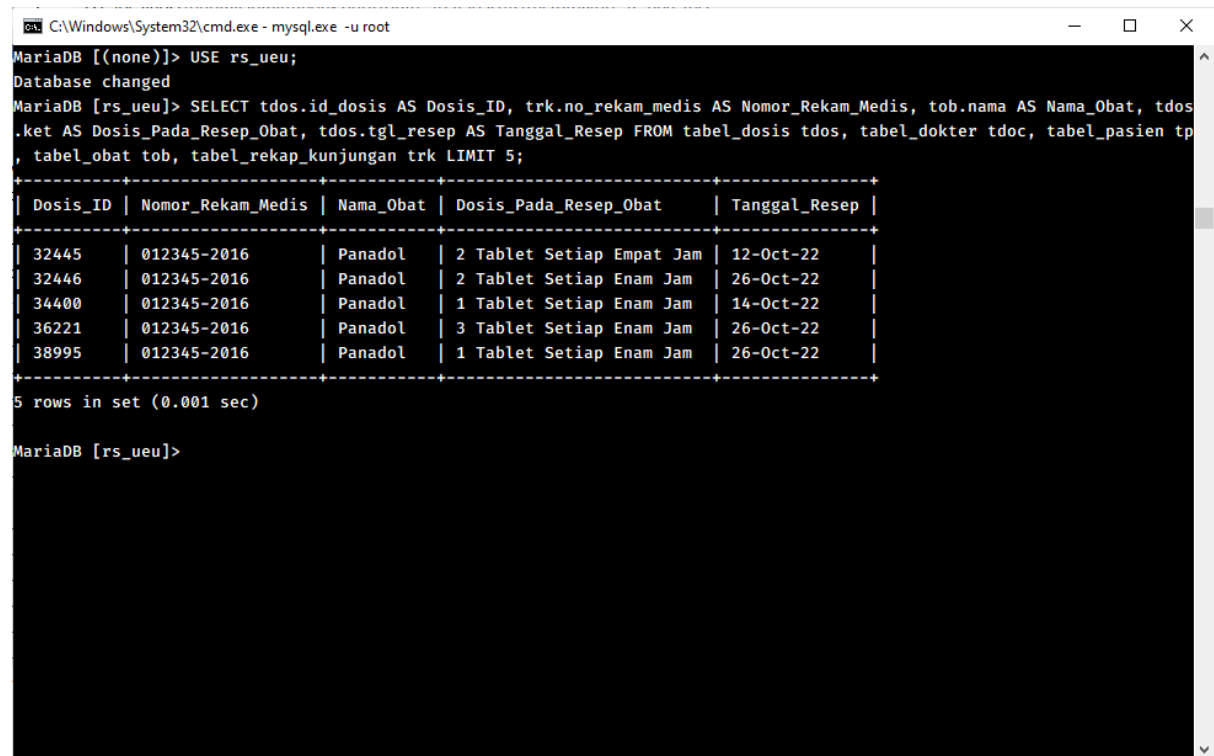
```
C:\Windows\System32\cmd.exe - mysql.exe  -u root                                    —    □    ×

MariaDB [rs_ueu]> INSERT INTO `tabel_rekap_kunjungan` (`no_rekam_medis`, `id_pasien`, `kode_dokter`, `kode_obat`, `id_do
sis`) VALUES ('012345-2016', 'IDP001', '29627', 'R-001', '32445'), ('012543-2016', 'IDP002', '32445', 'R-002', '34400'),
 ('072212-2020', 'IDP003', '33456', 'P-001', '38995'), ('071113-2020', 'IDP004', '36221', 'B-001', '36221'), ('032114-20
18', 'IDP005', '40004', 'B-002', '32446');
Query OK, 5 rows affected (0.177 sec)
Records: 5  Duplicates: 0  Warnings: 0

MariaDB [rs_ueu]> SELECT * FROM tabel_rekap_kunjungan;
+----------------+-----------+-------------+-----------+----------+
| no_rekam_medis | id_pasien | kode_dokter | kode_obat | id_dosis |
+----------------+-----------+-------------+-----------+----------+
| 012345-2016    | IDP001    | 29627       | R-001     | 32445    |
| 012543-2016    | IDP002    | 32445       | R-002     | 34400    |
| 032114-2018    | IDP005    | 40004       | B-002     | 32446    |
| 071113-2020    | IDP004    | 36221       | B-001     | 36221    |
| 072212-2020    | IDP003    | 33456       | P-001     | 38995    |
+----------------+-----------+-------------+-----------+----------+
5 rows in set (0.000 sec)

MariaDB [rs_ueu]>
```

Menampilkan Query "`Dosis_ID, Nomor_Rekam_Medis, Nama_Obat, Dosis_pada_Resep_Obat, Tanggal_Resep`"

```
SELECT tdos.id_dosis AS Dosis_ID, trk.no_rekam_medis AS Nomor_Rekam_Medis,
tob.nama AS Nama_Obat, tdos.ket AS Dosis_Pada_Resep_Obat, tdos.tgl_resep AS
Tanggal_Resep FROM tabel_dosis tdos, tabel_dokter tdoc, tabel_pasien tp,
tabel_obat tob, tabel_rekap_kunjungan trk LIMIT 5;
```