

## LAPORAN E-UAS PRAKTIKUM SISTEM BASIS DATA

Nama : Daffa Putra Alwansyah  
NIM : L200190031  
Kelas : B  
Mata Kuliah : Praktikum Sistem Basis Data  
Pengampu : Dedi Gunawan  
Ruang, No. Kursi : HOME,13

1. Buatlah database berdasarkan kasus di atas dengan nama NamaDatabase\_Nim Mahasiswa! Lalu buat tabel dan relasinya.

```
Command Prompt - mysql -u root -p
MariaDB [(none)]> create database klinik_L200190031;
Query OK, 1 row affected (0.001 sec)

MariaDB [(none)]> use klinik_L200190031;
Database changed
MariaDB [klinik_L200190031]> create table dokter(
  -> no_induk_dokter integer primary key,
  -> nama_dokter varchar(55) not null,
  -> alamat_dokter varchar(55) not null,
  -> spesialisasi varchar(25) not null);
Query OK, 0 rows affected (0.025 sec)

MariaDB [klinik_L200190031]> create table pasien(
  -> no_pasien integer primary key,
  -> nama_pasien varchar(55) not null,
  -> alamat_pasien varchar(55) not null,
  -> tgl_lahir varchar(25) not null);
Query OK, 0 rows affected (0.020 sec)

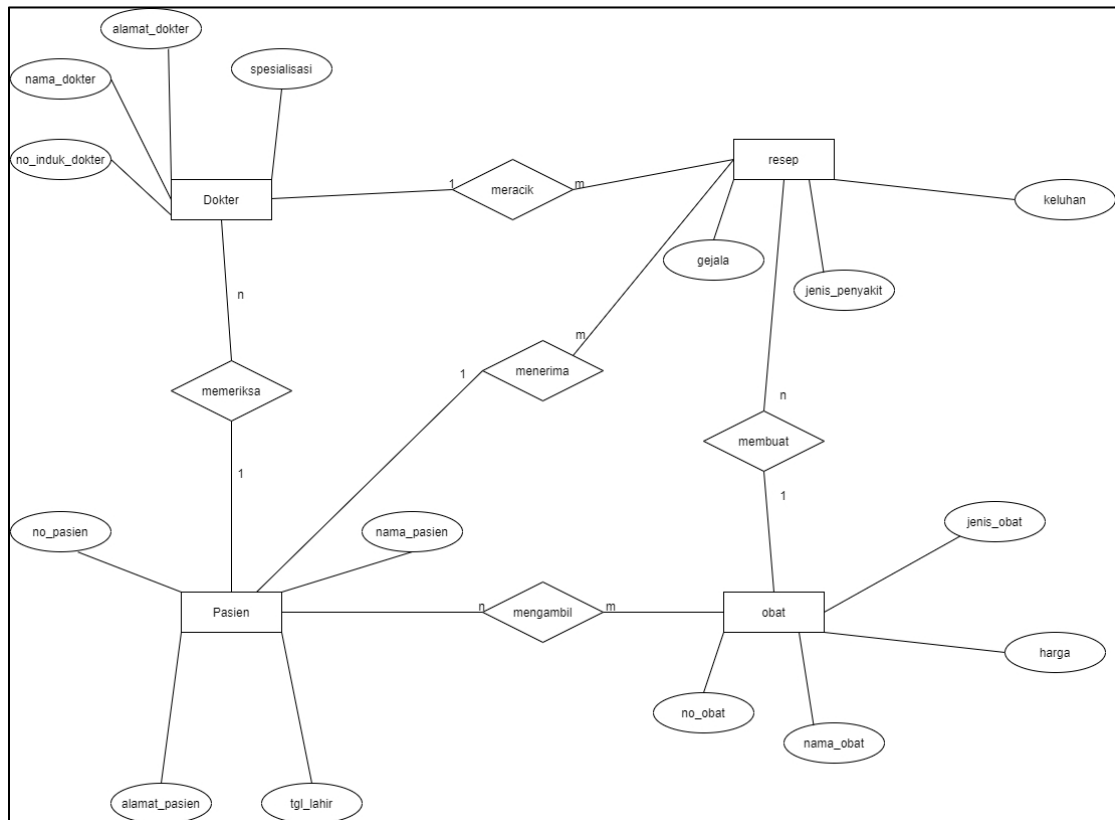
MariaDB [klinik_L200190031]> create table obat(
  -> no_obat integer primary key,
  -> nama_obat varchar(55) not null,
  -> jenis_obat varchar(55) not null,
  -> harga integer default 0 not null);
Query OK, 0 rows affected (0.025 sec)

MariaDB [klinik_L200190031]> create table resep(
  -> no_induk_dokterFK integer references dokter(no_induk_dokter) on delete cascade on update cascade,
  -> no_pasienFK integer references pasien(no_pasien) on delete cascade on update cascade,
  -> no_obatFK integer references obat(no_obat) on delete cascade on update cascade,
  -> key(no_induk_dokterFK, no_pasienFK, no_obatFK),
  -> keluhan varchar(55) not null,
  -> gejala varchar(55) not null,
  -> jenis_penyakit varchar(55) not null);
Query OK, 0 rows affected (0.024 sec)

MariaDB [klinik_L200190031]> create table pasien_has_obat(
  -> no_pasienFK integer references pasien(no_pasien) on delete cascade on update cascade,
  -> no_obatFK integer references obat(no_obat) on delete cascade on update cascade);
Query OK, 0 rows affected (0.017 sec)

MariaDB [klinik_L200190031]>
```

## Relasi:



	dokter	pasien	resep	obat
dokter		1:m	1:m	-
pasien	n:1		1:m	n:m
resep	n:1	n:1		n:1
obat	-	n:m	1:m	

2. Tuliskan kode program python untuk melakukan perintah INSERT data pada masing-masing tabel, dengan jumlah data pada masing-masing tabel tersebut minimal 15 record.

**dokter**

```
import mysql.connector
```

```
try:
```

```
    connection = mysql.connector.connect(user='root', database='klinik_L200190031')
```

```
    mySql_insert_query = """INSERT INTO dokter (no_induk_dokter, nama_dokter,
alamat_dokter, spesialisasi)
                        VALUES (%s, %s, %s, %s) """
```

```
    records_to_insert = [(1, 'Daffa', 'Karanganyar', 'Kulit'),
                          (2, 'Putra', 'Gawok', 'Gigi'),
                          (3, 'Alwansyah', 'Solo', 'Mata'),
                          (4, 'Luthfi', 'Makamhaji', 'Saraf'),
                          (5, 'Akbar', 'Manahan', 'Bedah'),
                          (6, 'Taufik', 'Kluyon', 'Anak'),
                          (7, 'Hidayat', 'Nusukan', 'Penyakit Dalam'),
                          (8, 'Yudha', 'Gilingan', 'Kandungan'),
                          (9, 'Rama', 'Banyuanyar', 'THT'),
                          (10, 'Fajri', 'Mangkubumen', 'Kelamin'),
                          (11, 'Dimas', 'Jebres', 'Tulang'),
                          (12, 'Dini', 'Mojosongo', 'Jantung'),
                          (13, 'Sekar', 'Boyolali', 'Paru'),
                          (14, 'Putri', 'Laweyan', 'Pembuluh Darah'),
                          (15, 'Rindi', 'Tipes', 'Trauma')]
```

```
    cursor = connection.cursor()
    cursor.executemany(mySql_insert_query, records_to_insert)
    connection.commit()
    print(cursor.rowcount, "Record inserted successfully")
```

```
except mysql.connector.Error as error:
```

```
    print("Failed to insert record into MySQL table {}".format(error))
```

```
finally:
```

```
    if connection.is_connected():
        cursor.close()
        connection.close()
        print("MySQL connection is closed")
```

## Python

```
Python 3.9.5 (tags/v3.9.5:0a7dcb0, May 3 2021, 17:27:64) on win32
Type "help()", "copyright()", "credits()" or "license()" for
>>>
===== RESTART: C:\Kuliah\Prak SBD\UAS\kl
15 Record inserted successfully
MySQL connection is closed
>>>
```

```
File Edit Format Run Options Window Help
import mysql.connector

try:
    connection = mysql.connector.connect(user='root', database='klinik_L200190031')

    mySql_insert_query = """INSERT INTO dokter (no_induk_dokter, nama_dokter, alamat_dokter, spesialisasi)
    VALUES (%s, %s, %s, %s) """

    records_to_insert = [(1, 'Daffa', 'Karanganyar', 'Kulit'),
        (2, 'Putra', 'Gawok', 'Gigi'),
        (3, 'Alwansyah', 'Solo', 'Mata'),
        (4, 'Luthfi', 'Makamhaji', 'Saraf'),
        (5, 'Akbar', 'Manahan', 'Bedah'),
        (6, 'Taufik', 'Kluyon', 'Anak'),
        (7, 'Hidayat', 'Nusukan', 'Penyakit Dalam'),
        (8, 'Yudha', 'Gilingan', 'Kandungan'),
        (9, 'Rama', 'Banyuanyar', 'THT'),
        (10, 'Fajri', 'Mangkubumen', 'Kelamin'),
        (11, 'Dimas', 'Jebres', 'Tulang'),
        (12, 'Dini', 'Mojosongo', 'Jantung'),
        (13, 'Sekar', 'Boyolali', 'Paru'),
        (14, 'Putri', 'Laweyan', 'Pembuluh Darah'),
        (15, 'Rindi', 'Tipes', 'Trauma')]

    cursor = connection.cursor()
    cursor.executemany(mySql_insert_query, records_to_insert)
    connection.commit()
    print(cursor.rowcount, "Record inserted successfully")

except mysql.connector.Error as error:
    print("Failed to insert record into MySQL table {}".format(error))

finally:
    if connection.is_connected():
        cursor.close()
        connection.close()
        print("MySQL connection is closed")
```

## CMD

```
Command Prompt - mysql -u root -p
MariaDB [klinik_L200190031]> select * from dokter;
```

no_induk_dokter	nama_dokter	alamat_dokter	spesialisasi
1	Daffa	Karanganyar	Kulit
2	Putra	Gawok	Gigi
3	Alwansyah	Solo	Mata
4	Luthfi	Makamhaji	Saraf
5	Akbar	Manahan	Bedah
6	Taufik	Kluyon	Anak
7	Hidayat	Nusukan	Penyakit Dalam
8	Yudha	Gilingan	Kandungan
9	Rama	Banyuanyar	THT
10	Fajri	Mangkubumen	Kelamin
11	Dimas	Jebres	Tulang
12	Dini	Mojosongo	Jantung
13	Sekar	Boyolali	Paru
14	Putri	Laweyan	Pembuluh Darah
15	Rindi	Tipes	Trauma

```
15 rows in set (0.000 sec)

MariaDB [klinik_L200190031]>
```

## **pasien**

```
import mysql.connector
```

```
try:
```

```
    connection = mysql.connector.connect(user='root',database='klinik_L200190031')
```

```
    mySql_insert_query = """INSERT INTO pasien (no_pasien, nama_pasien,
alamat_pasien, tgl_lahir)
        VALUES (%s, %s, %s, %s) """
```

```
    records_to_insert = [(10, 'Dodit', 'Tegal', '29 Oktober 1997'),
        (20, 'Ajie', 'Joglo', '28 Januari 1999'),
        (30, 'Eko', 'Joyosuran', '3 Februari 2000'),
        (40, 'Tyas', 'Kluyon', '5 Juni 2000'),
        (50, 'Dian', 'Makamhaji', '12 Juni 2001'),
        (60, 'Doni', 'Kadiporo', '23 Desember 1995'),
        (70, 'Rio', 'Laweyan', '11 Juli 1994'),
        (80, 'Andi', 'Kratonan', '10 November 1999'),
        (90, 'Reza', 'Manahan', '16 April 1999'),
        (100, 'Siti', 'Purwosari', '19 Mei 1994'),
        (110, 'Nur', 'Semanggi', '20 Agustus 1992'),
        (120, 'Indah', 'Serengan', '31 September 1999'),
        (130, 'Agus', 'Tipes', '8 Oktober 1993'),
        (140, 'Bayu', 'Pasar Kliwon', '1 November 1995'),
        (150, 'Ilham', 'Serengan', '2 Desember 1998')]
```

```
    cursor = connection.cursor()
    cursor.executemany(mySql_insert_query, records_to_insert)
    connection.commit()
    print(cursor.rowcount, "Record inserted successfully")
```

```
except mysql.connector.Error as error:
```

```
    print("Failed to insert record into MySQL table {}".format(error))
```

```
finally:
```

```
    if connection.is_connected():
        cursor.close()
        connection.close()
        print("MySQL connection is closed")
```

## Python

```
Python 3.9.5 (tags/v3.9.5:0a7dcbd, May 3 2021, 17:27:64) on win32
Type "help", "copyright", "credits" or "license()" for
>>>
===== RESTART: C:\Kuliah\Prak SBD\UAS\kl
15 Record inserted successfully
MySQL connection is closed
>>>
===== RESTART: C:\Kuliah\Prak SBD\UAS\kl
15 Record inserted successfully
MySQL connection is closed
>>>
```

```
File Edit Format Run Options Window Help
import mysql.connector

try:
    connection = mysql.connector.connect(user='root', database='klinik_L200190031')

    mySql_insert_query = """INSERT INTO pasien (no_pasien, nama_pasien, alamat_pasien, tgl_lahir)
    VALUES (%s, %s, %s, %s) """

    records_to_insert = [(10, 'Dodit', 'Tegal', '29 Oktober 1997'),
        (20, 'Ajie', 'Joglo', '28 Januari 1999'),
        (30, 'Eko', 'Joyosuran', '3 Februari 2000'),
        (40, 'Tyas', 'Kluyon', '5 Juni 2000'),
        (50, 'Dian', 'Makamhaji', '12 Juni 2001'),
        (60, 'Doni', 'Kadiporo', '23 Desember 1995'),
        (70, 'Rio', 'Laweyan', '11 Juli 1994'),
        (80, 'Andi', 'Kratonan', '10 November 1999'),
        (90, 'Reza', 'Manahan', '16 April 1999'),
        (100, 'Siti', 'Purwosari', '19 Mei 1994'),
        (110, 'Nur', 'Semanggi', '20 Agustus 1992'),
        (120, 'Indah', 'Serengan', '31 September 1999'),
        (130, 'Agus', 'Tipes', '8 Oktober 1993'),
        (140, 'Bayu', 'Pasar Kliwon', '1 November 1995'),
        (150, 'Ilham', 'Serengan', '2 Desember 1998')]

    cursor = connection.cursor()
    cursor.executemany(mySql_insert_query, records_to_insert)
    connection.commit()
    print(cursor.rowcount, "Record inserted successfully")

except mysql.connector.Error as error:
    print("Failed to insert record into MySQL table {}".format(error))

finally:
    if connection.is_connected():
        cursor.close()
        connection.close()
        print("MySQL connection is closed")
```

## CMD

```
Command Prompt - mysql -u root -p
MariaDB [klinik_L200190031]> select * from pasien;
```

no_pasien	nama_pasien	alamat_pasien	tgl_lahir
10	Dodit	Tegal	29 Oktober 1997
20	Ajie	Joglo	28 Januari 1999
30	Eko	Joyosuran	3 Februari 2000
40	Tyas	Kluyon	5 Juni 2000
50	Dian	Makamhaji	12 Juni 2001
60	Doni	Kadiporo	23 Desember 1995
70	Rio	Laweyan	11 Juli 1994
80	Andi	Kratonan	10 November 1999
90	Reza	Manahan	16 April 1999
100	Siti	Purwosari	19 Mei 1994
110	Nur	Semanggi	20 Agustus 1992
120	Indah	Serengan	31 September 1999
130	Agus	Tipes	8 Oktober 1993
140	Bayu	Pasar Kliwon	1 November 1995
150	Ilham	Serengan	2 Desember 1998

```
15 rows in set (0.001 sec)

MariaDB [klinik_L200190031]>
```

**obat**

```
import mysql.connector
```

```
try:
```

```
    connection = mysql.connector.connect(user='root',database='klinik_L200190031')
```

```
    mySql_insert_query = """INSERT INTO obat (no_obat, nama_obat, jenis_obat,
harga)
```

```
        VALUES (%s, %s, %s, %s) """
```

```
    records_to_insert = [(101, 'Acarbose', 'Serbuk', 20000),
        (201, 'Acetazolamide', 'Larutan', 30000),
        (301, 'Antangin', 'Larutan', 10000),
        (401, 'Antibiotik', 'Larutan', 60000),
        (501, 'Bodrex', 'Tablet', 15000),
        (601, 'Bleomycin', 'Tablet', 25000),
        (701, 'Combivent', 'Pil', 24000),
        (801, 'Combantrin', 'Kapsul', 22000),
        (901, 'Dermatix', 'Pil', 45000),
        (1001, 'Diapet', 'Tablet', 32000),
        (1101, 'Eptifibatide', 'Serbuk', 21000),
        (1201, 'Etanercept', 'Kapsul', 79000),
        (1301, 'Fosinopril', 'Pil', 39000),
        (1401, 'Glukagon', 'Tablet', 54000),
        (1501, 'Imboost', 'Tablet', 66000)]
```

```
    cursor = connection.cursor()
```

```
    cursor.executemany(mySql_insert_query, records_to_insert)
```

```
    connection.commit()
```

```
    print(cursor.rowcount, "Record inserted successfully")
```

```
except mysql.connector.Error as error:
```

```
    print("Failed to insert record into MySQL table {}".format(error))
```

```
finally:
```

```
    if connection.is_connected():
```

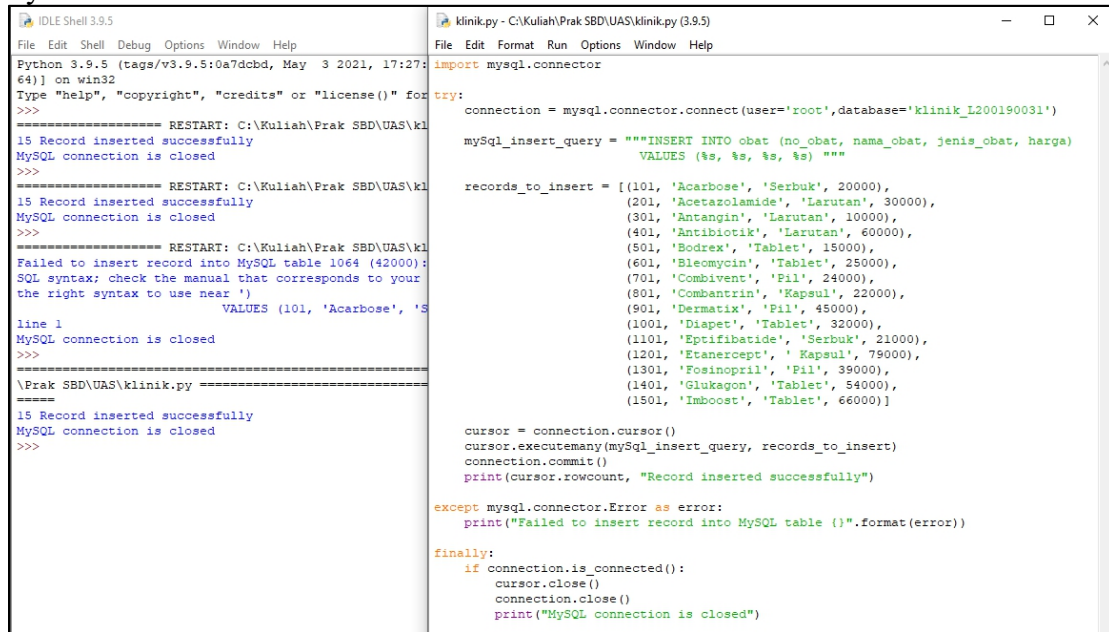
```
        cursor.close()
```

```
        connection.close()
```

```
        print("MySQL connection is closed")
```



## Python



The image shows two windows from the Python IDLE environment. The left window is the 'IDLE Shell 3.9.5' showing the execution of a script. It displays messages like 'MySQL connection is closed', 'Record inserted successfully', and an error message: 'Failed to insert record into MySQL table 1064 (42000): SQL syntax; check the manual that corresponds to your MySQL server version for the right syntax to use near '' VALUES (101, 'Acarbose', 'S'. The right window is 'klinik.py - C:\Kuliah\Prak SBD\UAS\klinik.py (3.9.5)' showing the source code. The code imports mysql.connector, connects to a MySQL database, defines an insert query, and attempts to insert a list of records. The records list contains 15 items, each with a number, a drug name, a type, and a price.

```
import mysql.connector

try:
    connection = mysql.connector.connect(user='root', database='klinik_L200190031')

    mySql_insert_query = """INSERT INTO obat (no_obat, nama_obat, jenis_obat, harga)
        VALUES (%s, %s, %s, %s) """

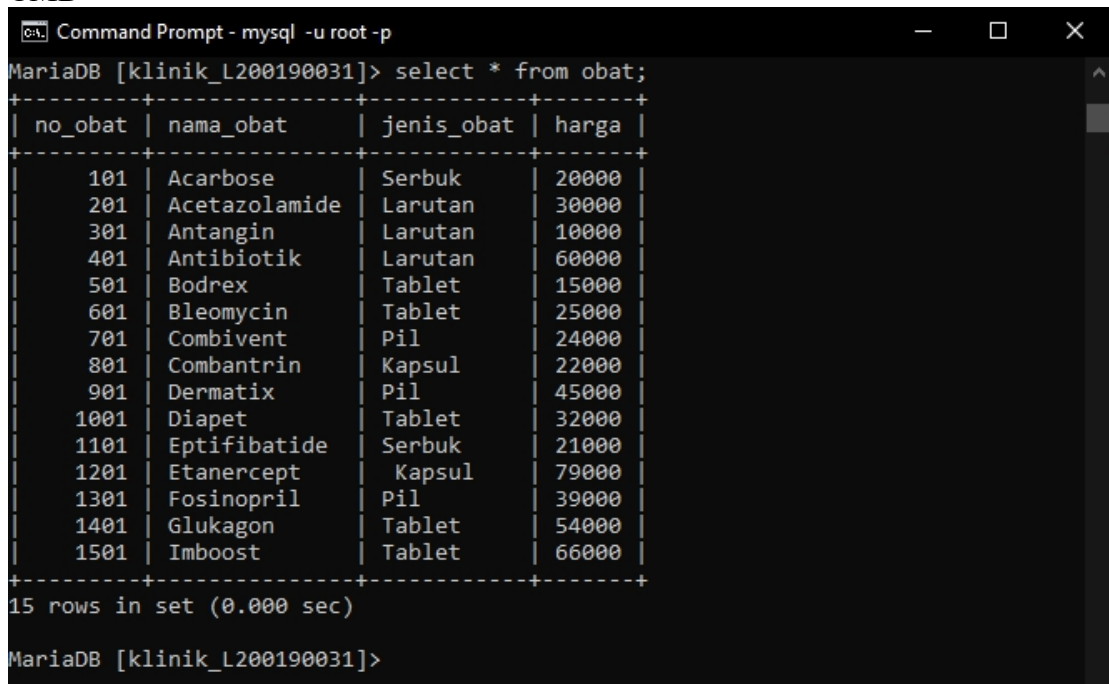
    records_to_insert = [(101, 'Acarbose', 'Serbuk', 20000),
        (201, 'Acetazolamide', 'Larutan', 30000),
        (301, 'Antangin', 'Larutan', 10000),
        (401, 'Antibiotik', 'Larutan', 60000),
        (501, 'Bodrex', 'Tablet', 15000),
        (601, 'Bleomycin', 'Tablet', 25000),
        (701, 'Combivent', 'Pil', 24000),
        (801, 'Combantrin', 'Kapsul', 22000),
        (901, 'Dermatix', 'Pil', 45000),
        (1001, 'Diapet', 'Tablet', 32000),
        (1101, 'Eptifibatide', 'Serbuk', 21000),
        (1201, 'Etanercept', 'Kapsul', 79000),
        (1301, 'Fosinopril', 'Pil', 39000),
        (1401, 'Glukagon', 'Tablet', 54000),
        (1501, 'Imboost', 'Tablet', 66000)]

    cursor = connection.cursor()
    cursor.executemany(mySql_insert_query, records_to_insert)
    connection.commit()
    print(cursor.rowcount, "Record inserted successfully")

except mysql.connector.Error as error:
    print("Failed to insert record into MySQL table {}".format(error))

finally:
    if connection.is_connected():
        cursor.close()
        connection.close()
        print("MySQL connection is closed")
```

## CMD



The image shows a 'Command Prompt - mysql -u root -p' window. It displays the output of a SQL query: 'select \* from obat;'. The result is a table with 15 rows and 4 columns: no\_obat, nama\_obat, jenis\_obat, and harga. The data matches the records\_to\_insert list from the Python code. Below the table, it says '15 rows in set (0.000 sec)'. The prompt 'MariaDB [klinik\_L200190031]>' is visible at the bottom.

```
MariaDB [klinik_L200190031]> select * from obat;
+-----+-----+-----+-----+
| no_obat | nama_obat | jenis_obat | harga |
+-----+-----+-----+-----+
| 101 | Acarbose | Serbuk | 20000 |
| 201 | Acetazolamide | Larutan | 30000 |
| 301 | Antangin | Larutan | 10000 |
| 401 | Antibiotik | Larutan | 60000 |
| 501 | Bodrex | Tablet | 15000 |
| 601 | Bleomycin | Tablet | 25000 |
| 701 | Combivent | Pil | 24000 |
| 801 | Combantrin | Kapsul | 22000 |
| 901 | Dermatix | Pil | 45000 |
| 1001 | Diapet | Tablet | 32000 |
| 1101 | Eptifibatide | Serbuk | 21000 |
| 1201 | Etanercept | Kapsul | 79000 |
| 1301 | Fosinopril | Pil | 39000 |
| 1401 | Glukagon | Tablet | 54000 |
| 1501 | Imboost | Tablet | 66000 |
+-----+-----+-----+-----+
15 rows in set (0.000 sec)

MariaDB [klinik_L200190031]>
```



## resep

```
import mysql.connector
```

```
try:
```

```
    connection = mysql.connector.connect(user='root',database='klinik_L200190031')
```

```
    mySql_insert_query = """INSERT INTO resep (no_induk_dokterFK, no_pasienFK,
no_obatFK, keluhan, gejala, jenis_penyakit)
VALUES (%s, %s, %s, %s, %s, %s) """
```

```
records_to_insert = [(1, 10, 101,'Demam', 'Batuk Kering', 'Covid 19'),
(1, 20, 201,'Pusing', 'Mual dan Muntah', 'Vertigo'),
(2, 30, 301,'Mual saat makan', 'Sakit berlebihan diperut', 'Maag'),
(3, 40, 401,'Bersin', 'Demam', 'Flu'),
(4, 50, 501,'Sesak Nafas', 'Mati Rasa', 'Jantung'),
(5, 60, 601,'Demam', 'Bersin', 'Influenza'),
(6, 70, 101,'Benjol di Anus', 'Anus Sakit', 'Wasir'),
(7, 80, 301,'Perut Sakit', 'Feses Cair', 'Diare'),
(7, 90, 1001,'Mata Sakit', 'Badan Sakit', 'Kelelahan'),
(8, 100, 1101,'Nyeri Dada', 'Batuk', 'Asma'),
(9, 110, 101,'Sakit mata', 'Batuk Kering', 'Covid 19'),
(10, 120, 1301,'Demam', 'Mata berair', 'Hipermetropi'),
(11, 130, 1401,'Benjolan di tubuh', 'Gatal Gatal', 'Cacar Air'),
(12, 140, 1201,'Panas', 'Pusing', 'Demam'),
(13, 140, 1201,'Mulut Bau', 'Gigi Kuning', 'Karang gigi')]
```

```
cursor = connection.cursor()
cursor.executemany(mySql_insert_query, records_to_insert)
connection.commit()
print(cursor.rowcount, "Record inserted successfully")
```

```
except mysql.connector.Error as error:
```

```
    print("Failed to insert record into MySQL table {}".format(error))
```

```
finally:
```

```
    if connection.is_connected():
        cursor.close()
        connection.close()
        print("MySQL connection is closed")
```

```
IDLE Shell 3.9.5
```

---

```
File Edit Shell Debug Options Window Help
15 Record inserted successfully
MySQL connection is closed
>>>
===== RESTART: C:\Kuliah\
15 Record inserted successfully
MySQL connection is closed
>>>
===== RESTART: C:\Kuliah\
15 Record inserted successfully
MySQL connection is closed
>>>
===== RESTART: C:\Kuliah\
15 Record inserted successfully
MySQL connection is closed
>>>
===== RESTART: C:\Kuliah\
15 Record inserted successfully
MySQL connection is closed
>>>
===== RESTART: C:\Kuliah\
15 Record inserted successfully
MySQL connection is closed
>>>
===== RESTART: C:\Kuliah\
15 Record inserted successfully
MySQL connection is closed
>>>
===== RESTART: C:\Kuliah\
15 Record inserted successfully
MySQL connection is closed
>>>
```

---

```
*'klinik.py - C:\Kuliah\Pak SBD\UAS(klinik.py (3.9.5)*)'
```

---

```
File Edit Format Run Options Window Help
import mysql.connector

try:
    connection = mysql.connector.connect(user='root', database='klinik_L200190031')

    mySql_insert_query = """INSERT INTO resep (no_induk_dokterFK, no_pasienFK, no_obatFK, keluhan, gejala, jenis_penyakit)
        VALUES (%s, %s, %s, %s, %s, %s)"""

    records_to_insert = [(1, 10, 101, 'Demam', 'Batuk Kering', 'Covid 19'),
                        (1, 20, 201, 'Pusing', 'Mual dan Muntah', 'Vertigo'),
                        (2, 30, 301, 'Mual saat makan', 'Sakit berlebihan diperut', 'Maag'),
                        (3, 40, 401, 'Berairin', 'Demam', 'Flu'),
                        (4, 50, 501, 'Sesak Nafas', 'Mati Rasa', 'Jantung'),
                        (5, 60, 601, 'Demam', 'Bersin', 'Influenza'),
                        (6, 70, 101, 'Benjol di Anus', 'Anus Sakit', 'Wasir'),
                        (7, 80, 301, 'Perut Sakit', 'Feses Cair', 'Diare'),
                        (7, 90, 1001, 'Mata Sakit', 'Badan Sakit', 'Kelelahan'),
                        (8, 100, 1101, 'Nyeri Dada', 'Batuk', 'Asma'),
                        (9, 110, 101, 'Sakit mata', 'Batuk Kering', 'Covid 19'),
                        (10, 120, 1301, 'Demam', 'Mata berair', 'Hipermertropi'),
                        (11, 130, 1401, 'Benjolan di tubuh', 'Gatal Gatal', 'Cacar Air'),
                        (12, 140, 1201, 'Panau', 'Pusing', 'Demam'),
                        (13, 140, 1201, 'Mulut Bau', 'Gigi Kuning', 'Karang gigi')]

    cursor = connection.cursor()
    cursor.executemany(mySql_insert_query, records_to_insert)
    connection.commit()
    print(cursor.rowcount, "Record inserted successfully")

except mysql.connector.Error as error:
    print("Failed to insert record into MySQL table {}".format(error))

finally:
    if connection.is_connected():
        cursor.close()
        connection.close()
        print("MySQL connection is closed")
```

```

C:\ Command Prompt - mysql -u root -p
MariaDB [klinik_L200190031]> select * from resept;
+-----+-----+-----+-----+-----+-----+
| no_induk_dokterFK | no_pasienFK | no_obatFK | keluhan | gejala | jenis_penyakit |
+-----+-----+-----+-----+-----+-----+
| 1 | 10 | 101 | Demam | Batuk Kering | Covid 19 |
| 1 | 20 | 201 | Pusing | Mual dan Muntah | Vertigo |
| 2 | 30 | 301 | Mual saat makan | Sakit berlebihan diperut | Maag |
| 3 | 40 | 401 | Bersin | Demam | Flu |
| 4 | 50 | 501 | Sesak Nafas | Mati Rasa | Jantung |
| 5 | 60 | 601 | Demam | Bersin | Influenza |
| 6 | 70 | 101 | Benjol di Anus | Anus Sakit | Wasir |
| 7 | 80 | 301 | Perut Sakit | Feses Cair | Diare |
| 7 | 90 | 1001 | Mata Sakit | Badan Sakit | Kelelahan |
| 8 | 100 | 1101 | Nyeri Dada | Batuk | Asma |
| 9 | 110 | 101 | Sakit mata | Batuk Kering | Covid 19 |
| 10 | 120 | 1301 | Demam | Mata berair | Hipermetropi |
| 11 | 130 | 1401 | Benjolan di tubuh | Gatal Gatal | Cacar Air |
| 12 | 140 | 1201 | Panas | Pusing | Demam |
| 13 | 140 | 1201 | Mulut Bau | Gigi Kuning | Karang gigi |
+-----+-----+-----+-----+-----+-----+
15 rows in set (0.000 sec)

```

### **pasien\_has\_obat**

```
import mysql.connector
```

```
try:
```

```
    connection = mysql.connector.connect(user='root',database='klinik_L200190031')
```

```
    mySql_insert_query = """INSERT INTO pasien_has_obat (no_pasienFK,  
no_obatFK)  
VALUES (%s, %s) """
```

```
    records_to_insert = [(10,101),  
                          (20,201),  
                          (30,301),  
                          (40,401),  
                          (50,501),  
                          (60,601),  
                          (70,101),  
                          (80,301),  
                          (90,1001),  
                          (100,1101),  
                          (110,101),  
                          (120,1301),  
                          (130,1401),  
                          (140,1201),  
                          (140,1201)]
```

```
    cursor = connection.cursor()  
    cursor.executemany(mySql_insert_query, records_to_insert)  
    connection.commit()  
    print(cursor.rowcount, "Record inserted successfully")
```

```
except mysql.connector.Error as error:
```

```
    print("Failed to insert record into MySQL table {}".format(error))
```

```
finally:
```

```
    if connection.is_connected():  
        cursor.close()  
        connection.close()  
        print("MySQL connection is closed")
```

[illegible]

```

C:\> Command Prompt - mysql -u root -p
MariaDB [klinik_L200190031]> select * from pasien_has_obat;
+-----+-----+
| no_pasienFK | no_obatFK |
+-----+-----+
|          10 |         101 |
|          20 |         201 |
|          30 |         301 |
|          40 |         401 |
|          50 |         501 |
|          60 |         601 |
|          70 |         101 |
|          80 |         301 |
|          90 |        1001 |
|         100 |        1101 |
|         110 |         101 |
|         120 |        1301 |
|         130 |        1401 |
|         140 |        1201 |
|         140 |        1201 |
+-----+-----+
15 rows in set (0.000 sec)

```

3. Buatlah join query yang bisa menampilkan nama pasien, jenis penyakit, nama dokter, dan obat yang diberikan!

#### Query:

```
select nama_pasien, jenis_penyakit, nama_dokter, nama_obat from pasien inner join
resep on pasien.no_pasien = resep.no_pasienFK inner join dokter on
resep.no_induk_dokterFK = dokter.no_induk_dokter inner join obat on
resep.no_obatFK = obat.no_obat;
```

#### Output:

```
Command Prompt - mysql -u root -p
MariaDB [klinik_L200190031]> select nama_pasien, jenis_penyakit, nama_dokter, nama_obat from pasien inner join
resep on pasien.no_pasien = resep.no_pasienFK inner join dokter on resep.no_induk_dokterFK =
dokter.no_induk_dokter inner join obat on resep.no_obatFK = obat.no_obat;
+-----+-----+-----+-----+
| nama_pasien | jenis_penyakit | nama_dokter | nama_obat |
+-----+-----+-----+-----+
| Dodit       | Covid 19       | Daffa       | Acarbose  |
| Ajie        | Vertigo        | Daffa       | Acetazolamide |
| Eko         | Maag           | Putra       | Antangin  |
| Tyas        | Flu            | Alwansyah   | Antibiotik |
| Dian        | Jantung       | Luthfi      | Bodrex    |
| Doni        | Influenza      | Akbar       | Bleomycin |
| Rio         | Wasir         | Taufik      | Acarbose  |
| Andi        | Diare          | Hidayat     | Antangin  |
| Reza        | Kelelahan     | Hidayat     | Diapet    |
| Siti        | Asma           | Yudha       | Eptifibatide |
| Nur         | Covid 19       | Rama        | Acarbose  |
| Indah       | Hipermetropi  | Fajri       | Fosinopril |
| Agus        | Cacar Air      | Dimas       | Glukagon  |
| Bayu        | Demam          | Dini        | Etanercept |
| Bayu        | Karang gigi    | Sekar       | Etanercept |
+-----+-----+-----+-----+
15 rows in set (0.001 sec)

MariaDB [klinik_L200190031]>
```

4. Buatlah query yang bisa menampilkan nama pasien dan daftar obat yang digunakan oleh pasien tersebut serta harga total yang harus dibayarkan oleh pasien!

**Query:**

```
select pasien.nama_pasien, obat.nama_obat, obat.harga from pasien inner join
pasien_has_obat on pasien_has_obat.no_pasienFK = pasien.no_pasien inner join obat
on pasien_has_obat.no_obatFK = obat.no_obat;
```

**Output:**

```
Command Prompt - mysql -u root -p
ma_obat, obat.harga from pasien inner join pasien_has_obat on p
pasien_has_obat.no_pasienFK = pasien.no_pasien inner join obat o
n pasien_has_obat.no_obatFK = obat.no_obat;
+-----+-----+-----+
| nama_pasien | nama_obat | harga |
+-----+-----+-----+
| Dodit       | Acarbose  | 20000 |
| Ajie        | Acetazolamide | 30000 |
| Eko         | Antangin  | 10000 |
| Tyas        | Antibiotik | 60000 |
| Dian        | Bodrex    | 15000 |
| Doni        | Bleomycin | 25000 |
| Rio         | Acarbose  | 20000 |
| Andi        | Antangin  | 10000 |
| Reza        | Diapet    | 32000 |
| Siti        | Eptifibatide | 21000 |
| Nur         | Acarbose  | 20000 |
| Indah       | Fosinopril | 39000 |
| Agus        | Glukagon  | 54000 |
| Bayu        | Etanercept | 79000 |
| Bayu        | Etanercept | 79000 |
+-----+-----+-----+
15 rows in set (0.000 sec)

MariaDB [klinik_L200190031]>
```

5. Buatlah query beserta sub query yang dapat menampilkan nama pasien yang mengkonsumsi obat paling banyak serta memiliki total harga obat yang paling tinggi!

```
select pasien.nama_pasien as "Nama Pasien", SUM(obat.harga) as "Total Harga
Obat", COUNT(obat.nama_obat) as "Jumlah Obat" from pasien inner join
pasien_has_obat on pasien_has_obat.no_pasienFK = pasien.no_pasien inner join obat
on pasien_has_obat.no_obatFK = obat.no_obat where obat.harga = (SELECT
MAX(harga) from obat);
```

```
Command Prompt - mysql -u root -p
MariaDB [klinik_L200190031]> select pasien.nama_pasien as "Nama Pasien", SUM(obat.harga) as "
Total Harga Obat", COUNT(obat.nama_obat) as "Jumlah Obat" from pasien inner join pasien_has_o
bat on pasien_has_obat.no_pasienFK = pasien.no_pasien inner join obat on pasien_has_obat.no_o
batFK = obat.no_obat where obat.harga = (SELECT MAX(harga) from obat);
+-----+-----+-----+
| Nama Pasien | Total Harga Obat | Jumlah Obat |
+-----+-----+-----+
| Bayu        | 158000           | 2           |
+-----+-----+-----+
1 row in set (0.001 sec)

MariaDB [klinik_L200190031]>
```