PROGRAM STUDI TEKNIK INFORMATIKA
FAKULTAS TEKNIK
UNIVERSITAS PELITA BANGSA

LEMBAR JAWABAN

Mata Kuliah   : SISTEM BASIS DATA
Dosen Pengampu   : M. NAJAMUDDIN DWI MIHARJA, S.Kom, M.kom
Program Studi/Semester   : TEKNIK INFORMATIKA/ SEMESTER 4
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Tugas 6

Soal.
1. Masuk ke databse adminklinik
2. Lakukan proses backup dan recovery dengan sql dari database tugas seblumnya !
3. Lakukan proses backup dan recovery dengan sqldump dari database tugas seblumnya !
4. Tulisakan script cron job untuk melakukan backup otomatis setiap hari minggu jam 12 malam !
5. Buat laporanya dan kirimkan di form tugas 6

Jawab :
- mysql -u adminklinik -p
- ********* (ketikan password)
- show databases;

BACKUP & RECOVERY DENGAN SQL

```
C:\WINDOWS\system32\cmd.exe - mysql  -u adminklinik -p

C:\xampp\mysql\bin>mysql -u adminklinik -p
Enter password: *********
Welcome to the MariaDB monitor.  Commands end with ; or \g.
Your MariaDB connection id is 9
Server version: 10.4.22-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 |
| klinik_312010098   |
| mysql              |
| performance_schema |
| phpmyadmin         |
| test               |
| tiani_312010098    |
+--------------------+
7 rows in set (0.001 sec)

MariaDB [(none)]>
```

- use klinik_312010098;
- show tables;

```
C:\WINDOWS\system32\cmd.exe - mysql  -u adminklinik -p                              —    □    ×

MariaDB [(none)]> use klinik_312010098
Database changed
MariaDB [klinik_312010098]> show tables;
+---------------------------+
| Tables_in_klinik_312010098 |
+---------------------------+
| berobat                   |
| dokter                    |
| obat                      |
| pasien                    |
| resep_obat                |
| users                     |
+---------------------------+
6 rows in set (0.001 sec)

MariaDB [klinik_312010098]>
```

- lock table obat write;
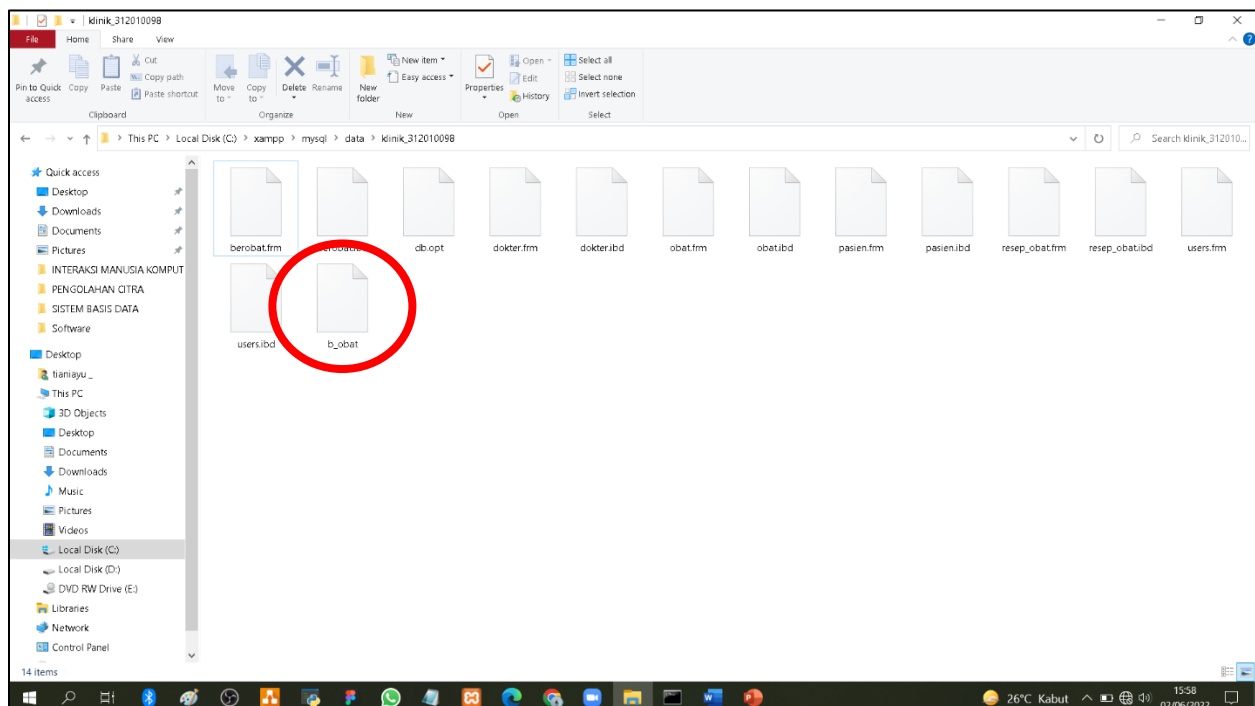
```
Select C:\WINDOWS\system32\cmd.exe - mysql  -u adminklinik -p                        —    □    ×

MariaDB [klinik_312010098]> lock table obat write;
Query OK, 0 rows affected (0.013 sec)
```

- select * into outfile 'b_obat' from obat;

```
Select C:\WINDOWS\system32\cmd.exe - mysql  -u adminklinik -p                        —    □    ×

MariaDB [klinik_312010098]> select * into outfile 'b_obat' from obat;
Query OK, 5 rows affected (0.007 sec)

MariaDB [klinik_312010098]>
```

- This PC – Local Disk (C:) – xampp – mysql – data – klinik_312010098

- select * from obat;
- delete from obat;

```
C:\WINDOWS\system32\cmd.exe - mysql -u adminklinik -p                    —    □    ×

MariaDB [klinik_312010098]> select * from obat;
+---------+------------+
| id_obat | nama_obat  |
+---------+------------+
|    1111 | Sanmol     |
|    1112 | Panadol    |
|    1113 | FG_Troches |
|    1114 | Rohto_Eye  |
|    1115 | Ibuprofen  |
+---------+------------+
5 rows in set (0.000 sec)

MariaDB [klinik_312010098]> delete from obat;
Query OK, 5 rows affected (0.002 sec)

MariaDB [klinik_312010098]>
```

- select * from obat; (after di delete data sudah kosong)

```
C:\WINDOWS\system32\cmd.exe - mysql -u adminklinik -p                    —    □    ×

MariaDB [klinik_312010098]> select * from obat;
Empty set (0.000 sec)

MariaDB [klinik_312010098]>
```

- load data infile 'b_obat' into table obat;
- select * from obat; (after di restore data sudah ada kembali)

```
C:\WINDOWS\system32\cmd.exe - mysql -u adminklinik -p                    —    □    ×

MariaDB [klinik_312010098]> load data infile 'b_obat' into table obat;
Query OK, 5 rows affected (0.005 sec)
Records: 5  Deleted: 0  Skipped: 0  Warnings: 0

MariaDB [klinik_312010098]> select * from obat;
+---------+------------+
| id_obat | nama_obat  |
+---------+------------+
|    1111 | Sanmol     |
|    1112 | Panadol    |
|    1113 | FG_Troches |
|    1114 | Rohto_Eye  |
|    1115 | Ibuprofen  |
+---------+------------+
5 rows in set (0.000 sec)

MariaDB [klinik_312010098]>
```

Ketika dilakukan **delete from nama table;** muncul seperti dibawah ini. Dikarenakan foreign keynya aktif, dan yang harus di lakukan adalah menghapus foreign key terlebih dahulu. Berikut caranya :

Melihat comment yang keluar diatas berada pada table **resep_obat**, jadi ketikan **show create table resep_obat;**

Ketikan **alter table obat drop foreign key resep_obat_ibfk_2;** Dan foreign key sudah terhapus. Kemudian bisa melakukan delete isi table dengan mengetik : **delete from nama_table;**

```
Select C:\WINDOWS\system32\cmd.exe - mysql  -u adminklinik -p                    —    □    ×

MariaDB [klinik_312010098]> alter table resep_obat drop foreign key resep_obat_ibfk_2;
Query OK, 0 rows affected (0.008 sec)
Records: 0  Duplicates: 0  Warnings: 0

MariaDB [klinik_312010098]> show create table resep_obat;
+------------+----------------------------------------------------------------
----------------------------------------------------------------------------
----------------------------------------------------------------------------
----------------------------------------------------------+
| Table      | Create Table


                                               |
+------------+----------------------------------------------------------------
----------------------------------------------------------------------------
---------------------------------------------------------█--------------------
----------------------------------------------------------+
| resep_obat | CREATE TABLE `resep_obat` (
  `id_resep` int(11) NOT NULL,
  `id_berobat` int(11) DEFAULT NULL,
  `id_obat` int(11) DEFAULT NULL,
  PRIMARY KEY (`id_resep`),
  KEY `id_berobat` (`id_berobat`),
  KEY `id_obat` (`id_obat`),
  CONSTRAINT `resep_obat_ibfk_1` FOREIGN KEY (`id_berobat`) REFERENCES `berobat` (`id_berobat`)
) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4 |
+------------+----------------------------------------------------------------
----------------------------------------------------------------------------
----------------------------------------------------------------------------
----------------------------------------------------------+
1 row in set (0.000 sec)
```

- mysqldump -u adminklinik -p klinik_312010098 > backup2.sql

```
C:\WINDOWS\system32\cmd.exe                                    —     □     ×

C:\xampp\mysql\bin>mysqldump -u adminklinik -p klinik_312010098 > backup2.sql
Enter password: *********

C:\xampp\mysql\bin>
```

- mysqldump -u adminklinik -p klinik_312010098 < C:\xampp\mysql\bin\backup2.sql

```
C:\WINDOWS\system32\cmd.exe                                    —     □     ×

C:\xampp\mysql\bin>mysqldump -u adminklinik -p klinik_312010098 < C:\xampp\mysql\bin\backup2.sql
Enter password: *********
-- MariaDB dump 10.19  Distrib 10.4.22-MariaDB, for Win64 (AMD64)
--
-- Host: localhost    Database: klinik_312010098
-- ------------------------------------------------------
-- Server version       10.4.22-MariaDB

/*!40101 SET @OLD_CHARACTER_SET_CLIENT=@@CHARACTER_SET_CLIENT */;
/*!40101 SET @OLD_CHARACTER_SET_RESULTS=@@CHARACTER_SET_RESULTS */;
/*!40101 SET @OLD_COLLATION_CONNECTION=@@COLLATION_CONNECTION */;
/*!40101 SET NAMES utf8mb4 */;
/*!40103 SET @OLD_TIME_ZONE=@@TIME_ZONE */;
/*!40103 SET TIME_ZONE='+00:00' */;
/*!40014 SET @OLD_UNIQUE_CHECKS=@@UNIQUE_CHECKS, UNIQUE_CHECKS=0 */;
/*!40014 SET @OLD_FOREIGN_KEY_CHECKS=@@FOREIGN_KEY_CHECKS, FOREIGN_KEY_CHECKS=0 */;
/*!40101 SET @OLD_SQL_MODE=@@SQL_MODE, SQL_MODE='NO_AUTO_VALUE_ON_ZERO' */;
/*!40111 SET @OLD_SQL_NOTES=@@SQL_NOTES, SQL_NOTES=0 */;

--
```

- Dump complate

```
C:\WINDOWS\system32\cmd.exe                                    —     □     ×
--
-- Dumping data for table `users`
--

LOCK TABLES `users` WRITE;
/*!40000 ALTER TABLE `users` DISABLE KEYS */;
INSERT INTO `users` VALUES (1111,'Budi05','21235','Budi Susilo'),(1112,'ZaniCans','13254','Zani Cantikas
ari'),(1113,'Joko15','56231','Joko Trio'),(1114,'Tari_s','85214','Tari Putri'),(1115,'FajarQ123','64521'
,'Fajar Ahmad');
/*!40000 ALTER TABLE `users` ENABLE KEYS */;
UNLOCK TABLES;
/*!40103 SET TIME_ZONE=@OLD_TIME_ZONE */;

/*!40101 SET SQL_MODE=@OLD_SQL_MODE */;
/*!40014 SET FOREIGN_KEY_CHECKS=@OLD_FOREIGN_KEY_CHECKS */;
/*!40014 SET UNIQUE_CHECKS=@OLD_UNIQUE_CHECKS */;
/*!40101 SET CHARACTER_SET_CLIENT=@OLD_CHARACTER_SET_CLIENT */;
/*!40101 SET CHARACTER_SET_RESULTS=@OLD_CHARACTER_SET_RESULTS */;
/*!40101 SET COLLATION_CONNECTION=@OLD_COLLATION_CONNECTION */;
/*!40111 SET SQL_NOTES=@OLD_SQL_NOTES */;

-- Dump completed on 2022-06-02 17:36:17

C:\xampp\mysql\bin>
```

SCRIPT CRON

07**7 mysql -u adminklinik -p 312010098 klinik_312010098 > backup2.sql