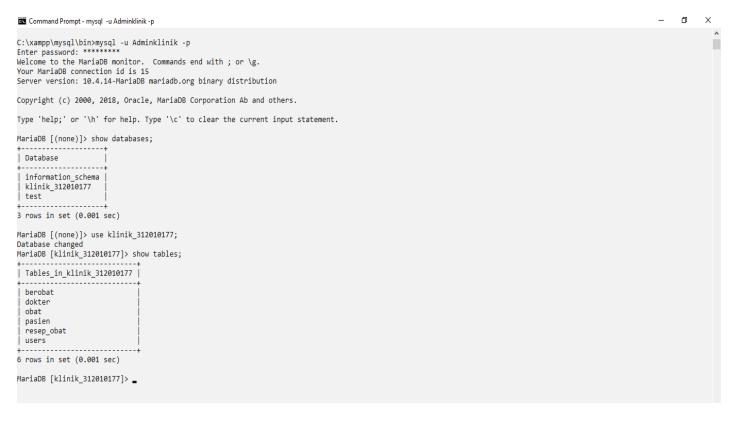
# 1. Masuk ke DB klinik\_NIM

Karena User Adminklinik belum memiliki hak akses LOCK TABLE dan hak akses FILE, maka user Adminklinik terlebih dahulu diberi hak akses untuk menggunakan perintah tersebut.

## 1) Hak Akses LOCK TABLE

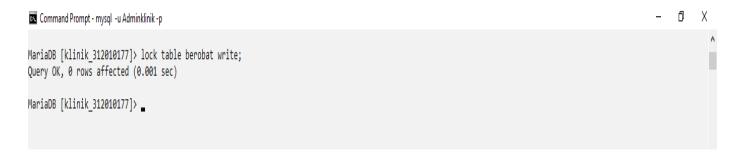


Masuk ke DB klinik\_312010177 dengan user Adminklinik



# 2. Lakukan proses backup dan recovery dengan sql dari DB klinik\_312010177

- 1) Lakukan proses penguncian table
  - Tabel Berobat



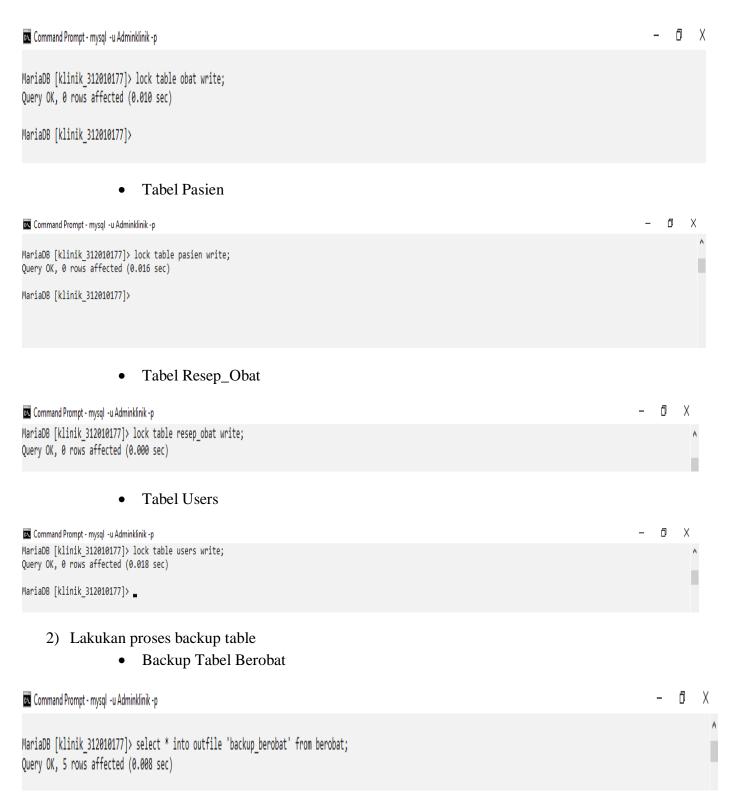
#### Tabel Dokter

```
Command Prompt- mysql -u Adminklinik-p

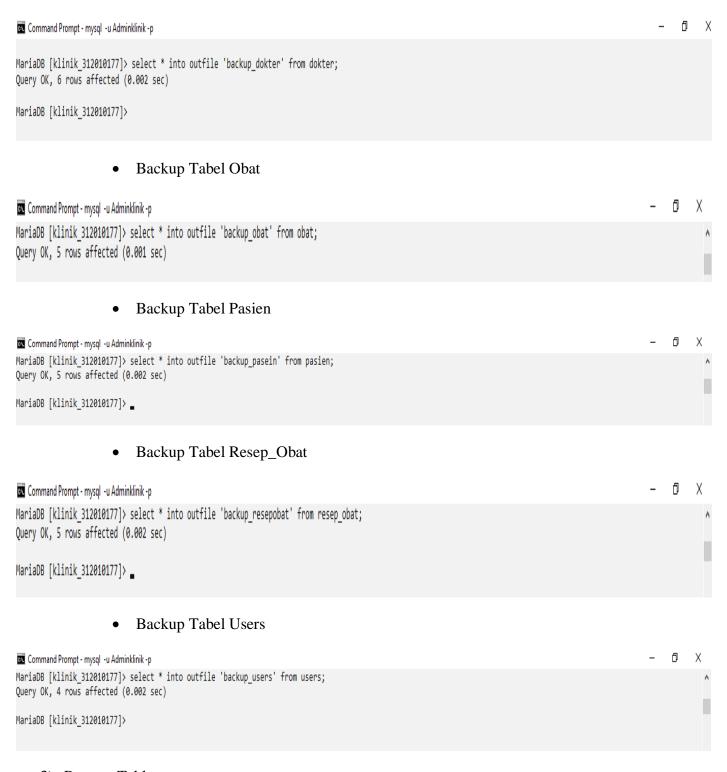
MariaDB [klinik_312010177]> lock table dokter write;
Query OK, 0 rows affected (0.000 sec)

MariaDB [klinik_312010177]>
```

• Tabel Obat



Backup Tabel Dokter



#### 3) Restore Table

• Restore Tabel Berobat

■ Command Prompt - mysql -u Adminklinik -p

MariaDB [klinik\_312010177]> delete from berobat; Query OK, 5 rows affected (0.007 sec)

MariaDB [klinik\_312010177]> select \*from berobat; Empty set (0.000 sec)

MariaDB [klinik\_312010177]> load data infile 'backup\_berobat' into table berobat;

Query OK, 5 rows affected (0.017 sec)

Records: 5 Deleted: 0 Skipped: 0 Warnings: 0

MariaDB [klinik\_312010177]> select\* from berobat;

	id berobat	id pasien	+   id dokter	+   tgl berobat	keluhan pasien	hasil diagnosa	+   penatalaksanaan
				+			
	12345	11111	300437	2022-04-30	Demam >1 minggu, diare	Demam Tifoid	Medis
	12346	11112	300438	2022-04-25	Heartburn, mual, nyeri ulu hati	Asam Lambung	Medis
	12347	11113	300439	2022-04-13	Demam tinggi, BAB cair disertai darah, lemas, nyeri perut	Diare Cair Akut	Keperawatan
	12348	11114	300440	2022-04-20	Demam, menggigil, sakit kepala	Influenza	Medis
	12349	11115	300441	2022-04-22	Demam tinggi, sesak napas, pilek, batuk kering	Covid 19	Keperawatan
4				+			

5 rows in set (0.000 sec)

MariaDB [klinik\_312010177]>

#### • Restore Tabel Dokter

© Command Prompt - mysql -u Adminklinik -p − □ X

MariaDB [klinik\_312010177]> delete from obat;

ERROR 1451 (23000): Cannot delete or update a parent row: a foreign key constraint fails (`klinik\_312010177`.`resep\_obat`, CONSTRAINT `id\_obat` FOREIGN KEY (`id\_obat`)
REFERENCES `obat` (`id\_obat`))

```
- 🗇 X
Command Prompt - mysql -u Adminklinik -p
MariaDB [klinik_312010177]> delete from dokter;
ERROR 1451 (23000): Cannot delete or update a parent row: a foreign key constraint fails (`klinik_312010177`.`berobat`, CONSTRAINT `id_dokter` FOREIGN KEY (`id_dokter`)
REFERENCES `dokter` (`id_dokter`))
MariaDB [klinik_312010177]> alter table berobat drop foreign key id_dokter;
Query OK, 0 rows affected (0.016 sec)
Records: 0 Duplicates: 0 Warnings: 0
MariaDB [klinik_312010177]> delete from dokter;
Query OK, 6 rows affected (0.004 sec)
MariaDB [klinik_312010177]> select* from dokter;
Empty set (0.000 sec)
MariaDB [klinik_312010177]> load data infile 'backup_dokter' into table dokter;
Query OK, 6 rows affected (0.004 sec)
Records: 6 Deleted: 0 Skipped: 0 Warnings: 0
MariaDB [klinik_312010177]> select* from dokter;
4----
| id_dokter | nama_dokter
   300437 | dr.Fauzi
    300438 | dr.Sendi Jayanti
    300439 dr.Ryan Indra
    300440 | dr.Dina Nurmala Sari
    300441 | dr.Rifian Arnanda
300442 | dr.Sugiyanto
6 rows in set (0.000 sec)
MariaDB [klinik_312010177]>
```

## • Restore Table Obat

```
MariaDB [klinik_312010177]> alter table resep_obat drop foreign key id_obat;
Query OK, 0 rows affected (0.014 sec)
Records: 0 Duplicates: 0 Warnings: 0
MariaDB [klinik_312010177]> delete from obat;
ERROR 1100 (HY000): Table 'obat' was not locked with LOCK TABLES
MariaDB [klinik_312010177]> lock table obat write;
Query OK, 0 rows affected (0.000 sec)
MariaDB [klinik_312010177]> delete from obat;
Query OK, 5 rows affected (0.003 sec)
MariaDB [klinik_312010177]> select *from obat;
Empty set (0.000 sec)
MariaDB [klinik_312010177]> load data infile 'backup_obat' into table obat;
Query OK, 5 rows affected (0.004 sec)
Records: 5 Deleted: 0 Skipped: 0 Warnings: 0
MariaDB [klinik_312010177]> select * from obat;
| id_obat | nama_obat |
4----
     1001 | Amoxilin
    1002 | Antasida
     1003 | Paracetamol
     1004 | Oralit
   1005 | Zinc 20 mg
5 rows in set (0.000 sec)
MariaDB [klinik 312010177]>
```

#### Restore Table Pasien

```
Command Prompt - mysql -u Adminklinik -p
                                                                                                                                                                                                          MariaDB [klinik_312010177]> delete from pasien;
ERROR 1451 (23000): Cannot delete or update a parent row: a foreign key constraint fails (`klinik_312010177`.`berobat`, CONSTRAINT `id_pasien` FOREIGN KEY (`id_pasien`) REFERENCES `pasien` (`id_pasien`))
MariaDB [klinik_312010177]> alter table berobat drop foreign key id_pasien;
ERROR 1099 (HY000): Table 'berobat' was locked with a READ lock and can't be updated
MariaDB [klinik_312010177]> lock table berobat write;
Query OK, 0 rows affected (0.000 sec)
MariaDB [klinik_312010177]> alter table berobat drop foreign key id_pasien;
Query OK, 0 rows affected (0.013 sec)
Records: 0 Duplicates: 0 Warnings: 0
MariaDB [klinik_312010177]> delete from pasien;
ERROR 1100 (HY000): Table 'pasien' was not locked with LOCK TABLES
MariaDB [klinik_312010177]> lock table pasien write;
Query OK, 0 rows affected (0.000 sec)
MariaDB [klinik_312010177]> delete from pasien;
Query OK, 5 rows affected (0.007 sec)
MariaDB [klinik_312010177]> select *from pasien;
Empty set (0.000 sec)
MariaDB [klinik_312010177]> load data infile 'backup_pasien' into table pasien;
ERROR 29 (HY000): File 'C:\xampp\mysql\data\klinik_312010177\backup_pasien' not found (Errcode: 2 "No such file or directory")
MariaDB [klinik_312010177]> load data infile 'backup_pasein' into table pasien;
Query OK, 5 rows affected (0.005 sec)
Records: 5 Deleted: 0 Skipped: 0 Warnings: 0
MariaDB [klinik_312010177]> select* from pasien;
| id_pasien | nama_pasien
                                          | jenis kelamin | umur |
                 Pangeran Antasari
Jendral Soedirman
       11111
                                           | Pria
                                                                    70
                                             Pria
       11112
                                                                    50
       11113 İ
                 Raden Ajeng Kartini
                                             Wanita
                                                                    40
                 Ade Irma Suryani
       11114
                                             Wanita
                                                                    10
                                           Pria
       11115 | Pierre Tendean
                                                                   20
5 rows in set (0.000 sec)
MariaDB [klinik_312010177]>
```

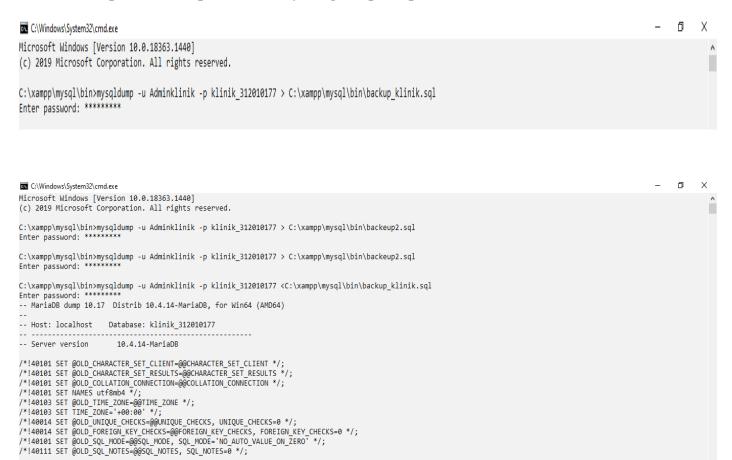
## • Restore Table Resep\_Obat



#### • Restore Table Users



## 3. Lakukan proses backup dan recovery dengan sqldump dari DB klinik\_NIM



 ⊠ C:\Windows\System32\cmd.exe

 ─ □ X

```
DROP TABLE IF EXISTS 'berobat';

"!40810 SET [6saved_cs_client = #@character_set_client */;

"!40810 SET [6saved_cs_client = utf8 */;

CREATE TABLE 'berobat' [

id berobat' Int(1) NOT NULL AUTO_INCEMENT,

id pasien' int(5) DEFAULT NULL,

'id jassien' int(5) DEFAULT NULL,

'keluhan_pasien' varchar(200) DEFAULT NULL,

'keluhan_pasien' varchar(200) DEFAULT NULL,

'hasil_diagnosa' varchar(200) DEFAULT NULL,

'hasil_diagnosa' varchar(200) DEFAULT NULL,

'penatalaksanaan' enum('Nedis', 'Keperawatan') DEFAULT NULL,

PRIMARY KEY ('id berobat'),

KEY id dokter' ('id dokter),

KEY id dokter' ('id dokter),

KEY id nome in the 'id dokter'),

LOCK TABLES 'berobat' NRITE;

'!40000 ALTER TABLE 'berobat' Disable KEYS */;

INSERT INTO 'berobat' Value's (12345,1111,300439,'2022-04-30','Demam >1 minggu, diare','Demam Tifoid','Nedis'),(12346,11112,300438,'2022-04-25','Heartburn, mual, nyeri

ulu hati', 'Asam Lambung', 'Nedis'),(12347,11113,300439,'2022-04-31','Demam tinggi, BAB cair disertai darah, lemas, nyeri perut', 'Diare Cair Akut', 'Keperawatan'),(12348,1

114,3004409,'2022-04-22','Demam, menggigil, sakit kepala','Influenza','Medis'),(12349,11115,300441,'2022-04-22','Demam tinggi, sesak napas, pilek, batuk kering','Covid

19', '140000 ALTER TABLE 'berobat' EMABLE KEYS */;

UNLOCK TABLES;
```

```
COWINDOWNSystem32cmdese

Table structure for table 'dokter'

Table structure for table 'dokter'

Table Structure for table 'dokter'

Table SET (saved_cs_client = @@character_set_client */;

Table SET (saved_cs_client = @@character_set_client */;

Table SET (saved_cs_client = # *);

CREATE TABLE 'dokter' (

Id_dokter' varchar(s0) DEFAULT NULL,

DEMINE_TABLES 'dokter' (

DEMINE_TABLES 'dokter' NBITE;

Table SET character_set_client = @saved_cs_client */;

Table SET (saved_cs_client = @saved_cs_client */;

Table SET (saved_cs_client = @saved_cs_client */;

Table SET (saved_cs_client */;

Table SET (sav
```

```
C:\Windows\System32\cmd.exe
                                                                                                                                                                                                                                                                                                                                                                      a
                                                                                                                                                                                                                                                                                                                                                                                  X
  -- Dumping data for table `obat`
                                                                                                                                                                                                                                                                                                                                                                                         LOCK TABLES `obat` WRITE;

/*!40000 ALTER TABLE `obat` DISABLE KEYS */;

INSERT INTO `obat` VALUES (1001,'Amoxilin'),(1002,'Antasida'),(1003,'Paracetamol'),(1004,'Oralit'),(1005,'Zinc 20 mg');

/*!40000 ALTER TABLE `obat` ENABLE KEYS */;
 UNLOCK TABLES:
  -- Table structure for table `pasien`
 DROP TABLE IF EXISTS `pasien`;
= @@character_set_client */;
 ) ENGINE=InnoDB AUTO_INCREMEN1=11110 DEFAUL: GIRLLS: /*!40101 SET character_set_client = @saved_cs_client */;
 -- Dumping data for table `pasien`
 LOCK TABLES `pasien` WRITE;

/*!40000 ALTER TABLE `pasien` DISABLE KEYS */;

INSERT INTO `pasien` VALUES (11111, 'Pangeran Antasari', 'Pria',70),(11112, 'Jendral Soedirman', 'Pria',50),(11113, 'Raden Ajeng Kartini', 'Wanita',40),(11114, 'Ade Irma Surya ni', 'Wanita',10),(11115, 'Pierre Tendean', 'Pria',20);

/*!40000 ALTER TABLE `pasien` ENABLE KEYS */;
 UNLOCK TABLES;
  C:\Windows\System32\cmd.exe
  --
-- Table structure for table `resep_obat`
DROP TABLE IF EXISTS `resep_obat`;

/*!40101 SET @saved_cs_client = @@character_set_client */;

/*!40101 SET character_set_client = utf8 */;

CREATE TABLE `resep_obat` (
    id_resep` int(11) NOT NULL AUTO_INCREMENT,
    id_benobat` int(11) DEFAULT NULL,
    id_obat` int(5) DEFAULT NULL,
    PRIMARY KEY ('id_resep'),
    KEY `id_berobat` ('id_berobat`),
    KEY 'id_obat` ('id_obat`)
)    PNGINE-InnoD8 AUTO_INCREMENT=67897 DEFAULT CHARSET=utf8mb4;

/*!40101 SET character_set_client = @saved_cs_client */;
  -- Dumping data for table `resep_obat
 LOCK TABLES `resep_obat` WRITE;

/*!40000 ALTER TABLE `resep_obat` DISABLE KEYS */;

INSERT INTO `resep_obat` VALUES (67890,12345,1003),(67893,12346,1002),(67894,12347,1004),(67895,12348,1001),(67896,12349,1005);

/*!40000 ALTER TABLE `resep_obat` ENABLE KEYS */;
 -- Table structure for table `users`
DROP TABLE IF EXISTS `users';

/*!40101 SET @saved_cs_client = @@character_set_client */;

/*!40101 SET character_set_client = utf8 */;

CREATE TABLE `users' (
    'id` int(5) NOT NULL AUTO_INCREMENT,
    username` varchar(28) NOT NULL,
    password' varchar(32) DEFAULT NULL,
    'nama_lengkap' varchar(40) NOT NULL,
    PRIMARY KEY ('id')
) ENGINE=InnoDB AUTO_INCREMENT=12348 DEFAULT CHARSET=utf8mb4;

/*!40101 SET character_set_client = @saved_cs_client */;
```

```
C:\text{Vandows\System32\cmd.ese} - \text{D} \text{ X} \\

\text{LOCK TABLES \ 'users' \ WRITE; \ '*|40000 \ ALTER TABLE \ 'users' \ DISABLE \ KEYS \ */; \\

\text{INSERT INTO 'users' \ VALUES \ (12344, \ 'marquezt', 'ghjkl', 'Marc \ Marquezt'), \ (12345, 'Valeyellow', 'asdfg', 'Valentino \ Rossi'), \ (12346, 'danivalle', 'qwert', 'Dani \ Valle'), \ (12347, 'F abioquartarano', 'yuiop', 'Fabio quartarano'); \ '*|40000 \ ALTER TABLE \ 'users' \ ENABLE \ KEYS \ */; \\

\text{UNLOCK TABLES;} \ '*|40103 \ SET \ TIME_ZONE=\(\text{BOLD_TIME_ZONE \ */;} \\

\text{'*|40103 SET TIME_ZONE=\(\text{BOLD_TIME_ZONE \ */;} \\

\text{'*|40014 SET UNIQUE_CHECKS=\(\text{BOLD_UNIQUE_CHECKS \ */;} \\

\text{'*|40014 SET UNIQUE_CHECKS=\(\text{BOLD_UNIQUE_CHECKS \ */;} \\

\text{'*|40014 SET UNIQUE_CHECKS=\(\text{BOLD_UNIQUE_CHECKS \ */;} \\

\text{'*|40015 SET CHARACTER SET CLEINT=\(\text{BOLD_CHARACTER_SET_CLEINT \ */;} \\

\text{'*|40011 SET COLLATION_CONNECTION=\(\text{OLD_COLLATION_CONNECTION \ */;} \\

\text{'*|40011 SET COLLATION_CONNECTION=\(\text{OLD_COLLATION_CONNECTION \ */;} \\

\text{'*|40011 SET COLLATION_CONNECTION=\(\text{OLD_COLLATION_CONNECTION \ */;} \\

\text{-- Dump completed on 2022-07-03 \ 4:32:48} \\

C:\text{\text{C:\text{xampp\mysql\bin>_a}}}
```

4. Tuliskan script cron job untuk melakukan backup otomatis setiap hari minggu jam 12 malam!

0 0 \* \* 0 mysqldump -u Adminklinik –p 312010177 klinik\_312010177 >backupDBklinik.sql