Task Databases Part 2

Make backup of your database using mysqldump

```
root@docker:~# mysqldump -uroot -p hospital > hospital_backup.sql
```

 We have all database hospital backup in hospital_backup.sql script.

Now delete table doctors:

```
mysql> show tables;
  cabinets
  department
  diagnos
  doctors
  medicines
  patients
  scedule
  scedule date
8 rows in set (0.00 sec)
mysql> drop table doctors;
Query OK, 0 rows affected (0.03 sec)
mysql> show tables;
  Tables in hospital
  cabinets
  department
  diagnos
  medicines
  patients
  scedule
  scedule date
  rows in set (0.00 sec)
```

Restore database from backup:

root@docker:~# mysgl -u root -p hospital < hospital backup.sgl Enter password: root@docker:~# mysql -uroot -p hospital Enter password: Reading table information for completion of table and column names You can turn off this feature to get a quicker startup with -A Welcome to the MySQL monitor. Commands end with ; or \g. Your MySOL connection id is 25 Server version: 5.7.39-Oubuntu0.18.04.2 (Ubuntu) Copyright (c) 2000, 2022, Oracle and/or its affiliates. Oracle is a registered trademark of Oracle Corporation and/or its affiliates. Other names may be trademarks of their respective owners. Type 'help;' or '\h' for help. Type '\c' to clear the current input statement. mysql> show tables; Tables in hospital cabinets department diagnos doctors medicines patients scedule scedule date rows in set (0.00 sec)

Restore database on AWS RDS from backup:

```
root@docker:~#
root@docker:~# mysql -u evgeniy -p -h my-database.chulzffoxjs5.eu-central-1.rds.amazonaws.com hospital < hospital_backup.sql
Enter password:
root@docker:~# |
```

Connect to AWS RDS MYSQL database with user which was created in AWS RDS

Console:

```
root@docker:~# mysql -u evgeniy -p -h my-database.chulzffoxjs5.eu-central-1.rds.amazonaws.com
Enter password:
Welcome to the MySQL monitor. Commands end with ; or \g.
Your MySQL connection id is 58
Server version: 5.7.39 Source distribution
Copyright (c) 2000, 2022, Oracle and/or its affiliates.
Oracle is a registered trademark of Oracle Corporation and/or its
affiliates. Other names may be trademarks of their respective
owners.
Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.
mysgl> show databases;
 Database
+----+
  information schema
  hospital
 innodb
  mysql
 performance schema
6 rows in set (0.04 sec)
mysql> select CURRENT USER();
 CURRENT USER()
  ______
  evgeniy@%
  row in set (0.04 sec)
```

Execute select operators in database on AWS RDS:

```
mysql> use hospital
Reading table information for completion of table and column names
You can turn off this feature to get a guicker startup with -A
Database changed
mvsql> show tables:
 Tables in hospital
 -----
 cabinets
 department
 diagnos
 doctors
 medicines
 patients
 scedule
 scedule date
 3 rows in set (0.04 sec)
mysql> select medicines name, medicine manufacturer, count(*) as ManufacturerCoun
t from medicines group by medicines name, medicine manufacturer;
 ______
 medicines_name | medicine_manufacturer | ManufacturerCount |
 Лідокаїн
                      Фармак
                                                             1 |
                  | Дарниця
3 rows in set (0.05 sec)
mysdl> select medicine manufacturer, count(*) as ManufacturerCount from medicines group by medicine manufacturer;
 medicine manufacturer | ManufacturerCount |
 Фармак
                                      1 1
2 rows in set (0.04 sec)
mysql> select medicine manufacturer, count(*) as ManufacturerCount from medicines group by medicine manufacturer having count(*)>1;
 medicine manufacturer | ManufacturerCount |
1 row in set (0.04 sec)
```

Create dump of mysql database on AWS RDS:

```
root@docker:~#
root@docker:~# mysqldump -uevgeniy -p -h my-database.chulzffoxjs5.eu-central-1.rds.amazonaws.com --set-gtid-purged=OFF hospital > backup_hospital_from_aws.sql
Enter password:
```