EPAM University Programs

DevOps L1 course

Database Administration

TASK DB1

PART 1

Creation database `shop` with tables `customers`, `products`, `delivery`

```
mysql> SHOW TABLES;
+------+
| Tables_in_shop |
+------+
| customers |
| delivery |
| products |
```

Filling in the tables and outputing content in different ways

```
mysql> INSERT INTO customers (name)

→ VALUES ('Bob');

Query OK, 1 row affected (0.00 sec)
```

- example of filling content in table

SELECT operator with *, WHERE, GROUP BY and ORDER BY

```
mysql> SELECT * FROM products;
+---+
| id | cost | name_product | mysql> SELECT * FROM products WHERE cost=15;
+---+
| 1 | 10 | apple | | id | cost | name_product | |
| 2 | 15 | orange | | +---+
| 3 | 20 | carrot | | 2 | 15 | orange | |
| 4 | 20 | potato | | 2 | 15 | orange | |
| 4 | rows in set (0.00 sec) | 1 row in set (0.00 sec)
```

```
mysql> SELECT COUNT(name_product), cost FROM products GROUP BY cost;
+------+
| COUNT(name_product) | cost |
+------+
| 1 | 10 |
| 1 | 15 |
| 2 | 20 |
+------+
3 rows in set (0.00 sec)
```

DDL, DML, DCL

DDL

DML

```
mysql> INSERT INTO products (name_product, cost) VALUES ("plum", 20);
Query OK, 1 row affected (0.00 sec)
mysql> DELETE FROM products WHERE cost=20;
Query OK, 1 row affected (0.00 sec)
```

DCL

```
mysql> CREATE USER 'bim2'@'localhost' IDENTIFIED BY 'root';
Query OK, 0 rows affected (0.04 sec)
mysql> GRANT ALL PRIVILEGES ON *.* TO 'bim2'@'localhost' WITH GRANT OPTION;
Query OK, 0 rows affected (0.01 sec)
```

Create a database of new users with different privileges. Connect to the database as a new user and verify that the privileges allow or deny certain actions.

```
mysql> DROP USER 'bim2'@'localhost';
Query OK, 0 rows affected (0.00 sec)

mysql> GRANT SELECT ON shop.* TO 'bim2'@'localhost';
Query OK, 0 rows affected (0.00 sec)

From bim

mysql> INSERT INTO customers (name) VALUE ('Bob2');
Query OK, 1 row affected (0.03 sec)
```

From bim2

```
mysql> INSERT INTO customers (name) VALUE (Bob2);
ERROR 1142 (42000): INSERT command denied to user 'bim2'@'localhost' for table 'customers'

mysql> SELECT * FROM customers;

+----+

| id | name |

+----+

1 | Bob |

| 2 | Bob2 |

+----+

2 rows in set (0.00 sec)
```

PART 2

backup db `shop`

```
root@bimserver:~# mysqldump -u bim -p shop > bk_shop.sql
```

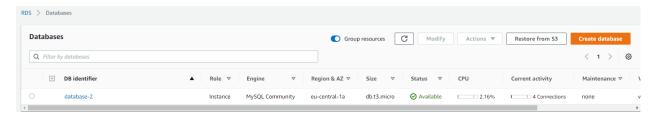
drop table

```
mysql> drop table customers;
Query OK, 0 rows affected (0.03 sec)

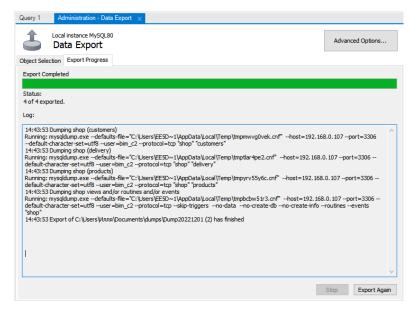
mysql> show tables;
+-----+
| Tables_in_shop |
+-----+
| delivery |
| products |
+------+
2 rows in set (0.00 sec)
```

restoring db `shop`

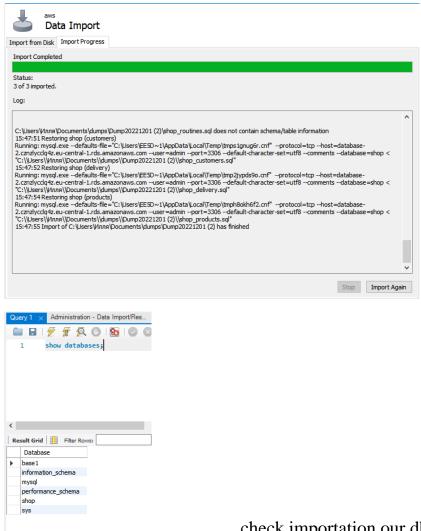
aws rds create db



export local db `shop`



import to aws db `shop`



check importation our db `shop`

Part 3

create db and collection in mongodb

insearting some information and outputing it

```
> db.users.insert({"name" : "Illia"});
WriteResult({ "nInserted" : 1 })
> db.users.insert({"name" : "Ivan"});
WriteResult({ "nInserted" : 1 })
> db.users.find();
{ "_id" : ObjectId("6388c77e5ea39e03d4ff4a97"), "name" : "Illia" }
{ "_id" : ObjectId("6388c7935ea39e03d4ff4a98"), "name" : "Ivan" }
> ■
```