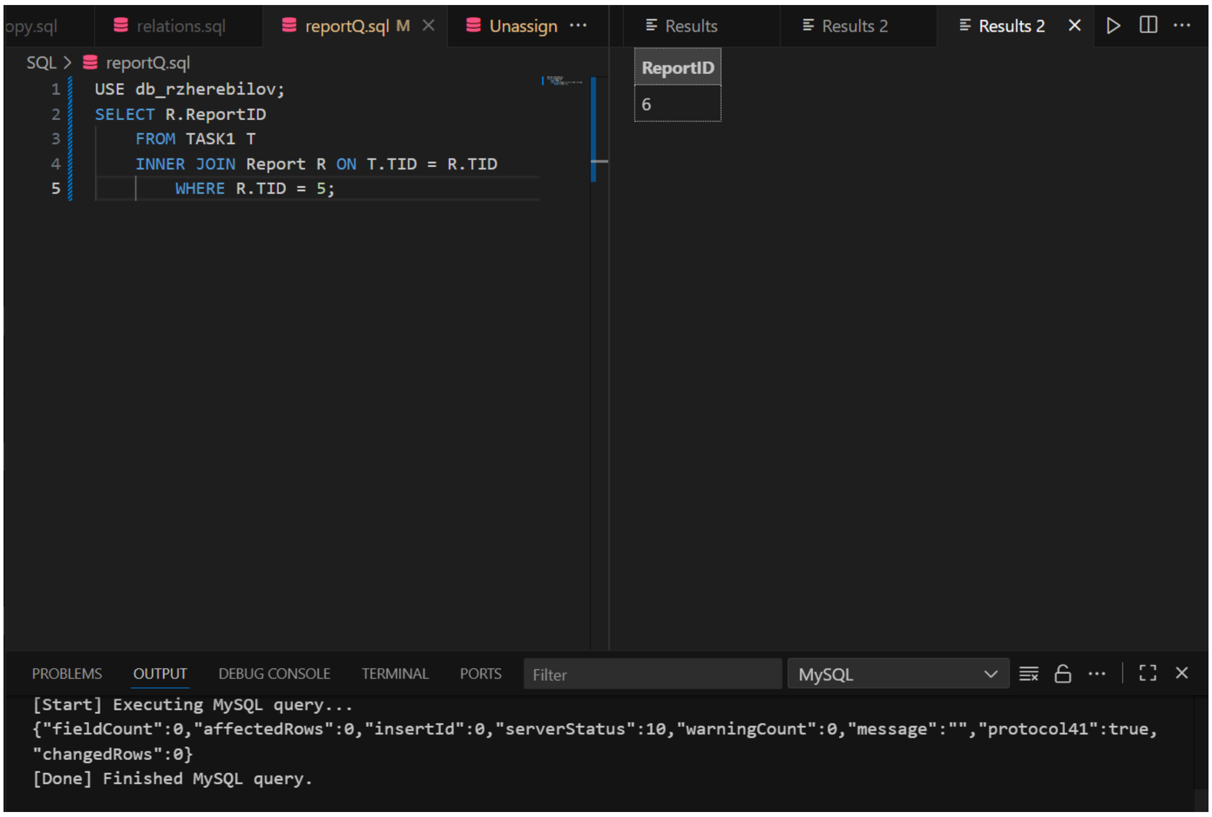
Assignment 3
Group Sierpinski S-23

You can find the queries in .sql format in the same folder as this document, here are screenshots of them running correctly, and you can test them on our db as well.

ReportQ.sql: Join
Find all the reports that are related to the specific task

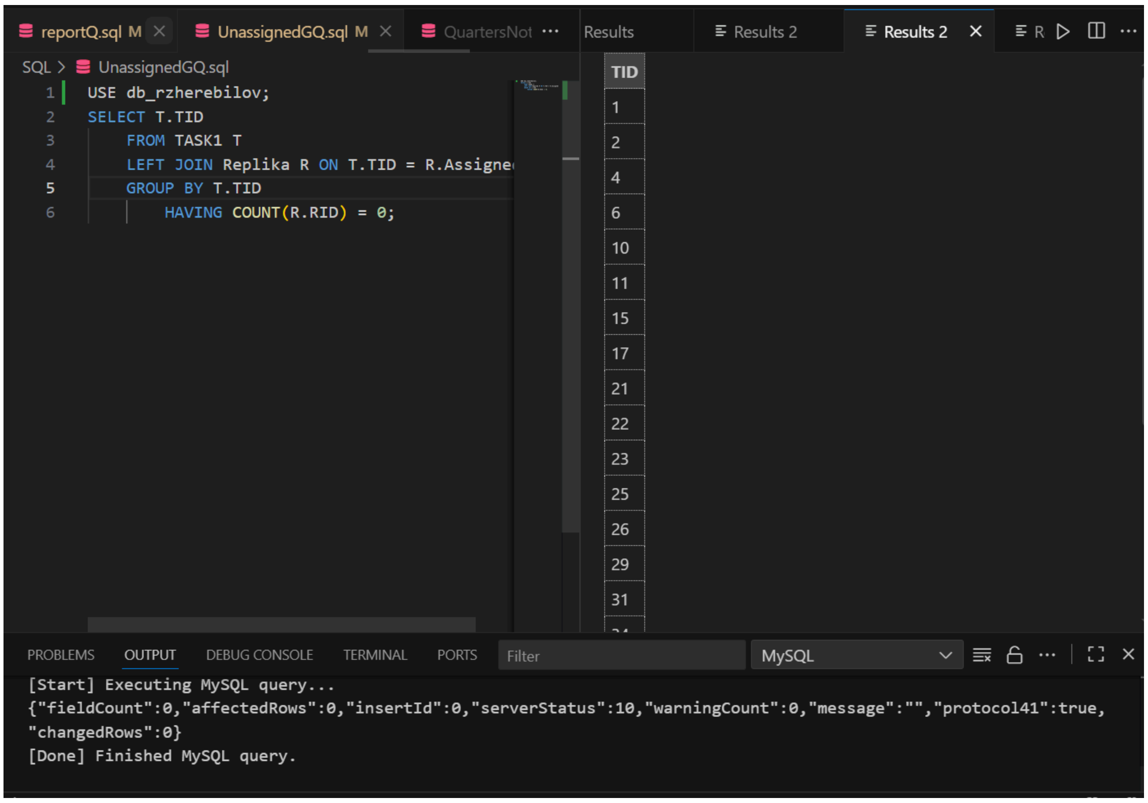


```sql
USE db_rzherebilov;
SELECT R.ReportID
    FROM TASK1 T
    INNER JOIN Report R ON T.TID = R.TID
        WHERE R.TID = 5;
```

ReportID
6

```
[Start] Executing MySQL query...
{"fieldCount":0,"affectedRows":0,"insertId":0,"serverStatus":10,"warningCount":0,"message":"","protocol41":true,
"changedRows":0}
[Done] Finished MySQL query.
```

UnassignedGQ.sql: Join, Group by
Find all of the tasks which do not have agents assigned to them (unnassigned status)

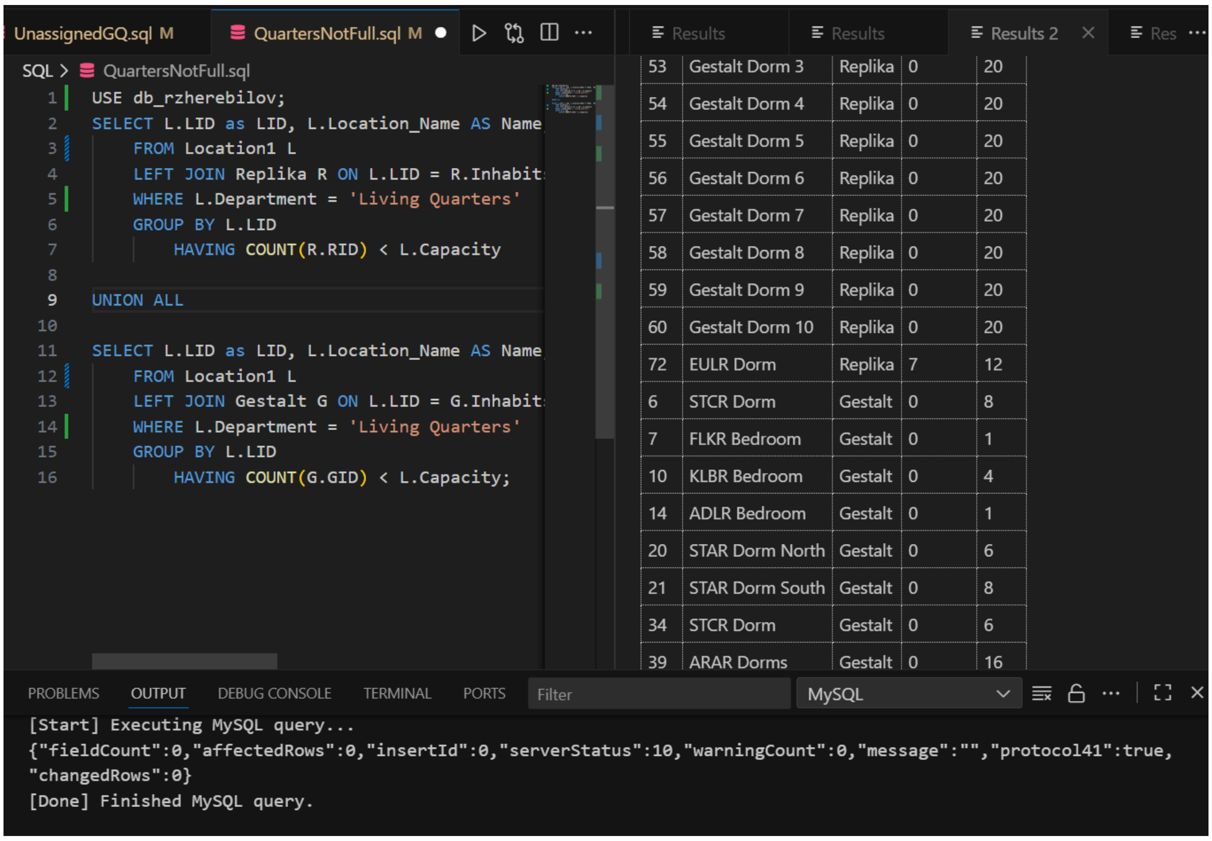


```sql
USE db_rzherebilov;
SELECT T.TID
    FROM TASK1 T
    LEFT JOIN Replika R ON T.TID = R.Assigne
    GROUP BY T.TID
        HAVING COUNT(R.RID) = 0;
```

TID
1
2
4
6
10
11
15
17
21
22
23
25
26
29
31

```
[Start] Executing MySQL query...
{"fieldCount":0,"affectedRows":0,"insertId":0,"serverStatus":10,"warningCount":0,"message":"","protocol41":true,
"changedRows":0}
[Done] Finished MySQL query.
```

QuartersNotFull.sql: join, clause, group, everything
List all the quarters where the number of people assigned does not exceed the room's capacity

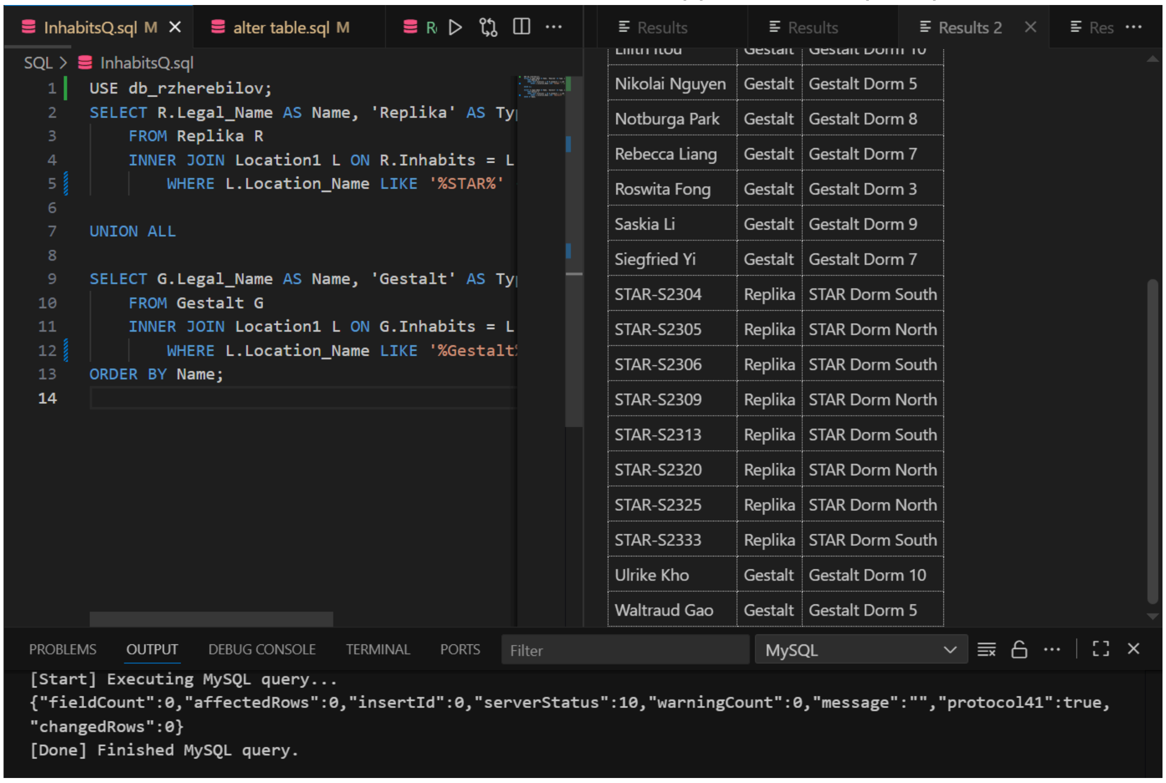


```sql
USE db_rzherebilov;
SELECT L.LID as LID, L.Location_Name AS Name
    FROM Location1 L
    LEFT JOIN Replika R ON L.LID = R.Inhabit
    WHERE L.Department = 'Living Quarters'
    GROUP BY L.LID
        HAVING COUNT(R.RID) < L.Capacity

UNION ALL

SELECT L.LID as LID, L.Location_Name AS Name
    FROM Location1 L
    LEFT JOIN Gestalt G ON L.LID = G.Inhabit
    WHERE L.Department = 'Living Quarters'
    GROUP BY L.LID
        HAVING COUNT(G.GID) < L.Capacity;
```

53	Gestalt Dorm 3	Replika	0	20
54	Gestalt Dorm 4	Replika	0	20
55	Gestalt Dorm 5	Replika	0	20
56	Gestalt Dorm 6	Replika	0	20
57	Gestalt Dorm 7	Replika	0	20
58	Gestalt Dorm 8	Replika	0	20
59	Gestalt Dorm 9	Replika	0	20
60	Gestalt Dorm 10	Replika	0	20
72	EULR Dorm	Replika	7	12
6	STCR Dorm	Gestalt	0	8
7	FLKR Bedroom	Gestalt	0	1
10	KLBR Bedroom	Gestalt	0	4
14	ADLR Bedroom	Gestalt	0	1
20	STAR Dorm North	Gestalt	0	6
21	STAR Dorm South	Gestalt	0	8
34	STCR Dorm	Gestalt	0	6
39	ARAR Dorms	Gestalt	0	16

```
[Start] Executing MySQL query...
{"fieldCount":0,"affectedRows":0,"insertId":0,"serverStatus":10,"warningCount":0,"message":"","protocol41":true,
"changedRows":0}
[Done] Finished MySQL query.
```

InhabitsQ.sql: Join, order, union
Lists all of the inhabitants that live in the dorm with applied search prompt

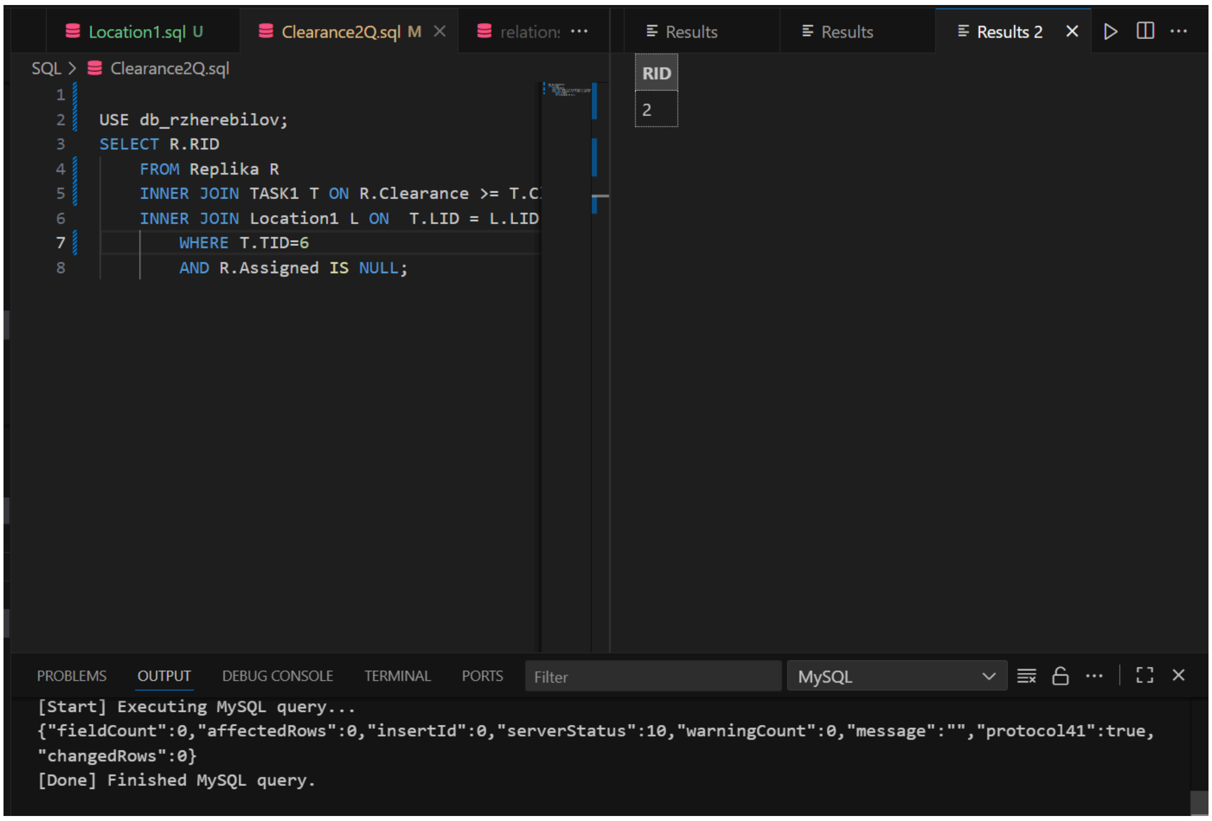


```sql
USE db_rzherebilov;
SELECT R.Legal_Name AS Name, 'Replika' AS Ty
    FROM Replika R
    INNER JOIN Location1 L ON R.Inhabits = L
        WHERE L.Location_Name LIKE '%STAR%'

UNION ALL

SELECT G.Legal_Name AS Name, 'Gestalt' AS Ty
    FROM Gestalt G
    INNER JOIN Location1 L ON G.Inhabits = L
        WHERE L.Location_Name LIKE '%Gestalt
ORDER BY Name;
```

Nikolai Nguyen	Gestalt	Gestalt Dorm 5
Notburga Park	Gestalt	Gestalt Dorm 8
Rebecca Liang	Gestalt	Gestalt Dorm 7
Roswita Fong	Gestalt	Gestalt Dorm 3
Saskia Li	Gestalt	Gestalt Dorm 9
Siegfried Yi	Gestalt	Gestalt Dorm 7
STAR-S2304	Replika	STAR Dorm South
STAR-S2305	Replika	STAR Dorm North
STAR-S2306	Replika	STAR Dorm South
STAR-S2309	Replika	STAR Dorm North
STAR-S2313	Replika	STAR Dorm South
STAR-S2320	Replika	STAR Dorm North
STAR-S2325	Replika	STAR Dorm North
STAR-S2333	Replika	STAR Dorm South
Ulrike Kho	Gestalt	Gestalt Dorm 10
Waltraud Gao	Gestalt	Gestalt Dorm 5

```
[Start] Executing MySQL query...
{"fieldCount":0,"affectedRows":0,"insertId":0,"serverStatus":10,"warningCount":0,"message":"","protocol41":true,
"changedRows":0}
[Done] Finished MySQL query.
```

Clearance2Q.sql
List all of the available agents with enough clearance to meet the requirements of the clearance for the specific task (in this case RID 2) is the unassigned admin with highest clearance

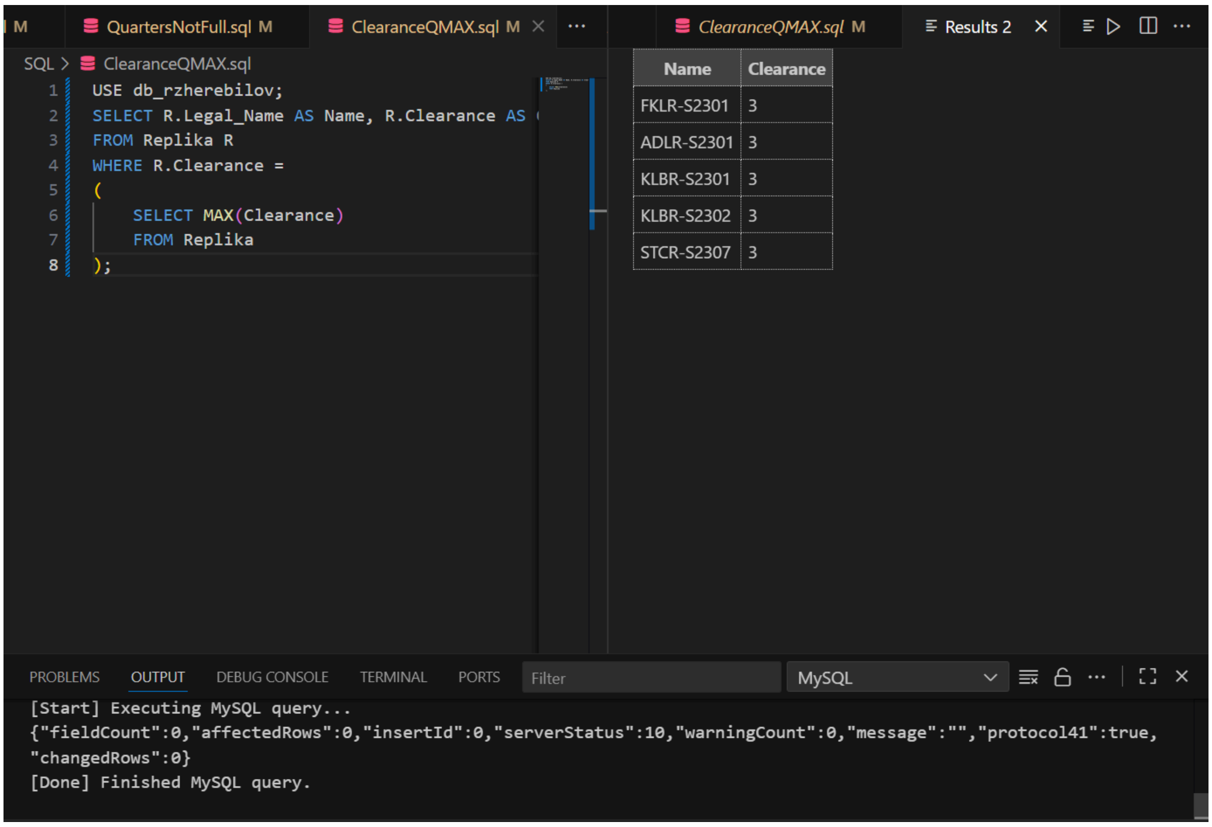


```

USE db_rzherebilov;
SELECT R.RID
    FROM Replika R
    INNER JOIN TASK1 T ON R.Clearance >= T.C
    INNER JOIN Location1 L ON  T.LID = L.LID
        WHERE T.TID=6
        AND R.Assigned IS NULL;
```

RID
2

```
[Start] Executing MySQL query...
{"fieldCount":0,"affectedRows":0,"insertId":0,"serverStatus":10,"warningCount":0,"message":"","protocol41":true,
"changedRows":0}
[Done] Finished MySQL query.
```

ClearancaQMAX.sql
List all of the replikas with the highest level of clearance



```
USE db_rzherebilov;
SELECT R.Legal_Name AS Name, R.Clearance AS
FROM Replika R
WHERE R.Clearance =
(
    SELECT MAX(Clearance)
    FROM Replika
);
```

Name	Clearance
FKLR-S2301	3
ADLR-S2301	3
KLBR-S2301	3
KLBR-S2302	3
STCR-S2307	3

```
[Start] Executing MySQL query...
{"fieldCount":0,"affectedRows":0,"insertId":0,"serverStatus":10,"warningCount":0,"message":"","protocol41":true,
"changedRows":0}
[Done] Finished MySQL query.
```