

Консоль

Задание 1

Команда или последовательность команд, которой удалось получить нужные логи:
`grep -R "^233.201.*" ~/logs/2019/12`

Логи:

```
233.201.188.154 - - [18/12/2019:21:46:01 +0000] "DELETE /events HTTP/1.1" 403 3971
233.201.182.9 - - [21/12/2019:21:56:20 +0000] "PATCH /users HTTP/1.1" 400 4118
```

Задание 2

Команды, которые создают директории bug1 и events:

```
mkdir bug1
```

```
mkdir ~/bug1/events
```

*Напиши тут команды

Команда, которой выбираешь запросы за указанный период. Это те запросы, которыми ты отбираешь логи в файл main.txt:

```
grep 3./12/2019:21:3. ~/logs/2019/12/apache_2019-12-3*.txt > ~/bug1/main.txt
```

*Напиши тут команду

Команды, которыми ты кладешь логи в файлы 400.txt и 500.txt из main.txt:

```
grep " 400 " ~/bug1/main.txt > ~/bug1/events/400.txt
```

```
grep " 500 " ~/bug1/main.txt > ~/bug1/events/500.txt
```

*Напиши тут команды

400.txt

```
/home/morty/logs/2019/12/apache_2019-12-30.txt:80.57.170.51 - - [30/12/2019:21:35:12
+0000] "DELETE /users HTTP/1.1" 400 3623
```

```
/home/morty/logs/2019/12/apache_2019-12-30.txt:204.235.176.118 - - [30/12/2019:21:35:13
+0000] "POST /users HTTP/1.1" 400 4704
```

```
/home/morty/logs/2019/12/apache_2019-12-30.txt:82.95.203.67 - - [30/12/2019:21:35:19
+0000] "DELETE /lists HTTP/1.1" 400 3737
```

500.txt.

/home/morty/logs/2019/12/apache_2019-12-30.txt:64.250.112.189 - - [30/12/2019:21:35:13 +0000] "PUT /parsers HTTP/1.1" 500 4639

/home/morty/logs/2019/12/apache_2019-12-30.txt:193.253.101.180 - - [30/12/2019:21:35:31 +0000] "PATCH /alerts HTTP/1.1" 500 2944

/home/morty/logs/2019/12/apache_2019-12-30.txt:197.106.117.194 - - [30/12/2019:21:35:31 +0000] "PATCH /parsers HTTP/1.1" 500 3519

/home/morty/logs/2019/12/apache_2019-12-30.txt:247.124.71.67 - - [30/12/2019:21:35:45

База данных

Задание 1

Число автомобилей:

5529

Запрос, которым тебе удалось решить задачу.

SELECT COUNT(cab_id) AS cab FROM cabs;

Задание 2

Список компаний с числом автомобилей меньше 100.

company_name	cnt
-----+-----	
Nova Taxi Affiliation Llc	97
Patriot Taxi Dbа Peace Taxi Associat	89
Blue Diamond	85
Checker Taxi Affiliation	81
Chicago Medallion Management	80
Chicago Independents	69
24 Seven Taxi	67
Checker Taxi	60

American United	55
Chicago Medallion Leasing INC	53
Top Cab Affiliation	49
KOAM Taxi Association	48
Chicago Taxicab	38
Norshore Cab	34
Gold Coast Taxi	20
Metro Group	20
Service Taxi Association	18
5 Star Taxi	14
American United Taxi Affiliation	8
Metro Jet Taxi A	8
Setare Inc	7
Leonard Cab Co	5
4615 - 83503 Tyrone Henderson	1
5062 - 34841 Sam Mestas	1
4623 - 27290 Jay Kim	1
5997 - 65283 AW Services Inc.	1
2092 - 61288 Sbeih company	1
1469 - 64126 Omar Jada	1
2733 - 74600 Benny Jona	1
2192 - 73487 Zeymane Corp	1
5006 - 39261 Salifu Bawa	1
3556 - 36214 RC Andrews Cab	1
3721 - Santamaria Express, Alvaro Santamaria	1
2809 - 95474 C & D Cab Co Inc.	1
2241 - 44667 - Felman Corp, Manuel Alonso	1

3620 - 52292 David K. Cab Corp.	1
2823 - 73307 Lee Express Inc	1
6057 - 24657 Richard Addo	1
6742 - 83735 Tasha ride inc	1
1085 - 72312 N and W Cab Co	1
3591 - 63480 Chuks Cab	1
0118 - 42111 Godfrey S.Awir	1
6574 - Babylon Express Inc.	1
3094 - 24059 G.L.B. Cab Co	1
5874 - 73628 Sergey Cab Corp.	1
6743 - 78771 Luhak Corp	1
5074 - 54002 Ahzmi Inc	1
3623 - 72222 Arrington Enterprises	1
4053 - 40193 Adwar H. Nikola	1
Chicago Star Taxicab	1
3011 - 66308 JBL Cab Inc.	1

(51 rows)

Запрос, которым тебе удалось решить задачу.

```
SELECT company_name, COUNT(cab_id) AS cnt FROM cabs GROUP BY
company_name HAVING COUNT(cab_id) < 100 ORDER BY cnt DESC;
```

Задание 3

Таблица с данными за указанный период.

ts	weather_conditions
2017-11-05 00:00:00	Good
2017-11-05 01:00:00	Bad
2017-11-05 02:00:00	Good
2017-11-05 03:00:00	Good
2017-11-05 04:00:00	Bad
2017-11-05 05:00:00	Bad
2017-11-05 06:00:00	Good
2017-11-05 07:00:00	Good
2017-11-05 08:00:00	Good
2017-11-05 09:00:00	Good
2017-11-05 10:00:00	Good
2017-11-05 11:00:00	Good
2017-11-05 12:00:00	Good
2017-11-05 13:00:00	Good
2017-11-05 14:00:00	Bad
2017-11-05 15:00:00	Good
2017-11-05 16:00:00	Bad
2017-11-05 17:00:00	Good
2017-11-05 18:00:00	Bad
2017-11-05 19:00:00	Bad
2017-11-05 20:00:00	Bad
2017-11-05 21:00:00	Good
2017-11-05 22:00:00	Good
2017-11-05 23:00:00	Good
2017-11-06 00:00:00	Good
(25 rows)	

Запрос, которым удалось решить задачу.

```
SELECT ts, CASE WHEN description LIKE '%rain%' OR description LIKE '%storm%'
THEN 'Bad' ELSE 'Good' END AS weather_conditions FROM weather_records WHERE
ts BETWEEN '2017-11-05 00:00' AND '2017-11-06 00:00';
```

Задание 4

Таблица с данными за указанный период.

company_name	trips_amount
Flash Cab	19558
Taxi Affiliation Services	11422
Medallion Leasin	10367
Yellow Cab	9888
Taxi Affiliation Service Yellow	9299
Chicago Carriage Cab Corp	9181
City Service	8448
Sun Taxi	7701
Star North Management LLC	7455
Blue Ribbon Taxi Association Inc.	5953
Choice Taxi Association	5015
Globe Taxi	4383
Dispatch Taxi Affiliation	3355
Nova Taxi Affiliation Llc	3175
Patriot Taxi Dba Peace Taxi Associat	2235
Checker Taxi Affiliation	2216
Blue Diamond	2070
Chicago Medallion Management	1955
24 Seven Taxi	1775
Chicago Medallion Leasing INC	1607
Checker Taxi	1486
American United	1404
Chicago Independents	1296
KOAM Taxi Association	1259
Chicago Taxicab	1014
Top Cab Affiliation	978
Gold Coast Taxi	428
Service Taxi Association	402
5 Star Taxi	310
303 Taxi	250
Setare Inc	230
American United Taxi Affiliation	210
Leonard Cab Co	147
Metro Jet Taxi A	146
Norshore Cab	127
6742 - 83735 Tasha ride inc	39
3591 - 63480 Chuks Cab	37
1469 - 64126 Omar Jada	36
6743 - 78771 Luhak Corp	33
0118 - 42111 Godfrey S.Awir	33
6574 - Babylon Express Inc.	31
Chicago Star Taxicab	29
1085 - 72312 N and W Cab Co	29
2809 - 95474 C & D Cab Co Inc.	29
2092 - 61288 Sbeih company	27
3011 - 66308 JBL Cab Inc.	25
3620 - 52292 David K. Cab Corp.	21
4615 - 83503 Tyrone Henderson	21
3623 - 72222 Arrington Enterprises	20
5074 - 54002 Ahzmi Inc	16
2823 - 73307 Lee Express Inc	15
4623 - 27290 Jay Kim	15
3721 - Santamaria Express, Alvaro Santamaria	14
5006 - 39261 Salifu Bawa	14
2192 - 73487 Zeymane Corp	14

```

6057 - 24657 Richard Addo | 13
5997 - 65283 AW Services Inc. | 12
Metro Group | 11
5062 - 34841 Sam Mestas | 8
4053 - 40193 Adwar H. Nikola | 7
2733 - 74600 Benny Jona | 7
5874 - 73628 Sergey Cab Corp. | 5
2241 - 44667 - Felman Corp, Manuel Alonso | 3
3556 - 36214 RC Andrews Cab | 2
(64 rows)

(END)

```

Запрос, которым удалось решить задачу.

```

SELECT cabs.company_name AS company_name, COUNT(trips.trip_id) AS
trips_amount FROM cabs INNER JOIN trips ON trips.cab_id = cabs.cab_id WHERE
trips.start_ts >= '2017-11-15 00:00' AND trips.start_ts <= '2017-11-16 23:59' GROUP BY
company_name ORDER BY trips_amount DESC;

```

*Напиши тут запрос