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## Консоль

### Задание 1

Команда или последовательность команд, которой удалось получить нужные логи:

```
$ grep -R ^233.201 ~/logs/2019/12
```

```
$ 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
```

```
/home/morty/logs/2019/12/apache_2019-12-18.txt:233.201.188.154 - - [18/12/2019:21:46:01 +0000] "DELETE /events HTTP/1.1" 403 3971
/home/morty/logs/2019/12/apache_2019-12-21.txt:233.201.182.9 - - [21/12/2019:21:56:20 +0000] "PATCH /users HTTP/1.1" 400 4118
morty@207b80f9a1c0:~$
```

### Задание 2

Команды, которые создают директории bug1 и events:

```
$ mkdir ~/bug1
```

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

```
morty@207b80f9a1c0:~$ mkdir ~/bug1
morty@207b80f9a1c0:~$ mkdir ~/bug1/events
```

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

```
$ grep -R "3./12/2019:21:3.:*" ~/logs/2019/12 > main.txt
```

```
morty@207b80f9a1c0:~$ grep -R "3./12/2019:21:3.:*" ~/logs/2019/12 > main.txt
morty@207b80f9a1c0:~$ cd ~/bug1
```

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

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

(смотрим файл с помощью nano 400.txt)

```
morty@207b80f9a1c0:~/bug1$ grep " 400" main.txt > events/400.txt
morty@207b80f9a1c0:~/bug1$ nano 400.txt
```

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

(смотрим файл с помощью nano 500.txt)

```
morty@207b80f9a1c0:~/bug1$ grep " 500" main.txt > events/500.txt
morty@207b80f9a1c0:~/bug1$ nano 500.txt
```

400.txt

```
morty@df27d5895500: ~/bug1/events
GNU nano 3.2                                400.txt

/home/morty/logs/2019/12/apache_2019-12-31.txt:86.34.86.182 - - [31/12/2019:21:35:10 +0000] "POST /auth HTTP/1.1" 400 3626
/home/morty/logs/2019/12/apache_2019-12-31.txt:167.37.16.117 - - [31/12/2019:21:35:17 +0000] "PATCH /customers HTTP/1.1" 400 3294
/home/morty/logs/2019/12/apache_2019-12-31.txt:199.128.92.19 - - [31/12/2019:21:35:43 +0000] "PUT /users HTTP/1.1" 400 4180
/home/morty/logs/2019/12/apache_2019-12-31.txt:162.152.99.143 - - [31/12/2019:21:35:59 +0000] "PUT /users HTTP/1.1" 400 4606
/home/morty/logs/2019/12/apache_2019-12-31.txt:83.115.59.224 - - [31/12/2019:21:37:26 +0000] "GET /alerts HTTP/1.1" 400 3489
/home/morty/logs/2019/12/apache_2019-12-31.txt:194.10.97.226 - - [31/12/2019:21:37:31 +0000] "DELETE /lists HTTP/1.1" 400 2447
/home/morty/logs/2019/12/apache_2019-12-31.txt:180.99.214.40 - - [31/12/2019:21:37:44 +0000] "DELETE /alerts HTTP/1.1" 400 2077
/home/morty/logs/2019/12/apache_2019-12-31.txt:154.152.205.4 - - [31/12/2019:21:37:50 +0000] "GET /playbooks HTTP/1.1" 400 3324
/home/morty/logs/2019/12/apache_2019-12-31.txt:197.82.125.54 - - [31/12/2019:21:37:52 +0000] "PUT /fieldsets HTTP/1.1" 400 4365
/home/morty/logs/2019/12/apache_2019-12-31.txt:115.89.87.219 - - [31/12/2019:21:38:06 +0000] "PUT /playbooks HTTP/1.1" 400 2589
/home/morty/logs/2019/12/apache_2019-12-31.txt:100.77.15.14 - - [31/12/2019:21:38:07 +0000] "GET /fieldsets HTTP/1.1" 400 4911
/home/morty/logs/2019/12/apache_2019-12-31.txt:22.33.159.242 - - [31/12/2019:21:38:07 +0000] "GET /playbooks HTTP/1.1" 400 3955
/home/morty/logs/2019/12/apache_2019-12-31.txt:149.148.229.11 - - [31/12/2019:21:39:16 +0000] "GET /users HTTP/1.1" 400 2071
/home/morty/logs/2019/12/apache_2019-12-31.txt:236.107.64.192 - - [31/12/2019:21:39:17 +0000] "PATCH /users HTTP/1.1" 400 2791
/home/morty/logs/2019/12/apache_2019-12-31.txt:24.156.105.39 - - [31/12/2019:21:39:23 +0000] "GET /lists HTTP/1.1" 400 2902
/home/morty/logs/2019/12/apache_2019-12-31.txt:193.50.164.254 - - [31/12/2019:21:39:23 +0000] "PUT /playbooks HTTP/1.1" 400 3296
/home/morty/logs/2019/12/apache_2019-12-31.txt:18.123.104.91 - - [31/12/2019:21:39:52 +0000] "GET /collectors HTTP/1.1" 400 4372
/home/morty/logs/2019/12/apache_2019-12-31.txt:234.218.148.4 - - [31/12/2019:21:39:54 +0000] "PUT /users HTTP/1.1" 400 2509
/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
/home/morty/logs/2019/12/apache_2019-12-30.txt:155.242.215.46 - - [30/12/2019:21:35:38 +0000] "POST /playbooks HTTP/1.1" 400 4450
/home/morty/logs/2019/12/apache_2019-12-30.txt:189.176.85.0 - - [30/12/2019:21:35:39 +0000] "PATCH /alerts HTTP/1.1" 400 2732
/home/morty/logs/2019/12/apache_2019-12-30.txt:13.108.71.71 - - [30/12/2019:21:35:43 +0000] "PATCH /events HTTP/1.1" 400 3410
/home/morty/logs/2019/12/apache_2019-12-30.txt:195.213.133.182 - - [30/12/2019:21:35:46 +0000] "PUT /customers HTTP/1.1" 400 3085
/home/morty/logs/2019/12/apache_2019-12-30.txt:235.243.133.78 - - [30/12/2019:21:35:47 +0000] "PATCH /customers HTTP/1.1" 400 3264
/home/morty/logs/2019/12/apache_2019-12-30.txt:192.57.115.49 - - [30/12/2019:21:35:55 +0000] "POST /parsers HTTP/1.1" 400 2457
/home/morty/logs/2019/12/apache_2019-12-30.txt:71.0.49.244 - - [30/12/2019:21:35:55 +0000] "PUT /collectors HTTP/1.1" 400 2785
/home/morty/logs/2019/12/apache_2019-12-30.txt:224.159.206.126 - - [30/12/2019:21:36:02 +0000] "DELETE /customers HTTP/1.1" 400 4569
/home/morty/logs/2019/12/apache_2019-12-30.txt:131.35.106.246 - - [30/12/2019:21:36:04 +0000] "DELETE /lists HTTP/1.1" 400 2578
/home/morty/logs/2019/12/apache_2019-12-30.txt:216.24.42.208 - - [30/12/2019:21:36:06 +0000] "GET /parsers HTTP/1.1" 400 4597
/home/morty/logs/2019/12/apache_2019-12-30.txt:123.53.150.160 - - [30/12/2019:21:37:19 +0000] "PATCH /events HTTP/1.1" 400 4379
/home/morty/logs/2019/12/apache_2019-12-30.txt:61.129.127.103 - - [30/12/2019:21:37:32 +0000] "GET /lists HTTP/1.1" 400 2575
/home/morty/logs/2019/12/apache_2019-12-30.txt:90.216.4.78 - - [30/12/2019:21:37:34 +0000] "PATCH /lists HTTP/1.1" 400 3899
/home/morty/logs/2019/12/apache_2019-12-30.txt:204.250.214.208 - - [30/12/2019:21:37:36 +0000] "PATCH /parsers HTTP/1.1" 400 4742
/home/morty/logs/2019/12/apache_2019-12-30.txt:79.214.240.98 - - [30/12/2019:21:37:37 +0000] "POST /fieldsets HTTP/1.1" 400 4441
/home/morty/logs/2019/12/apache_2019-12-30.txt:65.47.42.12 - - [30/12/2019:21:37:39 +0000] "PATCH /customers HTTP/1.1" 400 2500
/home/morty/logs/2019/12/apache_2019-12-30.txt:251.118.141.34 - - [30/12/2019:21:37:41 +0000] "POST /customers HTTP/1.1" 400 3519
/home/morty/logs/2019/12/apache_2019-12-30.txt:205.20.166.196 - - [30/12/2019:21:37:51 +0000] "POST /users HTTP/1.1" 400 4032
/home/morty/logs/2019/12/apache_2019-12-30.txt:156.217.3.46 - - [30/12/2019:21:37:52 +0000] "PATCH /parsers HTTP/1.1" 400 2020
/home/morty/logs/2019/12/apache_2019-12-30.txt:48.240.198.167 - - [30/12/2019:21:37:57 +0000] "PATCH /playbooks HTTP/1.1" 400 4100
/home/morty/logs/2019/12/apache_2019-12-30.txt:101.255.159.211 - - [30/12/2019:21:37:59 +0000] "GET /auth HTTP/1.1" 400 2324
/home/morty/logs/2019/12/apache_2019-12-30.txt:80.76.98.203 - - [30/12/2019:21:38:00 +0000] "POST /playbooks HTTP/1.1" 400 3045
/home/morty/logs/2019/12/apache_2019-12-30.txt:85.64.63.255 - - [30/12/2019:21:38:13 +0000] "PATCH /collectors HTTP/1.1" 400 2291
/home/morty/logs/2019/12/apache_2019-12-30.txt:184.79.247.161 - - [30/12/2019:21:38:13 +0000] "PUT /alerts HTTP/1.1" 400 3557
/home/morty/logs/2019/12/apache_2019-12-30.txt:93.2.134.22 - - [30/12/2019:21:39:39 +0000] "DELETE /alerts HTTP/1.1" 400 3701
```

500.txt.

morty@df27d5895500: ~/bug1/events

GNU nano 3.2

500.txt

```
/home/morty/logs/2019/12/apache_2019-12-31.txt:208.205.133.127 - - [31/12/2019:21:35:17 +0000] "DELETE /alerts HTTP/1.1" 500 4561
/home/morty/logs/2019/12/apache_2019-12-31.txt:20.145.255.91 - - [31/12/2019:21:35:30 +0000] "GET /parsers HTTP/1.1" 500 3051
/home/morty/logs/2019/12/apache_2019-12-31.txt:91.66.134.13 - - [31/12/2019:21:35:53 +0000] "POST /lists HTTP/1.1" 500 3319
/home/morty/logs/2019/12/apache_2019-12-31.txt:31.88.211.206 - - [31/12/2019:21:35:57 +0000] "DELETE /events HTTP/1.1" 500 2325
/home/morty/logs/2019/12/apache_2019-12-31.txt:171.37.114.114 - - [31/12/2019:21:37:39 +0000] "DELETE /fieldsets HTTP/1.1" 500 3253
/home/morty/logs/2019/12/apache_2019-12-31.txt:223.157.242.167 - - [31/12/2019:21:37:59 +0000] "POST /users HTTP/1.1" 500 2283
/home/morty/logs/2019/12/apache_2019-12-31.txt:98.181.102.34 - - [31/12/2019:21:38:06 +0000] "PATCH /fieldsets HTTP/1.1" 500 4672
/home/morty/logs/2019/12/apache_2019-12-31.txt:254.74.22.79 - - [31/12/2019:21:38:06 +0000] "PUT /lists HTTP/1.1" 500 2259
/home/morty/logs/2019/12/apache_2019-12-31.txt:103.46.238.3 - - [31/12/2019:21:38:09 +0000] "PUT /lists HTTP/1.1" 500 3992
/home/morty/logs/2019/12/apache_2019-12-31.txt:41.62.205.107 - - [31/12/2019:21:39:20 +0000] "PATCH /alerts HTTP/1.1" 500 3631
/home/morty/logs/2019/12/apache_2019-12-31.txt:22.53.105.197 - - [31/12/2019:21:39:31 +0000] "DELETE /collectors HTTP/1.1" 500 4202
/home/morty/logs/2019/12/apache_2019-12-31.txt:178.22.133.42 - - [31/12/2019:21:39:43 +0000] "PUT /alerts HTTP/1.1" 500 4648
/home/morty/logs/2019/12/apache_2019-12-31.txt:102.247.13.50 - - [31/12/2019:21:39:55 +0000] "PATCH /auth HTTP/1.1" 500 3736
/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 +0000] "PUT /alerts HTTP/1.1" 500 2746
/home/morty/logs/2019/12/apache_2019-12-30.txt:62.88.204.119 - - [30/12/2019:21:35:51 +0000] "PUT /auth HTTP/1.1" 500 2666
/home/morty/logs/2019/12/apache_2019-12-30.txt:125.156.142.26 - - [30/12/2019:21:36:01 +0000] "PATCH /events HTTP/1.1" 500 3460
/home/morty/logs/2019/12/apache_2019-12-30.txt:144.170.212.70 - - [30/12/2019:21:36:04 +0000] "DELETE /parsers HTTP/1.1" 500 2599
/home/morty/logs/2019/12/apache_2019-12-30.txt:59.39.200.252 - - [30/12/2019:21:36:05 +0000] "GET /alerts HTTP/1.1" 500 2650
/home/morty/logs/2019/12/apache_2019-12-30.txt:150.136.200.100 - - [30/12/2019:21:37:24 +0000] "POST /lists HTTP/1.1" 500 2684
/home/morty/logs/2019/12/apache_2019-12-30.txt:84.81.25.45 - - [30/12/2019:21:37:25 +0000] "POST /auth HTTP/1.1" 500 2052
/home/morty/logs/2019/12/apache_2019-12-30.txt:30.222.160.141 - - [30/12/2019:21:37:30 +0000] "PATCH /parsers HTTP/1.1" 500 2017
/home/morty/logs/2019/12/apache_2019-12-30.txt:117.87.158.36 - - [30/12/2019:21:37:34 +0000] "POST /fieldsets HTTP/1.1" 500 4056
/home/morty/logs/2019/12/apache_2019-12-30.txt:212.153.128.212 - - [30/12/2019:21:37:42 +0000] "PUT /fieldsets HTTP/1.1" 500 3259
/home/morty/logs/2019/12/apache_2019-12-30.txt:58.188.83.217 - - [30/12/2019:21:37:46 +0000] "POST /playbooks HTTP/1.1" 500 3947
/home/morty/logs/2019/12/apache_2019-12-30.txt:193.123.131.146 - - [30/12/2019:21:37:47 +0000] "PUT /lists HTTP/1.1" 500 3902
/home/morty/logs/2019/12/apache_2019-12-30.txt:182.7.179.91 - - [30/12/2019:21:37:48 +0000] "GET /users HTTP/1.1" 500 2950
/home/morty/logs/2019/12/apache_2019-12-30.txt:10.25.168.164 - - [30/12/2019:21:38:05 +0000] "PATCH /playbooks HTTP/1.1" 500 3858
/home/morty/logs/2019/12/apache_2019-12-30.txt:215.201.210.173 - - [30/12/2019:21:38:11 +0000] "PATCH /customers HTTP/1.1" 500 3277
/home/morty/logs/2019/12/apache_2019-12-30.txt:179.241.103.167 - - [30/12/2019:21:39:23 +0000] "POST /lists HTTP/1.1" 500 3669
/home/morty/logs/2019/12/apache_2019-12-30.txt:147.188.170.252 - - [30/12/2019:21:39:33 +0000] "POST /fieldsets HTTP/1.1" 500 3313
/home/morty/logs/2019/12/apache_2019-12-30.txt:1.249.123.189 - - [30/12/2019:21:39:36 +0000] "PATCH /alerts HTTP/1.1" 500 4734
/home/morty/logs/2019/12/apache_2019-12-30.txt:124.114.135.105 - - [30/12/2019:21:39:41 +0000] "PATCH /customers HTTP/1.1" 500 3348
/home/morty/logs/2019/12/apache_2019-12-30.txt:35.215.100.202 - - [30/12/2019:21:39:43 +0000] "PUT /alerts HTTP/1.1" 500 4345
/home/morty/logs/2019/12/apache_2019-12-30.txt:86.222.23.128 - - [30/12/2019:21:39:44 +0000] "PATCH /alerts HTTP/1.1" 500 2230
/home/morty/logs/2019/12/apache_2019-12-30.txt:20.161.75.95 - - [30/12/2019:21:39:48 +0000] "DELETE /users HTTP/1.1" 500 2412
/home/morty/logs/2019/12/apache_2019-12-30.txt:196.18.151.117 - - [30/12/2019:21:39:55 +0000] "PUT /events HTTP/1.1" 500 4439
/home/morty/logs/2019/12/apache_2019-12-30.txt:77.101.138.151 - - [30/12/2019:21:39:57 +0000] "PUT /lists HTTP/1.1" 500 2194
```

## База данных

### Задание 1

Число автомобилей:

5500

Запрос, которым тебе удалось решить задачу.

Подключаемся к БД chicago\_taxi( \c chicago\_taxi под логином morty и паролем smith)

SELECT

COUNT(DISTINCT vehicle\_id) AS vehicle\_id

FROM cabs;

```
morty=# \c chicago_taxi
You are now connected to database "chicago_taxi" as user "morty".
chicago_taxi=# SELECT
chicago_taxi-# COUNT(DISTINCT vehicle_id) AS vehicle_id
chicago_taxi-# FROM cabs;
```

### Задание 2

Список компаний с числом автомобилей меньше 100.

company_name	cnt
Nova Taxi Affiliation Llc	97
Patriot Taxi DbA 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
:	

Запрос, которым тебе удалось решить задачу.

Подключаемся к БД chicago\_taxi( \c chicago\_taxi под логином morty и паролем smith)

SELECT company\_name, COUNT(vehicle\_id) AS cnt

FROM cabs

GROUP BY company\_name

HAVING COUNT(vehicle\_id) < 100

ORDER BY cnt DESC;

```
chicago_taxi=# SELECT company_name, COUNT(vehicle_id) AS cnt
chicago_taxi=# FROM cabs
chicago_taxi=# GROUP BY company_name
chicago_taxi=# HAVING COUNT(vehicle_id) < 100
chicago_taxi=# ORDER BY cnt DESC;
chicago_taxi=#
```

### 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.**

Подключаемся к БД chicago\_taxi( \с chicago\_taxi под логином morty и паролем smith)

```
SELECT ts, CASE
```

```
WHEN description LIKE '%rain%' OR description LIKE '%storm%' THEN 'Bad' ELSE 'Good'
END AS weather_conditions
```

```
FROM weather_records
```

```
WHERE ts >= '2017-11-05 00:00' AND ts <= '2017-11-06 00:00';
```

```
chicago_taxi=# SELECT ts, CASE
chicago_taxi=# WHEN description LIKE '%rain%' OR description LIKE '%storm%' THEN 'Bad' ELSE 'Good' END AS weather_conditions
chicago_taxi=# FROM weather_records
chicago_taxi=# WHERE ts >= '2017-11-05 00:00' AND ts <= '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



### Запрос, которым удалось решить задачу.

Подключаемся к БД chicago\_taxi( \c chicago\_taxi под логином morty и паролем smith)

```
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 BETWEEN '2017-11-15 00:00' AND '2017-11-16 23:59'
```

```
GROUP BY cabs.company_name
```

```
ORDER BY trips_amount DESC;
```

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