Консоль

Задание 1

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

Логи:

/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

Задание 2

Команды, которые создают директории bug1 и events:

mkdir bug1 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].' > bug1/main.txt

Команды, которыми ты кладёшь 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

400.txt

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

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

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

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

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

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

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
```

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

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

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

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

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

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

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

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

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

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

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

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

logs/2019/12/apache_2019-12-30.txt:204.235.176.118 - - [30/12/2019:21:35:13 +000 0] "POST /users HTTP/1.1" 400 4704

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

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

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

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

logs/2019/12/apache_2019-12-30.txt:195.213.133.182 - - [30/12/2019:21:35:46 +000 0] "PUT /customers HTTP/1.1" 400 3085

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

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

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

logs/2019/12/apache_2019-12-30.txt:224.159.206.126 - - [30/12/2019:21:36:02 +000 0] "DELETE /customers HTTP/1.1" 400 4569

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

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
```

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

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

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

logs/2019/12/apache_2019-12-30.txt:204.250.214.208 - - [30/12/2019:21:37:36 +000 0] "PATCH /parsers HTTP/1.1" 400 4742

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

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

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

logs/2019/12/apache_2019-12-30.txt:205.20.166.196 - - [30/12/2019:21:37:51 +0000 1 "POST /users HTTP/1.1" 400 4032

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

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

logs/2019/12/apache_2019-12-30.txt:101.255.159.211 - - [30/12/2019:21:37:59 +000 0] "GET /auth HTTP/1.1" 400 2324

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

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

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

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

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

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

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

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

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

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

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

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

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

```
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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 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 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 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.

select count(distinct vehicle_id) from cabs;

Задание 2

Список компаний с числом автомобилей меньше 100.

company_name	cnt
Company_name Nova Taxi Affiliation Llc Patriot Taxi Dba Peace Taxi Asso Blue Diamond Checker Taxi Affiliation Chicago Medallion Management Chicago Independents 24 Seven Taxi Checker Taxi American United Chicago Medallion Leasing INC Top Cab Affiliation KOAM Taxi Association Chicago Taxicab Norshore Cab Gold Coast Taxi Metro Group Service Taxi Association 5 Star Taxi American United Taxi Affiliation Metro Jet Taxi A Setare Inc Leonard Cab Co	-+ 97
4615 - 83503 Tyrone Henderson 5062 - 34841 Sam Mestas 4623 - 27290 Jay Kim	1

```
5997 - 65283 AW Services Inc.
2092 - 61288 Sbeih company
1469 - 64126 Omar Jada
2733 - 74600 Benny Jona
                                    | 1
                                    | 1
2192 - 73487 Zeymane Corp
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
| 1
6057 - 24657 Richard Addo
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
                                   | 1
6574 - Babylon Express Inc.
3094 - 24059 G.L.B. Cab Co | 1
5874 - 73628 Sergey Cab Corp. | 6743 - 78771 Luhak Corp | 1
5074 - 54002 Ahzmi Inc | 1
                                   | 1
                                    | 1
                                   | 1
3623 - 72222 Arrington Enterprises | 1
4053 - 40193 Adwar H. Nikola | 1
                                  | 1
Chicago Star Taxicab
3011 - 66308 JBL Cab Inc.
                                 | 1
```

Запрос, которым тебе удалось решить задачу.

select company_name, count(vehicle_id) as cnt from cabs group by company_name having count(vehicle_id)<100 order by count(vehicle_id) desc;

Задание 3

Таблица с данными за указанный период.

E morty@7302f5b01625: ~

```
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%' then 'Bad' when description like '%storm%' then 'Bad' else 'Good' end as weather_conditions from weather_records where ts between '2017-11-05' and '2017-11-06';

Задание 4 Таблица с данными за указанный период.

amount dese, e er rps. seare_es becheen zotr ii .	13 00.00.00 and 201/ 11 10 23
company_name	trips_amount
Flash Cab	19558
Taxi Affiliation Services	11422
Medallion Leasin Yellow Cab	10367 9888
Taxi Affiliation Service Yellow	J 9299
Chicago Carriage Cab Corp	9181
City Service	8448
Sun Taxi	7701
Star North Management LLC Blue Ribbon Taxi Association Inc.	7455 5953
Choice Taxi Association	5015
Globe Taxi	4383
Dispatch Taxi Affiliation	3355
Nova Taxi Affiliation Llc Patriot Taxi Dba Peace Taxi Associat	3175 2235
Checker Taxi Affiliation	2216
Blue Diamond	2070
Chicago Medallion Management	1955
24 Seven Taxi	1775
Chicago Medallion Leasing INC Checker Taxi	1607 1486
American United	1404
Chicago Independents	1296
KOAM Taxi Association	1259
Chicago Taxicab	1014
Top Cab Affiliation Gold Coast Taxi	978 428
Service Taxi Association	402
5 Star Taxi	310
303 Taxi	250
Setare Inc American United Taxi Affiliation	230 210
Leonard Cab Co	1 147
Metro Jet Taxi A	146
Norshore Cab	127
6742 - 83735 Tasha ride inc	39
3591 - 63480 Chuks Cab 1469 - 64126 Omar Jada	37 36
6743 - 78771 Luhak Corp	33
0118 - 42111 Godfrey S. Awir	33
6574 - Babylon Express Inc.	31
Chicago Star Taxicab 1085 - 72312 N and W Cab Co	29 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 3623 - 72222 Arrington Enterprises	21 20
5074 - 54002 Ahzmi Inc	16
2823 - 73307 Lee Express Inc	15
4623 - 27290 Jay Kim	15
3721 - Santamaria Express, Alvaro Santamaria	
5006 - 39261 Salifu Bawa 2192 - 73487 Zeymane Corp	14 14
6057 - 24657 Richard Addo	13
5997 - 65283 AW Services Inc.	12
Metro Group	11
5062 - 34841 Sam Mestas 4053 - 40193 Adwar H. Nikola	8 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)	

Запрос, которым удалось решить задачу.

select cabs.company_name, count(trips.trip_id) as trips_amount from cabs inner join trips on trip.cab_id where trips.start_ts between '2017-11-15 00:00:00' and '2017-11-16 23:59:59' group by cabs.company_name order by trips_amount desc;