# **Консоль**

## Задание 1

Команда или последовательность команд, которой удалось получить нужные логи:

ls logs/2020/2 - посмотрел есть ли вообще там файлы

grep -Rwe "500." -Rwe ".500$" ~/logs/2020/2 Одним запросом

grep -Rw "500." ~/logs/2020/2 Если нужно отдельно

grep -Rw ".500$" ~/logs/2020/2 Тоже отдельный запрос

Логи:

/home/morty/logs/2020/2/apache\_2020-02-07.txt:115.219.109.40 - - [7/2/2020:21:36:04 +0000] "PUT /users HTTP/1.1" 401 4500

/home/morty/logs/2020/2/apache\_2020-02-07.txt:123.88.234.133 - - [7/2/2020:21:47:36 +0000] "POST /fieldsets HTTP/1.1" 200 5000

/home/morty/logs/2020/2/apache\_2020-02-07.txt:93.241.210.116 - - [7/2/2020:21:58:22 +0000] "GET /auth HTTP/1.1" 201 2500

/home/morty/logs/2020/2/apache\_2020-02-07.txt:238.181.47.48 - - [7/2/2020:22:05:59 +0000] "PUT /customers HTTP/1.1" 403 4500

/home/morty/logs/2020/2/apache\_2020-02-07.txt:206.211.17.4 - - [7/2/2020:22:12:27 +0000] "PUT /playbooks HTTP/1.1" 403 4500

/home/morty/logs/2020/2/apache\_2020-02-12.txt:135.167.192.159 - - [12/2/2020:21:35:55 +0000] "PUT /events HTTP/1.1" 204 3500

/home/morty/logs/2020/2/apache\_2020-02-12.txt:24.148.223.215 - - [12/2/2020:21:39:37 +0000] "DELETE /auth HTTP/1.1" 301 5000

/home/morty/logs/2020/2/apache\_2020-02-11.txt:159.45.86.118 - - [11/2/2020:21:47:57 +0000] "POST /alerts HTTP/1.1" 403 2500

/home/morty/logs/2020/2/apache\_2020-02-11.txt:228.38.237.126 - - [11/2/2020:22:06:14 +0000] "PUT /parsers HTTP/1.1" 204 2500

/home/morty/logs/2020/2/apache\_2020-02-01.txt:72.117.196.205 - - [1/2/2020:21:51:37 +0000] "PUT /users HTTP/1.1" 400 4500

/home/morty/logs/2020/2/apache\_2020-02-03.txt:113.206.161.63 - - [3/2/2020:21:54:25 +0000] "PUT /alerts HTTP/1.1" 401 2500

/home/morty/logs/2020/2/apache\_2020-02-03.txt:204.183.88.223 - - [3/2/2020:22:06:26 +0000] "DELETE /customers HTTP/1.1" 403 4500

/home/morty/logs/2020/2/apache\_2020-02-03.txt:36.28.7.18 - - [3/2/2020:22:08:17 +0000] "POST /users HTTP/1.1" 503 3500

/home/morty/logs/2020/2/apache\_2020-02-02.txt:219.236.254.192 - - [2/2/2020:21:58:20 +0000] "PATCH /parsers HTTP/1.1" 200 5000

/home/morty/logs/2020/2/apache\_2020-02-02.txt:194.48.251.24 - - [2/2/2020:22:04:44 +0000] "GET /auth HTTP/1.1" 400 2500

/home/morty/logs/2020/2/apache\_2020-02-14.txt:151.192.138.203 - - [14/2/2020:21:45:38 +0000] "PATCH /auth HTTP/1.1" 300 4500

/home/morty/logs/2020/2/apache\_2020-02-14.txt:128.20.205.110 - - [14/2/2020:22:12:15 +0000] "PATCH /lists HTTP/1.1" 204 4500

/home/morty/logs/2020/2/apache\_2020-02-08.txt:46.20.41.236 - - [8/2/2020:21:43:57 +0000] "POST /events HTTP/1.1" 300 3500

/home/morty/logs/2020/2/apache\_2020-02-08.txt:223.24.178.30 - - [8/2/2020:21:55:52 +0000] "GET /alerts HTTP/1.1" 404 5000

/home/morty/logs/2020/2/apache\_2020-02-08.txt:228.96.134.28 - - [8/2/2020:21:58:05 +0000] "PATCH /parsers HTTP/1.1" 204 3500

/home/morty/logs/2020/2/apache\_2020-02-08.txt:69.183.68.32 - - [8/2/2020:22:02:51 +0000] "PUT /customers HTTP/1.1" 301 4500

/home/morty/logs/2020/2/apache\_2020-02-08.txt:87.28.205.10 - - [8/2/2020:22:08:52 +0000] "PATCH /auth HTTP/1.1" 401 3500

/home/morty/logs/2020/2/apache\_2020-02-08.txt:156.20.56.221 - - [8/2/2020:22:12:11 +0000] "POST /events HTTP/1.1" 400 3500

/home/morty/logs/2020/2/apache\_2020-02-10.txt:73.222.172.54 - - [10/2/2020:21:43:56 +0000] "POST /customers HTTP/1.1" 503 3500

/home/morty/logs/2020/2/apache\_2020-02-10.txt:229.212.154.136 - - [10/2/2020:21:44:13 +0000] "POST /alerts HTTP/1.1" 300 2500

/home/morty/logs/2020/2/apache\_2020-02-10.txt:70.47.68.226 - - [10/2/2020:22:12:22 +0000] "POST /customers HTTP/1.1" 301 4500

/home/morty/logs/2020/2/apache\_2020-02-19.txt:116.47.146.170 - - [19/2/2020:21:45:56 +0000] "PUT /alerts HTTP/1.1" 500 5000

/home/morty/logs/2020/2/apache\_2020-02-18.txt:26.210.114.177 - - [18/2/2020:21:35:30 +0000] "GET /events HTTP/1.1" 503 2500

/home/morty/logs/2020/2/apache\_2020-02-18.txt:200.121.117.94 - - [18/2/2020:21:58:25 +0000] "POST /collectors HTTP/1.1" 401 2500

/home/morty/logs/2020/2/apache\_2020-02-18.txt:203.225.189.203 - - [18/2/2020:22:12:22 +0000] "PUT /lists HTTP/1.1" 400 5000

/home/morty/logs/2020/2/apache\_2020-02-15.txt:109.63.48.99 - - [15/2/2020:22:02:30 +0000] "PATCH /collectors HTTP/1.1" 200 2500

/home/morty/logs/2020/2/apache\_2020-02-06.txt:117.207.164.42 - - [6/2/2020:22:08:07 +0000] "GET /auth HTTP/1.1" 403 5000

/home/morty/logs/2020/2/apache\_2020-02-06.txt:190.90.158.108 - - [6/2/2020:22:14:11 +0000] "DELETE /alerts HTTP/1.1" 400 3500

/home/morty/logs/2020/2/apache\_2020-02-09.txt:102.183.209.214 - - [9/2/2020:21:53:30 +0000] "GET /customers HTTP/1.1" 300 3500

/home/morty/logs/2020/2/apache\_2020-02-09.txt:109.183.23.57 - - [9/2/2020:22:06:16 +0000] "PATCH /parsers HTTP/1.1" 503 3500

/home/morty/logs/2020/2/apache\_2020-02-09.txt:82.106.89.96 - - [9/2/2020:22:13:51 +0000] "PUT /parsers HTTP/1.1" 400 4500

/home/morty/logs/2020/2/apache\_2020-02-09.txt:192.230.9.247 - - [9/2/2020:22:14:15 +0000] "PUT /events HTTP/1.1" 301 3500

## Задание 2

Команды, которые создают директории bug2 и testlogs:

mkdir bug2

mkdir bug2/testlogs

Команда, которой выбираешь запросы за указанный период. Это те запросы, которыми ты отбираешь логи в файл main.txt:  
grep -R "DELETE /lists" logs/2020/1/apache\_2020-01-0\*.txt>bug2/main.txt

Команды, которыми ты кладёшь логи в файлы 500.txt и 503.txt из main.txt:  
 grep -Rw "500" bug2/main.txt>bug2/testlogs/500.txt

grep -Rw "503" bug2/main.txt>bug2/testlogs/503.txt

500.txt  
logs/2020/1/apache\_2020-01-01.txt:147.185.102.245 - - [1/1/2020:21:56:16 +0000] "DELETE /lists HTTP/1.1" 500 3446

logs/2020/1/apache\_2020-01-01.txt:213.18.145.29 - - [1/1/2020:22:03:58 +0000] "DELETE /lists HTTP/1.1" 500 3401

logs/2020/1/apache\_2020-01-02.txt:194.245.91.116 - - [2/1/2020:21:58:20 +0000] "DELETE /lists HTTP/1.1" 500 3346

logs/2020/1/apache\_2020-01-02.txt:83.46.27.91 - - [2/1/2020:22:00:33 +0000] "DELETE /lists HTTP/1.1" 500 4635

logs/2020/1/apache\_2020-01-02.txt:231.148.197.229 - - [2/1/2020:22:06:24 +0000] "DELETE /lists HTTP/1.1" 500 3156

logs/2020/1/apache\_2020-01-03.txt:96.78.191.98 - - [3/1/2020:21:50:23 +0000] "DELETE /lists HTTP/1.1" 500 4530

logs/2020/1/apache\_2020-01-04.txt:12.136.227.159 - - [4/1/2020:21:35:22 +0000] "DELETE /lists HTTP/1.1" 500 3368

logs/2020/1/apache\_2020-01-04.txt:129.56.252.93 - - [4/1/2020:21:39:24 +0000] "DELETE /lists HTTP/1.1" 500 4128

logs/2020/1/apache\_2020-01-04.txt:132.215.126.118 - - [4/1/2020:21:40:19 +0000] "DELETE /lists HTTP/1.1" 500 3366

logs/2020/1/apache\_2020-01-04.txt:67.178.31.1 - - [4/1/2020:21:43:52 +0000] "DELETE /lists HTTP/1.1" 500 2366

logs/2020/1/apache\_2020-01-04.txt:146.29.129.61 - - [4/1/2020:21:45:39 +0000] "DELETE /lists HTTP/1.1" 500 2447

logs/2020/1/apache\_2020-01-04.txt:223.92.38.69 - - [4/1/2020:22:08:22 +0000] "DELETE /lists HTTP/1.1" 500 4386

logs/2020/1/apache\_2020-01-05.txt:83.123.65.88 - - [5/1/2020:21:45:47 +0000] "DELETE /lists HTTP/1.1" 500 4538

logs/2020/1/apache\_2020-01-05.txt:27.238.157.134 - - [5/1/2020:21:48:24 +0000] "DELETE /lists HTTP/1.1" 500 2264

logs/2020/1/apache\_2020-01-05.txt:128.42.75.55 - - [5/1/2020:21:54:05 +0000] "DELETE /lists HTTP/1.1" 500 3639

logs/2020/1/apache\_2020-01-06.txt:110.226.87.25 - - [6/1/2020:21:41:28 +0000] "DELETE /lists HTTP/1.1" 500 2678

logs/2020/1/apache\_2020-01-06.txt:152.179.35.38 - - [6/1/2020:21:49:20 +0000] "DELETE /lists HTTP/1.1" 500 4038

logs/2020/1/apache\_2020-01-06.txt:183.55.199.161 - - [6/1/2020:21:57:27 +0000] "DELETE /lists HTTP/1.1" 500 2983

logs/2020/1/apache\_2020-01-06.txt:193.20.89.213 - - [6/1/2020:22:00:04 +0000] "DELETE /lists HTTP/1.1" 500 2337

logs/2020/1/apache\_2020-01-07.txt:209.161.43.167 - - [7/1/2020:21:41:54 +0000] "DELETE /lists HTTP/1.1" 500 4546

logs/2020/1/apache\_2020-01-07.txt:37.51.204.79 - - [7/1/2020:22:04:43 +0000] "DELETE /lists HTTP/1.1" 500 4196

logs/2020/1/apache\_2020-01-08.txt:137.16.176.177 - - [8/1/2020:22:06:10 +0000] "DELETE /lists HTTP/1.1" 500 4818

logs/2020/1/apache\_2020-01-08.txt:9.208.230.202 - - [8/1/2020:22:11:48 +0000] "DELETE /lists HTTP/1.1" 500 3100

logs/2020/1/apache\_2020-01-09.txt:198.181.19.16 - - [9/1/2020:22:08:41 +0000] "DELETE /lists HTTP/1.1" 500 4498

503.txt.  
logs/2020/1/apache\_2020-01-01.txt:19.160.250.159 - - [1/1/2020:21:41:44 +0000] "DELETE /lists HTTP/1.1" 503 4750

logs/2020/1/apache\_2020-01-01.txt:144.27.121.7 - - [1/1/2020:21:49:31 +0000] "DELETE /lists HTTP/1.1" 503 4277

logs/2020/1/apache\_2020-01-01.txt:3.206.159.146 - - [1/1/2020:21:51:54 +0000] "DELETE /lists HTTP/1.1" 503 4915

logs/2020/1/apache\_2020-01-01.txt:194.84.118.234 - - [1/1/2020:22:08:37 +0000] "DELETE /lists HTTP/1.1" 503 3791

logs/2020/1/apache\_2020-01-02.txt:196.214.162.172 - - [2/1/2020:21:57:38 +0000] "DELETE /lists HTTP/1.1" 503 3741

logs/2020/1/apache\_2020-01-02.txt:109.34.83.0 - - [2/1/2020:22:08:33 +0000] "DELETE /lists HTTP/1.1" 503 2354

logs/2020/1/apache\_2020-01-02.txt:144.210.73.130 - - [2/1/2020:22:12:40 +0000] "DELETE /lists HTTP/1.1" 503 4554

logs/2020/1/apache\_2020-01-03.txt:21.137.106.32 - - [3/1/2020:21:48:20 +0000] "DELETE /lists HTTP/1.1" 503 4335

logs/2020/1/apache\_2020-01-03.txt:199.241.232.242 - - [3/1/2020:21:58:01 +0000] "DELETE /lists HTTP/1.1" 503 3502

logs/2020/1/apache\_2020-01-03.txt:52.77.221.51 - - [3/1/2020:22:06:15 +0000] "DELETE /lists HTTP/1.1" 503 4392

logs/2020/1/apache\_2020-01-03.txt:73.51.7.29 - - [3/1/2020:22:09:01 +0000] "DELETE /lists HTTP/1.1" 503 3872

logs/2020/1/apache\_2020-01-03.txt:81.20.165.70 - - [3/1/2020:22:11:01 +0000] "DELETE /lists HTTP/1.1" 503 3325

logs/2020/1/apache\_2020-01-04.txt:110.123.248.237 - - [4/1/2020:21:46:28 +0000] "DELETE /lists HTTP/1.1" 503 3666

logs/2020/1/apache\_2020-01-04.txt:142.26.155.9 - - [4/1/2020:21:54:30 +0000] "DELETE /lists HTTP/1.1" 503 4927

logs/2020/1/apache\_2020-01-04.txt:242.124.191.149 - - [4/1/2020:21:58:46 +0000] "DELETE /lists HTTP/1.1" 503 3681

logs/2020/1/apache\_2020-01-04.txt:110.97.214.228 - - [4/1/2020:21:58:52 +0000] "DELETE /lists HTTP/1.1" 503 3557

logs/2020/1/apache\_2020-01-05.txt:237.5.185.3 - - [5/1/2020:21:40:13 +0000] "DELETE /lists HTTP/1.1" 503 4136

logs/2020/1/apache\_2020-01-05.txt:200.199.223.244 - - [5/1/2020:21:50:19 +0000] "DELETE /lists HTTP/1.1" 503 3720

logs/2020/1/apache\_2020-01-07.txt:88.89.12.250 - - [7/1/2020:21:37:52 +0000] "DELETE /lists HTTP/1.1" 503 4832

logs/2020/1/apache\_2020-01-07.txt:156.143.245.173 - - [7/1/2020:21:48:03 +0000] "DELETE /lists HTTP/1.1" 503 2520

logs/2020/1/apache\_2020-01-07.txt:4.98.74.61 - - [7/1/2020:21:48:12 +0000] "DELETE /lists HTTP/1.1" 503 2291

logs/2020/1/apache\_2020-01-08.txt:180.150.222.142 - - [8/1/2020:21:41:43 +0000] "DELETE /lists HTTP/1.1" 503 4975

logs/2020/1/apache\_2020-01-08.txt:244.190.76.89 - - [8/1/2020:21:46:13 +0000] "DELETE /lists HTTP/1.1" 503 2015

logs/2020/1/apache\_2020-01-08.txt:133.169.105.213 - - [8/1/2020:21:47:38 +0000] "DELETE /lists HTTP/1.1" 503 3369

logs/2020/1/apache\_2020-01-08.txt:247.226.78.194 - - [8/1/2020:21:50:04 +0000] "DELETE /lists HTTP/1.1" 503 2968

logs/2020/1/apache\_2020-01-08.txt:192.148.191.93 - - [8/1/2020:22:07:39 +0000] "DELETE /lists HTTP/1.1" 503 3090

logs/2020/1/apache\_2020-01-09.txt:120.245.57.164 - - [9/1/2020:21:51:54 +0000] "DELETE /lists HTTP/1.1" 503 2794

logs/2020/1/apache\_2020-01-09.txt:234.142.98.227 - - [9/1/2020:22:04:39 +0000] "DELETE /lists HTTP/1.1" 503 3735

# 

# 

# 

# 

# **База данных**

## Задание 1

Число уникальных погодных условий:

record\_unic

----------------------------------

light intensity drizzle

drizzle

light rain

mist

broken clouds

scattered clouds

few clouds

thunderstorm with drizzle

thunderstorm with light rain

sky is clear

thunderstorm with rain

moderate rain

light snow

proximity thunderstorm with rain

fog

haze

proximity thunderstorm

overcast clouds

heavy intensity rain

(19 rows)

Запрос, которым тебе удалось решить задачу.  
SELECT DISTINCT description AS record\_unic FROM weather\_records;

## 

## 

## 

## 

## 

## 

## Задание 2

Список компаний 10 компаний.

company\_name

----------------------------------------------

Metro Group

Blue Diamond

3556 - 36214 RC Andrews Cab

Norshore Cab

3721 - Santamaria Express, Alvaro Santamaria

2809 - 95474 C & D Cab Co Inc.

2241 - 44667 - Felman Corp, Manuel Alonso

3620 - 52292 David K. Cab Corp.

2823 - 73307 Lee Express Inc

6057 - 24657 Richard Addo

(10 rows)

Запрос, которым тебе удалось решить задачу.

SELECT DISTINCT company\_name FROM cabs WHERE company\_name NOT LIKE '%Taxi%' AND company\_name NOT LIKE '%Chicago%' LIMIT 10;

## Задание 3

Таблица с данными за указанный период.

cab\_id | trip

--------+------

4695 | 40

3124 | 40

1780 | 40

719 | 40

4137 | 41

4189 | 41

4100 | 42

1945 | 43

1503 | 43

4039 | 43

4806 | 44

1981 | 44

803 | 45

4281 | 46

2451 | 47

1599 | 47

2384 | 48

(17 rows)

Запрос, которым удалось решить задачу.

SELECT trips.cab\_id, COUNT(trips.trip\_id) AS trip FROM trips INNER JOIN cabs ON cabs.cab\_id = trips.cab\_id WHERE start\_ts BETWEEN '2017-11-05 00:00:00' AND '2017-11-05 23:59:59' GROUP BY trips.cab\_id HAVING COUNT(trips.trip\_id) >= 40 ORDER BY trip ;

## Задание 4

Таблица с данными за указанный период.

name | poezdki

-----------------------+---------

Albany Park | 365

Andersonville | 81

Archer Heights | 18

Armour Square | 146

Ashburn | 32

Auburn Gresham | 41

Austin | 96

Avalon Park | 12

Avondale | 502

Belmont Cragin | 116

Beverly | 24

Boystown | 129

Bridgeport | 195

Brighton Park | 51

Bucktown | 261

Burnside | 5

Calumet Heights | 17

Chatham | 60

Chicago Lawn | 24

Chinatown | 71

Clearing | 31

Douglas | 366

Dunning | 59

East Side | 4

East Village | 2762

Edgewater | 1342

Edison Park | 36

Englewood | 58

Fuller Park | 11

Gage Park | 10

Garfield Park | 134

Garfield Ridge | 2139

Gold Coast | 3682

Grand Boulevard | 117

Grand Crossing | 43

Grant Park | 4962

Hegewisch | 4

Hermosa | 57

Humboldt Park | 193

Hyde Park | 646

Irving Park | 680

Jackson Park | 43

Jefferson Park | 167

Kenwood | 190

Lake View | 5757

Lincoln Park | 3153

Lincoln Square | 887

Little Italy, UIC | 2074

Little Village | 63

Logan Square | 1457

Loop | 29559

Lower West Side | 375

Mckinley Park | 230

Montclare | 13

Morgan Park | 18

Mount Greenwood | 5

Museum Campus | 2147

Near South Side | 1491

New City | 46

North Center | 1019

North Lawndale | 73

North Park | 168

Norwood Park | 233

O'Hare | 6804

Oakland | 45

Old Town | 1389

Portage Park | 266

Pullman | 11

River North | 23279

Riverdale | 5

Rogers Park | 681

Roseland | 31

Rush & Division | 1060

Sauganash,Forest Glen | 104

Sheffield & DePaul | 2749

South Chicago | 31

South Deering | 15

South Shore | 93

Streeterville | 15811

Ukrainian Village | 84

Undef | 6

United Center | 408

Uptown | 1962

Washington Heights | 28

Washington Park | 45

West Elsdon | 12

West Lawn | 19

West Loop | 14809

West Pullman | 15

West Ridge | 703

West Town | 1543

Wicker Park | 467

Woodlawn | 77

Wrigleyville | 35

(94 rows)

Запрос, которым удалось решить задачу.

SELECT neighborhoods.name, COUNT(trips.dropoff\_location\_id) AS poezdki FROM neighborhoods INNER JOIN trips ON trips.dropoff\_location\_id = neighborhoods.neighborhood\_id WHERE end\_ts BETWEEN '2017-11-16 00:00:00' AND '2017-11-17 23:59:59' GROUP BY neighborhoods.name ;