Консоль

Задание 1
Команда или последовательность команд, которой удалось получить нужные логи:grep
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
cd bug1
mkdir events

Команда, которой выбираешь запросы за указанный период. Это те запросы, которыми
ты отбираешь логи в файл main.txt:
 grep -h "21:3" ~/logs/2019/12/apache_2019-12-30.txt >>~/bug1/main.txt

 grep -h "21:3" ~/logs/2019/12/apache_2019-12-31.txt >>~/bug1/main.txt

Команды, которыми ты кладёшь логи в файлы 400.txt и 500.txt из main.txt:
grep -h ' 400 ' main.txt >> 400.txt

grep -h ' 500 ' main.txt >> 500.txt

400.txt

80.57.170.51 - - [30/12/2019:21:35:12 +0000] "DELETE /users HTTP/1.1" 400 3623

204.235.176.118 - - [30/12/2019:21:35:13 +0000] "POST /users HTTP/1.1" 400 4704

82.95.203.67 - - [30/12/2019:21:35:19 +0000] "DELETE /lists HTTP/1.1" 400 3737

155.242.215.46 - - [30/12/2019:21:35:38 +0000] "POST /playbooks HTTP/1.1" 400 4450

189.176.85.0 - - [30/12/2019:21:35:39 +0000] "PATCH /alerts HTTP/1.1" 400 2732

13.108.71.71 - - [30/12/2019:21:35:43 +0000] "PATCH /events HTTP/1.1" 400 3410

195.213.133.182 - - [30/12/2019:21:35:46 +0000] "PUT /customers HTTP/1.1" 400 3085

235.243.133.78 - - [30/12/2019:21:35:47 +0000] "PATCH /customers HTTP/1.1" 400 3264

192.57.115.49 - - [30/12/2019:21:35:55 +0000] "POST /parsers HTTP/1.1" 400 2457

71.0.49.244 - - [30/12/2019:21:35:55 +0000] "PUT /collectors HTTP/1.1" 400 2785

224.159.206.126 - - [30/12/2019:21:36:02 +0000] "DELETE /customers HTTP/1.1" 400 4569

131.35.106.246 - - [30/12/2019:21:36:04 +0000] "DELETE /lists HTTP/1.1" 400 2578

216.24.42.208 - - [30/12/2019:21:36:06 +0000] "GET /parsers HTTP/1.1" 400 4597

123.53.150.160 - - [30/12/2019:21:37:19 +0000] "PATCH /events HTTP/1.1" 400 4379

61.129.127.103 - - [30/12/2019:21:37:32 +0000] "GET /lists HTTP/1.1" 400 2575

90.216.4.78 - - [30/12/2019:21:37:34 +0000] "PATCH /lists HTTP/1.1" 400 3899

204.250.214.208 - - [30/12/2019:21:37:36 +0000] "PATCH /parsers HTTP/1.1" 400 4742

79.214.240.98 - - [30/12/2019:21:37:37 +0000] "POST /fieldsets HTTP/1.1" 400 4441

65.47.42.12 - - [30/12/2019:21:37:39 +0000] "PATCH /customers HTTP/1.1" 400 2500

251.118.141.34 - - [30/12/2019:21:37:41 +0000] "POST /customers HTTP/1.1" 400 3519

205.20.166.196 - - [30/12/2019:21:37:51 +0000] "POST /users HTTP/1.1" 400 4032

156.217.3.46 - - [30/12/2019:21:37:52 +0000] "PATCH /parsers HTTP/1.1" 400 2020

48.240.198.167 - - [30/12/2019:21:37:57 +0000] "PATCH /playbooks HTTP/1.1" 400 4100

101.255.159.211 - - [30/12/2019:21:37:59 +0000] "GET /auth HTTP/1.1" 400 2324

80.76.98.203 - - [30/12/2019:21:38:00 +0000] "POST /playbooks HTTP/1.1" 400 3045

85.64.63.255 - - [30/12/2019:21:38:13 +0000] "PATCH /collectors HTTP/1.1" 400 2291

184.79.247.161 - - [30/12/2019:21:38:13 +0000] "PUT /alerts HTTP/1.1" 400 3557

93.2.134.22 - - [30/12/2019:21:39:39 +0000] "DELETE /alerts HTTP/1.1" 400 3701

86.34.86.182 - - [31/12/2019:21:35:10 +0000] "POST /auth HTTP/1.1" 400 3626

167.37.16.117 - - [31/12/2019:21:35:17 +0000] "PATCH /customers HTTP/1.1" 400 3294

199.128.92.19 - - [31/12/2019:21:35:43 +0000] "PUT /users HTTP/1.1" 400 4180

162.152.99.143 - - [31/12/2019:21:35:59 +0000] "PUT /users HTTP/1.1" 400 4606

83.115.59.224 - - [31/12/2019:21:37:26 +0000] "GET /alerts HTTP/1.1" 400 3489

194.10.97.226 - - [31/12/2019:21:37:31 +0000] "DELETE /lists HTTP/1.1" 400 2447

180.99.214.40 - - [31/12/2019:21:37:44 +0000] "DELETE /alerts HTTP/1.1" 400 2077

154.152.205.4 - - [31/12/2019:21:37:50 +0000] "GET /playbooks HTTP/1.1" 400 3324

197.82.125.54 - - [31/12/2019:21:37:52 +0000] "PUT /fieldsets HTTP/1.1" 400 4365

115.89.87.219 - - [31/12/2019:21:38:06 +0000] "PUT /playbooks HTTP/1.1" 400 2589

100.77.15.14 - - [31/12/2019:21:38:07 +0000] "GET /fieldsets HTTP/1.1" 400 4911

22.33.159.242 - - [31/12/2019:21:38:07 +0000] "GET /playbooks HTTP/1.1" 400 3955

149.148.229.11 - - [31/12/2019:21:39:16 +0000] "GET /users HTTP/1.1" 400 2071

236.107.64.192 - - [31/12/2019:21:39:17 +0000] "PATCH /users HTTP/1.1" 400 2791

24.156.105.39 - - [31/12/2019:21:39:23 +0000] "GET /lists HTTP/1.1" 400 2902

193.50.164.254 - - [31/12/2019:21:39:23 +0000] "PUT /playbooks HTTP/1.1" 400 3296

18.123.104.91 - - [31/12/2019:21:39:52 +0000] "GET /collectors HTTP/1.1" 400 4372

234.218.148.4 - - [31/12/2019:21:39:54 +0000] "PUT /users HTTP/1.1" 400 2509
500.txt.
64.250.112.189 - - [30/12/2019:21:35:13 +0000] "PUT /parsers HTTP/1.1" 500 4639

193.253.101.180 - - [30/12/2019:21:35:31 +0000] "PATCH /alerts HTTP/1.1" 500 2944

197.106.117.194 - - [30/12/2019:21:35:31 +0000] "PATCH /parsers HTTP/1.1" 500 3519

247.124.71.67 - - [30/12/2019:21:35:45 +0000] "PUT /alerts HTTP/1.1" 500 2746

62.88.204.119 - - [30/12/2019:21:35:51 +0000] "PUT /auth HTTP/1.1" 500 2666

125.156.142.26 - - [30/12/2019:21:36:01 +0000] "PATCH /events HTTP/1.1" 500 3460

144.170.212.70 - - [30/12/2019:21:36:04 +0000] "DELETE /parsers HTTP/1.1" 500 2599

59.39.200.252 - - [30/12/2019:21:36:05 +0000] "GET /alerts HTTP/1.1" 500 2650

150.136.200.100 - - [30/12/2019:21:37:24 +0000] "POST /lists HTTP/1.1" 500 2684

84.81.25.45 - - [30/12/2019:21:37:25 +0000] "POST /auth HTTP/1.1" 500 2052

30.222.160.141 - - [30/12/2019:21:37:30 +0000] "PATCH /parsers HTTP/1.1" 500 2017

117.87.158.36 - - [30/12/2019:21:37:34 +0000] "POST /fieldsets HTTP/1.1" 500 4056

212.153.128.212 - - [30/12/2019:21:37:42 +0000] "PUT /fieldsets HTTP/1.1" 500 3259

58.188.83.217 - - [30/12/2019:21:37:46 +0000] "POST /playbooks HTTP/1.1" 500 3947

193.123.131.146 - - [30/12/2019:21:37:47 +0000] "PUT /lists HTTP/1.1" 500 3902

182.7.179.91 - - [30/12/2019:21:37:48 +0000] "GET /users HTTP/1.1" 500 2950

10.25.168.164 - - [30/12/2019:21:38:05 +0000] "PATCH /playbooks HTTP/1.1" 500 3858

215.201.210.173 - - [30/12/2019:21:38:11 +0000] "PATCH /customers HTTP/1.1" 500 3277

179.241.103.167 - - [30/12/2019:21:39:23 +0000] "POST /lists HTTP/1.1" 500 3669

147.188.170.252 - - [30/12/2019:21:39:33 +0000] "POST /fieldsets HTTP/1.1" 500 3313

1.249.123.189 - - [30/12/2019:21:39:36 +0000] "PATCH /alerts HTTP/1.1" 500 4734

124.114.135.105 - - [30/12/2019:21:39:41 +0000] "PATCH /customers HTTP/1.1" 500 3348

35.215.100.202 - - [30/12/2019:21:39:43 +0000] "PUT /alerts HTTP/1.1" 500 4345

86.222.23.128 - - [30/12/2019:21:39:44 +0000] "PATCH /alerts HTTP/1.1" 500 2230

20.161.75.95 - - [30/12/2019:21:39:48 +0000] "DELETE /users HTTP/1.1" 500 2412

196.18.151.117 - - [30/12/2019:21:39:55 +0000] "PUT /events HTTP/1.1" 500 4439

77.101.138.151 - - [30/12/2019:21:39:57 +0000] "PUT /lists HTTP/1.1" 500 2194

64.250.112.189 - - [30/12/2019:21:35:13 +0000] "PUT /parsers HTTP/1.1" 500 4639

193.253.101.180 - - [30/12/2019:21:35:31 +0000] "PATCH /alerts HTTP/1.1" 500 2944

197.106.117.194 - - [30/12/2019:21:35:31 +0000] "PATCH /parsers HTTP/1.1" 500 3519

247.124.71.67 - - [30/12/2019:21:35:45 +0000] "PUT /alerts HTTP/1.1" 500 2746

62.88.204.119 - - [30/12/2019:21:35:51 +0000] "PUT /auth HTTP/1.1" 500 2666

125.156.142.26 - - [30/12/2019:21:36:01 +0000] "PATCH /events HTTP/1.1" 500 3460

144.170.212.70 - - [30/12/2019:21:36:04 +0000] "DELETE /parsers HTTP/1.1" 500 2599

59.39.200.252 - - [30/12/2019:21:36:05 +0000] "GET /alerts HTTP/1.1" 500 2650

150.136.200.100 - - [30/12/2019:21:37:24 +0000] "POST /lists HTTP/1.1" 500 2684

84.81.25.45 - - [30/12/2019:21:37:25 +0000] "POST /auth HTTP/1.1" 500 2052

30.222.160.141 - - [30/12/2019:21:37:30 +0000] "PATCH /parsers HTTP/1.1" 500 2017

117.87.158.36 - - [30/12/2019:21:37:34 +0000] "POST /fieldsets HTTP/1.1" 500 4056

212.153.128.212 - - [30/12/2019:21:37:42 +0000] "PUT /fieldsets HTTP/1.1" 500 3259

58.188.83.217 - - [30/12/2019:21:37:46 +0000] "POST /playbooks HTTP/1.1" 500 3947

193.123.131.146 - - [30/12/2019:21:37:47 +0000] "PUT /lists HTTP/1.1" 500 3902

182.7.179.91 - - [30/12/2019:21:37:48 +0000] "GET /users HTTP/1.1" 500 2950

10.25.168.164 - - [30/12/2019:21:38:05 +0000] "PATCH /playbooks HTTP/1.1" 500 3858

215.201.210.173 - - [30/12/2019:21:38:11 +0000] "PATCH /customers HTTP/1.1" 500 3277

179.241.103.167 - - [30/12/2019:21:39:23 +0000] "POST /lists HTTP/1.1" 500 3669

147.188.170.252 - - [30/12/2019:21:39:33 +0000] "POST /fieldsets HTTP/1.1" 500 3313

1.249.123.189 - - [30/12/2019:21:39:36 +0000] "PATCH /alerts HTTP/1.1" 500 4734

124.114.135.105 - - [30/12/2019:21:39:41 +0000] "PATCH /customers HTTP/1.1" 500 3348

35.215.100.202 - - [30/12/2019:21:39:43 +0000] "PUT /alerts HTTP/1.1" 500 4345

86.222.23.128 - - [30/12/2019:21:39:44 +0000] "PATCH /alerts HTTP/1.1" 500 2230

20.161.75.95 - - [30/12/2019:21:39:48 +0000] "DELETE /users HTTP/1.1" 500 2412

196.18.151.117 - - [30/12/2019:21:39:55 +0000] "PUT /events HTTP/1.1" 500 4439

77.101.138.151 - - [30/12/2019:21:39:57 +0000] "PUT /lists HTTP/1.1" 500 2194

208.205.133.127 - - [31/12/2019:21:35:17 +0000] "DELETE /alerts HTTP/1.1" 500 4561

20.145.255.91 - - [31/12/2019:21:35:30 +0000] "GET /parsers HTTP/1.1" 500 3051

91.66.134.13 - - [31/12/2019:21:35:53 +0000] "POST /lists HTTP/1.1" 500 3319

31.88.211.206 - - [31/12/2019:21:35:57 +0000] "DELETE /events HTTP/1.1" 500 2325

171.37.114.114 - - [31/12/2019:21:37:39 +0000] "DELETE /fieldsets HTTP/1.1" 500 3253

223.157.242.167 - - [31/12/2019:21:37:59 +0000] "POST /users HTTP/1.1" 500 2283

98.181.102.34 - - [31/12/2019:21:38:06 +0000] "PATCH /fieldsets HTTP/1.1" 500 4672

254.74.22.79 - - [31/12/2019:21:38:06 +0000] "PUT /lists HTTP/1.1" 500 2259

103.46.238.3 - - [31/12/2019:21:38:09 +0000] "PUT /lists HTTP/1.1" 500 3992

41.62.205.107 - - [31/12/2019:21:39:20 +0000] "PATCH /alerts HTTP/1.1" 500 3631

22.53.105.197 - - [31/12/2019:21:39:31 +0000] "DELETE /collectors HTTP/1.1" 500 4202

178.22.133.42 - - [31/12/2019:21:39:43 +0000] "PUT /alerts HTTP/1.1" 500 4648

102.247.13.50 - - [31/12/2019:21:39:55 +0000] "PATCH /auth HTTP/1.1" 500 3736

База данных

Задание1

Число автомобилей:

5529

Запрос, которым тебе удалось решить задачу.

select count(cab_id) as cnt from cabs;

```
chicago_taxi=# select count(cab_id) as cnt from cabs;
 cnt
------
 5529
(1 row)
```

Задание 2

Список компаний с числом автомобилей меньше 100.

51

```
                     company                      | 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
 Chicago Star Taxicab                             |   1
 3011 - 66308 JBL Cab Inc.                        |   1
(51 rows)
```

Запрос, которым тебе удалось решить задачу.

Задание 3

Таблица с данными за указанный период.

```
You are now connected to database "chicago_taxi" as user "morty".
chicago_taxi=# SELECT ts, CASE WHEN description LIKE '%rain%' OR description LIKE '%storm%' T
HEN 'Bad' ELSE 'Good' END AS weather_conditions FROM weather_records WHERE ts BETWEEN '2017-1
1-05' AND '2017-11-06';
         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' AND '2017-11-06';

Задание 4

Таблица с данными за указанный период.

```
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,count(cabs.company_name) as trips_amount
FROM cabs INNER JOIN trips on trips.cab_id = cabs.cab_id WHERE start_ts::date between
'2017-11-15' and '2017-11-16' GROUP BY cabs.company_name ORDER BY trips_amount
desc; (Сортировка сделана как сказанно в задании по trips_amount)