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# **Консоль**

## Задание 1

Команда или последовательность команд, которой удалось получить нужные логи:

morty@2c095a8c5984:cd logs/2019/12

morty@2c095a8c5984:~/logs/2019/12$ 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:

morty@e987d7d665c8:~$ mkdir bug1

morty@e987d7d665c8:~$ mkdir bug1/events

Команда, которой выбираешь запросы за указанный период. Это те запросы, которыми ты отбираешь логи в файл main.txt:  
cat apache\_2019-12-30.txt | grep ":21:3" | grep "HTTP/1.1\" 400\|HTTP/1.1\" 500" > ~/bug1/main.txt

cat apache\_2019-12-31.txt | grep ":21:3" | grep "HTTP/1.1\" 400\|HTTP/1.1\" 500" >> ~/bug1/main.txt

Команды, которыми ты кладёшь логи в файлы 400.txt и 500.txt из main.txt:  
cat main.txt | grep "HTTP/1.1\" 400" > ~/bug1/events/400.txt

cat main.txt | grep "HTTP/1.1\" 500" > ~/bug1/events/500.txt

*“при текущих запросах в файле логов с 500 будет ошибка 400 (в блоке за 30ое число). Необходимо понять, почему так получилось и какие правки необходимо внести в оба запроса, чтобы подобные ситуации не произошли в обратную сторону. В запросы нужно внести изменения.”*

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

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**

## Задание 1

Число автомобилей:  
 cars

------

5500

(1 row)

Запрос, которым тебе удалось решить задачу.  
chicago\_taxi=# SELECT COUNT(DISTINCT vehicle\_id) AS cars FROM cabs;

## Задание 2

Список компаний с числом автомобилей меньше 100. Отсортированы значения по убыванию. “*не хватает сортировки, согласно заданию”*

| cnt | company\_name |
| --- | --- |
| 97 | Nova Taxi Affiliation Llc |
| 89 | Patriot Taxi Dba Peace Taxi Associat |
| 85 | Blue Diamond |
| 81 | Checker Taxi Affiliation |
| 80 | Chicago Medallion Management |
| 69 | Chicago Independents |
| 67 | 24 Seven Taxi |
| 60 | Checker Taxi |
| 55 | American United |
| 53 | Chicago Medallion Leasing INC |
| 49 | Top Cab Affiliation |
| 48 | KOAM Taxi Association |
| 38 | Chicago Taxicab |
| 34 | Norshore Cab |
| 20 | Gold Coast Taxi |
| 20 | Metro Group |
| 18 | Service Taxi Association |
| 14 | 5 Star Taxi |
| 8 | American United Taxi Affiliation |
| 8 | Metro Jet Taxi A |
| 7 | Setare Inc |
| 5 | Leonard Cab Co |
| 1 | 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. |
| (51 rows) | |

Запрос, которым тебе удалось решить задачу.

SELECT COUNT(cab\_id) AS cnt, company\_name AS company\_name FROM cabs GROUP BY company\_name HAVING COUNT(cab\_id) < 100 ORDER BY cnt DESC;

## Задание 3

Таблица с данными за указанный период. “*новому столбцу нужно дать наименование, согласно заданию”*

| ts | weather\_conditions |
| --- | --- |
| 05.11.2017 0:00 | Good |
| 05.11.2017 1:00 | Bad |
| 05.11.2017 2:00 | Good |
| 05.11.2017 3:00 | Good |
| 05.11.2017 4:00 | Bad |
| 05.11.2017 5:00 | Bad |
| 05.11.2017 6:00 | Good |
| 05.11.2017 7:00 | Good |
| 05.11.2017 8:00 | Good |
| 05.11.2017 9:00 | Good |
| 05.11.2017 10:00 | Good |
| 05.11.2017 11:00 | Good |
| 05.11.2017 12:00 | Good |
| 05.11.2017 13:00 | Good |
| 05.11.2017 14:00 | Bad |
| 05.11.2017 15:00 | Good |
| 05.11.2017 16:00 | Bad |
| 05.11.2017 17:00 | Good |
| 05.11.2017 18:00 | Bad |
| 05.11.2017 19:00 | Bad |
| 05.11.2017 20:00 | Bad |
| 05.11.2017 21:00 | Good |
| 05.11.2017 22:00 | Good |
| 05.11.2017 23:00 | Good |
| 06.11.2017 0:00 | Good |
| (25 rows) |  |

Запрос, которым удалось решить задачу.

SELECT ts AS 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';

## 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 In | 5953 |
| Choice Taxi Association | 5015 |
| Globe Taxi | 4383 |
| Dispatch Taxi Affiliation | 3355 |
| Nova Taxi Affiliation Llc | 3175 |
| Patriot Taxi Dba Peace Taxi Ass | 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) | |

Запрос, которым удалось решить задачу.

SELECT cabs.company\_name AS company\_name, COUNT(trips.trip\_id) AS trips\_amount FROM trips INNER JOIN cabs ON cabs.cab\_id = trips.cab\_id WHERE CAST(trips.start\_ts AS date) BETWEEN '2017-11-15:00:00:00' AND '2017-11-16:23:59:59' GROUP BY company\_name ORDER BY trips\_amount DESC;