Задание 1

Команда или последовательность команд, которой удалось получить нужные логи.

$ cd logs

$ cd 2019

$ cd 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

Задание 2

Команды, которые создают директории bug1 и events.

$ mkdir bug1

$ touch main.txt

$ mkdir ~/bug1/events

$ touch ~/bug1/events/400.txt

$ touch ~/bug1/events/500.txt

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

$ grep -R "30/12/2019:21:3" ~/logs/2019/12 > main.txt

$ grep -R "31/12/2019:21:3" ~/logs/2019/12 >> main.txt

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

$ cd ~/bug1/events

$ grep " 400 " ../../main.txt > 400.txt

$ grep " 500 " ../../main.txt > 500.txt

400.txt

1:37:44 +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

500.txt.

1:35:30 +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

Задание 3

Число автомобилей

5529

Запрос, которым тебе удалось решить задачу.

SELECT COUNT (\*) AS cnt FROM cabs;

Задание 4

Список компаний с числом автомобилей меньше 100.

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

Задание 5

Полученная таблица с данными за указанный период.

ts | weather\_conditions

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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 00:00:00' AND '2017-11-06 00:00:00';

Задание 6

Полученная таблица с данными за указанный период.

trips\_amount | company\_name

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19558 | Flash Cab

11422 | Taxi Affiliation Services

10367 | Medallion Leasin

9888 | Yellow Cab

9299 | Taxi Affiliation Service Yellow

9181 | Chicago Carriage Cab Corp

8448 | City Service

7701 | Sun Taxi

7455 | Star North Management LLC

5953 | Blue Ribbon Taxi Association Inc.

5015 | Choice Taxi Association

4383 | Globe Taxi

3355 | Dispatch Taxi Affiliation

3175 | Nova Taxi Affiliation Llc

2235 | Patriot Taxi Dba Peace Taxi Associat

2216 | Checker Taxi Affiliation

2070 | Blue Diamond

1955 | Chicago Medallion Management

1775 | 24 Seven Taxi

1607 | Chicago Medallion Leasing INC

1486 | Checker Taxi

1404 | American United

1296 | Chicago Independents

1259 | KOAM Taxi Association

1014 | Chicago Taxicab

978 | Top Cab Affiliation

428 | Gold Coast Taxi

402 | Service Taxi Association

310 | 5 Star Taxi

250 | 303 Taxi

230 | Setare Inc

210 | American United Taxi Affiliation

147 | Leonard Cab Co

146 | Metro Jet Taxi A

127 | Norshore Cab

39 | 6742 - 83735 Tasha ride inc

37 | 3591 - 63480 Chuks Cab

36 | 1469 - 64126 Omar Jada

33 | 6743 - 78771 Luhak Corp

33 | 0118 - 42111 Godfrey S.Awir

31 | 6574 - Babylon Express Inc.

29 | Chicago Star Taxicab

29 | 1085 - 72312 N and W Cab Co

29 | 2809 - 95474 C & D Cab Co Inc.

27 | 2092 - 61288 Sbeih company

25 | 3011 - 66308 JBL Cab Inc.

21 | 3620 - 52292 David K. Cab Corp.

21 | 4615 - 83503 Tyrone Henderson

20 | 3623 - 72222 Arrington Enterprises

16 | 5074 - 54002 Ahzmi Inc

15 | 2823 - 73307 Lee Express Inc

15 | 4623 - 27290 Jay Kim

14 | 3721 - Santamaria Express, Alvaro Santamaria

14 | 5006 - 39261 Salifu Bawa

14 | 2192 - 73487 Zeymane Corp

13 | 6057 - 24657 Richard Addo

12 | 5997 - 65283 AW Services Inc.

11 | Metro Group

8 | 5062 - 34841 Sam Mestas

7 | 4053 - 40193 Adwar H. Nikola

7 | 2733 - 74600 Benny Jona

5 | 5874 - 73628 Sergey Cab Corp.

3 | 2241 - 44667 - Felman Corp, Manuel Alonso

2 | 3556 - 36214 RC Andrews Cab

(64 rows)

Запрос, которым удалось решить задачу.

SELECT COUNT (trip\_id) AS trips\_amount, company\_name 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 00:00:00' GROUP BY company\_name ORDER BY trips\_amount DESC;