# The Console

## **Task 1**

1: Enter the command or sequence of commands that returned the required logs:

grep -R ^233.201. ~/logs/2019/12



2: Show the results of your search:

/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



## Task 2

1: Enter the commands you used to create the /bug1 and /events directories:

mkdir ~/bug1

mkdir ~/bug1/events



2: Enter the commands you used to select logs for the specified periods. These are the requests that you use to select logs for the main.txt file:

From the ~ directory:

touch ~/bug1/main.txt

grep ' [45]00 ' ~/logs/2019/12/apache\_2019-12-30.txt > ~/bug1/main.txt



3: Enter the commands that you used to put logs from the main.txt file into the 400.txt and 500.txt files:

touch ~/bug1/events/400.txt

touch ~/bug1/events/500.txt

grep " 400 " ~/bug1/main.txt > ~/bug1/events/400.txt

grep " 500 " ~/bug1/main.txt > ~/bug1/events/500.txt



4: Show the results of your work, i.e. the contents of 400.txt and 500.txt. Since there will be many lines of text, provide a selection of the output, as below:

A: The line count of 400.txt. Use wc ~/bug1/events/400.txt to get the answer.

172 1720 13860 /home/morty/bug1/events/400.txt



B: The first 3 lines from 400.txt. Use head -3 ~/bug1/events/400.txt to get the answer.

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



C: The last 3 lines from 400.txt. Use tail -3 ~/bug1/events/400.txt to get the answer.

203.106.235.105 - - [30/12/2019:22:12:38 +0000] "DELETE /events HTTP/1.1" 400 4158

18.211.28.150 - - [30/12/2019:22:12:40 +0000] "DELETE /collectors HTTP/1.1" 400 2212

229.16.123.45 - - [30/12/2019:22:12:54 +0000] "GET /auth HTTP/1.1" 400 2397



D: The line count of 500.txt. Use wc ~/bug1/events/500.txt to get the answer.

156 1560 12554 /home/morty/bug1/events/500.txt



E: The first 3 lines from 500.txt. Use head -3 ~/bug1/events/500.txt to get the answer.

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



F: The last 3 lines from 500.txt. Use tail -3 ~/bug1/events/500.txt to get the answer.

207.6.210.203 - - [30/12/2019:22:12:37 +0000] "PATCH /events HTTP/1.1" 500 4298

33.13.118.148 - - [30/12/2019:22:12:38 +0000] "PUT /alerts HTTP/1.1" 500 4711

107.188.33.199 - - [30/12/2019:22:12:59 +0000] "POST /parsers HTTP/1.1" 500 2833



# 

# **Databases**

## **Task 3**

Please specify the number of cars: 5500

The query that you used to find the number of cars:

SELECT

COUNT(DISTINCT vehicle\_id)

FROM

cabs;



## **Task 4**

List of companies with fewer than 100 cars:

 company\_name | 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



The query that you used to generate the list of companies above:

SELECT

company\_name,

COUNT(vehicle\_id) AS cnt

FROM

cabs

GROUP BY

company\_name

HAVING COUNT(vehicle\_id) < 100

ORDER BY

cnt DESC;

