O console

Tarefa 1

1. Insira o comando ou a sequência de comandos que retornou os logs necessários:

```
None
ls logs/2019/12
cd ~/logs/2019/12
grep -R '^233.201.'
```

2. Mostre os resultados da sua busca:

```
None
apache_2019-12-18.txt:233.201.188.154 - - [18/12/2019:21:46:01
+0000] "DELETE /events HTTP/1.1" 403 3971
apache_2019-12-21.txt:233.201.182.9 - - [21/12/2019:21:56:20
+0000] "PATCH /users HTTP/1.1" 400 4118
```

Tarefa 2

1. Insira os comandos usados para criar os diretórios /bug1 e /events:

```
None
mkdir bug1
mkdir bug1/events
```

2. Insira os comandos usados para selecionar logs dos períodos especificados. Estas são as solicitações usadas para selecionar logs do arquivo `main.txt`:

```
None
 grep ' [45]00 ' ~/logs/2019/12/apache_2019-12-30.txt >
~/bug1/main.txt
```

3. Insira os comandos usados para colocar logs do arquivo `main.txt` nos arquivos `400.txt` e `500.txt`:

```
None
 grep ' 400 ' ~/bug1/main.txt > ~/bug1/events/400.txt


 grep ' 500 ' ~/bug1/main.txt > ~/bug1/events/500.txt
```

4. Mostre os resultados do seu trabalho, ou seja, o conteúdo de `400.txt` e `500.txt`. Como vai haver diversas linhas de texto, forneça uma amostra do resultado conforme abaixo:

A. O total de linhas de `400.txt`. Use `wc ~/bug1/events/400.txt` para obter a resposta.

```
None
172  1720 13860 /home/morty/bug1/events/400.txt
```

B. As 3 primeiras linhas de `400.txt`. Use `head -3 ~/bug1/events/400.txt` para obter a resposta.

```
None
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. As 3 últimas linhas de 400.txt. Use `tail -3 ~/bug1/events/400.txt` para obter a resposta.

```
None
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. O total de linhas de `500.txt`. Use `wc ~/bug1/events/500.txt` para obter a resposta.

```
None
156   1560 12554 /home/morty/bug1/events/500.txt
```

E. As 3 primeiras linhas de `500.txt`. Use `head -3 ~/bug1/events/500.txt` para obter a resposta.

```
None
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. As 3 últimas linhas de `500.txt`. Use `tail -3 ~/bug1/events/500.txt` para obter a resposta.

```
None
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
```

Bases de dados

Tarefa 1

Por favor, especifique o número de carros: <u>5529</u>

A consulta que você usou para encontrar o número de carros:

```
None
SELECT
COUNT(*) AS cnt
FROM CABS;
```

Tarefa 2

Lista de empresas com menos de 100 carros:

```
None
 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.
```

A consulta que você usou para gerar a lista de empresas acima:

```
None
SELECT COUNT(*) AS CNT, COMPANY_NAME

FROM CABS

GROUP BY COMPANY_NAME

HAVING COUNT(*)<100

ORDER BY CNT DESC;
```

Tarefa 3

A tabela com a previsão do tempo para o período especificado.

```
None
```

```
 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
```

A consulta que você usou para criar a tabela acima:

```
None
SELECT
    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 00:00:00' AND ts <= '2017-11-05 23:59:59';
```

Tarefa 4

A tabela com o número de corridas de cada empresa de táxi no período especificado.

```
None
               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 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)
```

A consulta que você usou para criar a tabela acima:

```
None
SELECT
cabs.company_name,
COUNT(trips.trip_id) AS trips_amount
FROM
cabs
INNER JOIN
trips
ON
trips.cab_id = cabs.cab_id
WHERE
CAST(trips.start_ts AS date) BETWEEN '2017-11-15' AND
'2017-11-16'
GROUP BY
company_name
ORDER BY
trips_amount DESC;
```