

Consola

Ejercicio 1

El comando o secuencia de comandos que te proporcionó los registros necesarios:

```
grep -R "^233.201" ~/logs/2019/12
```

Registros:

```
/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
```

Ejercicio 2

Comandos que crean los directorios bug1 y events:

```
mkdir ~/bug1
cd ~/bug1
mkdir events
```

El comando que usas para seleccionar las solicitudes para un periodo especificado. Estas son las solicitudes que usas para obtener registros en el archivo main.txt:

*Escribe el comando aquí

```
cd ~/logs/2019/12
grep "400" apache_2019-12-30.txt > ~/bug1/main.txt
grep "500" apache_2019-12-30.txt > ~/bug1/main.txt
```

Los comandos que usas para colocar los registros en los archivos 400.txt y 500.txt del main.txt:

*Escribe los comandos aquí

```
cd ~/bug1/events
touch 400.txt 500.txt
cd ~/bug1
grep "400" main.txt > events/400.txt
grep "500" main.txt > events/500.txt
```

400.txt

*Texto del archivo

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
96.181.163.104 -- [30/12/2019:21:40:05 +0000] "GET /auth HTTP/1.1" 400 3742
214.73.245.219 -- [30/12/2019:21:40:07 +0000] "PATCH /customers HTTP/1.1" 400 2210
154.176.68.207 -- [30/12/2019:21:40:12 +0000] "PUT /users HTTP/1.1" 400 4037
208.188.132.121 -- [30/12/2019:21:41:26 +0000] "PATCH /events HTTP/1.1" 400 4039
109.227.98.204 -- [30/12/2019:21:41:28 +0000] "PUT /fieldsets HTTP/1.1" 400 4003
180.112.113.198 -- [30/12/2019:21:41:28 +0000] "PUT /lists HTTP/1.1" 400 3384
158.39.50.7 -- [30/12/2019:21:41:40 +0000] "POST /auth HTTP/1.1" 400 2845
162.188.194.100 -- [30/12/2019:21:41:49 +0000] "PATCH /events HTTP/1.1" 400 3716
9.119.204.232 -- [30/12/2019:21:41:59 +0000] "POST /lists HTTP/1.1" 400 2768
109.56.160.55 -- [30/12/2019:21:42:08 +0000] "PUT /lists HTTP/1.1" 400 2310
2.133.18.95 -- [30/12/2019:21:42:08 +0000] "PUT /lists HTTP/1.1" 400 2478
153.203.254.145 -- [30/12/2019:21:42:17 +0000] "POST /playbooks HTTP/1.1" 400 2980
246.94.200.150 -- [30/12/2019:21:43:32 +0000] "PUT /users HTTP/1.1" 400 2352
138.229.101.1 -- [30/12/2019:21:43:34 +0000] "PUT /lists HTTP/1.1" 400 4137
146.1.163.95 -- [30/12/2019:21:43:45 +0000] "POST /parsers HTTP/1.1" 400 2408
69.107.156.141 -- [30/12/2019:21:43:51 +0000] "PATCH /parsers HTTP/1.1" 400 2215
192.32.89.6 -- [30/12/2019:21:43:57 +0000] "PUT /users HTTP/1.1" 400 2640
209.17.202.163 -- [30/12/2019:21:44:03 +0000] "POST /collectors HTTP/1.1" 400 3095
97.134.189.183 -- [30/12/2019:21:44:11 +0000] "GET /events HTTP/1.1" 400 3291
234.33.225.82 -- [30/12/2019:21:44:20 +0000] "DELETE /users HTTP/1.1" 400 4042
163.56.186.56 -- [30/12/2019:21:45:43 +0000] "PUT /collectors HTTP/1.1" 400 4203
137.9.230.148 -- [30/12/2019:21:45:46 +0000] "PUT /collectors HTTP/1.1" 400 3120
71.5.36.70 -- [30/12/2019:21:45:53 +0000] "PATCH /users HTTP/1.1" 400 4251
190.99.101.84 -- [30/12/2019:21:46:18 +0000] "POST /parsers HTTP/1.1" 400 4532
116.61.26.238 -- [30/12/2019:21:46:19 +0000] "PUT /customers HTTP/1.1" 400 3677
122.37.231.40 -- [30/12/2019:21:46:21 +0000] "DELETE /playbooks HTTP/1.1" 400 4013
225.243.146.49 -- [30/12/2019:21:46:28 +0000] "GET /lists HTTP/1.1" 400 3920
170.2.44.139 -- [30/12/2019:21:47:32 +0000] "PATCH /lists HTTP/1.1" 400 4029
226.158.150.116 -- [30/12/2019:21:47:36 +0000] "GET /alerts HTTP/1.1" 400 4213

107.94.241.51 - - [30/12/2019:21:47:40 +0000] "PUT /users HTTP/1.1" 400 3914
122.11.239.148 - - [30/12/2019:21:47:42 +0000] "PATCH /users HTTP/1.1" 400 2998

500.txt.

*Texto del archivo

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
1.178.37.101 - - [30/12/2019:21:40:08 +0000] "GET /customers HTTP/1.1" 500 4728
17.120.125.170 - - [30/12/2019:21:40:10 +0000] "PUT /events HTTP/1.1" 500 4283
25.63.209.148 - - [30/12/2019:21:41:34 +0000] "PATCH /auth HTTP/1.1" 500 4036
58.19.17.39 - - [30/12/2019:21:41:34 +0000] "GET /playbooks HTTP/1.1" 500 4607
33.217.227.221 - - [30/12/2019:21:41:37 +0000] "PATCH /parsers HTTP/1.1" 500 2450
98.214.135.216 - - [30/12/2019:21:41:41 +0000] "POST /fieldsets HTTP/1.1" 500 3381
135.36.132.9 - - [30/12/2019:21:41:43 +0000] "POST /events HTTP/1.1" 500 4755
86.107.93.36 - - [30/12/2019:21:41:51 +0000] "GET /users HTTP/1.1" 500 3680
220.130.246.245 - - [30/12/2019:21:41:57 +0000] "DELETE /parsers HTTP/1.1" 500 3174
42.87.147.170 - - [30/12/2019:21:41:57 +0000] "PUT /auth HTTP/1.1" 500 3685
114.202.174.224 - - [30/12/2019:21:42:06 +0000] "PUT /alerts HTTP/1.1" 500 4725
163.105.41.175 - - [30/12/2019:21:42:11 +0000] "PUT /users HTTP/1.1" 500 4282
74.212.173.190 - - [30/12/2019:21:42:13 +0000] "POST /customers HTTP/1.1" 500 4335
31.100.72.146 - - [30/12/2019:21:42:14 +0000] "GET /parsers HTTP/1.1" 500 3886
213.153.8.226 - - [30/12/2019:21:43:36 +0000] "DELETE /parsers HTTP/1.1" 500 2179
252.14.101.25 - - [30/12/2019:21:43:36 +0000] "PUT /users HTTP/1.1" 500 3458
254.201.53.35 - - [30/12/2019:21:43:50 +0000] "PUT /alerts HTTP/1.1" 500 3747
58.234.96.125 - - [30/12/2019:21:44:11 +0000] "DELETE /users HTTP/1.1" 500 2418

97.33.223.175 - - [30/12/2019:21:44:13 +0000] "DELETE /alerts HTTP/1.1" 500 3222
101.145.85.67 - - [30/12/2019:21:44:17 +0000] "PATCH /alerts HTTP/1.1" 500 3269
13.192.231.176 - - [30/12/2019:21:44:22 +0000] "PUT /lists HTTP/1.1" 500 4207
214.143.83.138 - - [30/12/2019:21:44:24 +0000] "GET /collectors HTTP/1.1" 500 2776
188.60.10.177 - - [30/12/2019:21:45:35 +0000] "PUT /playbooks HTTP/1.1" 500 4583
125.62.23.54 - - [30/12/2019:21:45:36 +0000] "DELETE /auth HTTP/1.1" 500 2219
2.156.146.146 - - [30/12/2019:21:45:38 +0000] "DELETE /customers HTTP/1.1" 500 4040
206.245.174.41 - - [30/12/2019:21:45:52 +0000] "PUT /fieldsets HTTP/1.1" 500 3129
0.13.125.158 - - [30/12/2019:21:46:09 +0000] "DELETE /alerts HTTP/1.1" 500 2239
145.157.150.245 - - [30/12/2019:21:46:20 +0000] "POST /fieldsets HTTP/1.1" 500 4327
139.143.87.40 - - [30/12/2019:21:46:22 +0000] "PATCH /auth HTTP/1.1" 500 3421
222.251.150.26 - - [30/12/2019:21:46:27 +0000] "PUT /users HTTP/1.1" 500 3183
9.25.245.139 - - [30/12/2019:21:47:34 +0000] "PUT /lists HTTP/1.1" 500 2941
131.231.175.54 - - [30/12/2019:21:47:40 +0000] "PUT /fieldsets HTTP/1.1" 500 3098

Base de datos

Ejercicio 1

Número de automóviles:

5500

La solicitud que utilizaste para resolver la tarea.

```
SELECT COUNT(DISTINCT vehicle_id) AS total_vehicles FROM cabs;
```

Ejercicio 2

Lista de las compañías con menos de 100 automóviles.

*Escribe la lista aquí

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.

La solicitud que te ayudó a resolver la tarea.

```
SELECT COUNT (vehicle_id) AS cnt, company_name  
  
FROM cabs  
  
GROUP BY company_name  
  
HAVING COUNT (vehicle_id) < 100  
  
ORDER BY cnt DESC;
```

Ejercicio 3

La tabla con los datos para el periodo especificado.

*Inserta la tabla aquí, por ejemplo, en formato de imagen. Lo importante aquí es que todo sea claramente visible

```
chicago_taxi=# SELECT ts,  
chicago_taxi=# CASE  
chicago_taxi=# WHEN description LIKE '%rain%' OR description LIKE '%storm%' THEN 'Bad'  
chicago_taxi=# ELSE 'Good'  
chicago_taxi=# END AS weather_conditions  
chicago_taxi=# FROM weather_records  
chicago_taxi=# WHERE ts BETWEEN '2017-11-05 0:00:00' AND '2017-11-06 00:00:00';  
      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)
```

La solicitud que utilizaste para resolver la tarea.

```
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 0:00:00' AND '2017-11-06 00:00:00';
```

Ejercicio 4

La tabla con datos para un período específico.

```
morty=# \c chicago_taxi
You are now connected to database "chicago_taxi" as user "morty".
chicago_taxi=# SELECT cabs.company_name, COUNT(trips.trip_id) AS trips_amount
chicago_taxi=# FROM cabs
chicago_taxi=# INNER JOIN trips ON trips.cab_id = cabs.cab_id
chicago_taxi=# WHERE trips.start_ts BETWEEN '2017-11-16' AND '2017-11-17'
chicago_taxi=# GROUP BY cabs.company_name
chicago_taxi=# ORDER BY trips_amount DESC;
```

company_name	trips_amount
Flash Cab	10206
Taxi Affiliation Services	5898
Medallion Leasin	5428
Yellow Cab	5293
Taxi Affiliation Service Yellow	4783
Chicago Carriage Cab Corp	4729
City Service	4319
Sun Taxi	3977
Star North Management LLC	3961
Blue Ribbon Taxi Association Inc.	3201
Choice Taxi Association	2558
Globe Taxi	2259
Nova Taxi Affiliation Llc	1678
Dispatch Taxi Affiliation	1651
Patriot Taxi DbA Peace Taxi Associat	1146
Checker Taxi Affiliation	1126
Blue Diamond	1092
Chicago Medallion Management	988
24 Seven Taxi	852
Chicago Medallion Leasing INC	790
Checker Taxi	786
American United	712
KOAM Taxi Association	667
Chicago Independents	652
Top Cab Affiliation	514
Chicago Taxicab	469
Gold Coast Taxi	264
Service Taxi Association	189
5 Star Taxi	144
303 Taxi	140
Setare Inc	120
American United Taxi Affiliation	111
Leonard Cab Co	86
Norshore Cab	66
Metro Jet Taxi A	62
6742 - 83735 Tasha ride inc	22
6574 - Babylon Express Inc.	18
1085 - 72312 N and W Cab Co	17
1469 - 64126 Omar Jada	17
5074 - 54002 Ahzmi Inc	15
3591 - 63480 Chuks Cab	14
2092 - 61288 Sbeih company	14
6057 - 24657 Richard Addo	13
3011 - 66308 JBL Cab Inc.	12
6743 - 78771 Luhak Corp	12
4615 - 83503 Tyrone Henderson	12
Chicago Star Taxicab	12
2809 - 95474 C & D Cab Co Inc.	12
0118 - 42111 Godfrey S.Awir	12
3623 - 72222 Arrington Enterprises	9
Metro Group	8
2192 - 73487 Zeymane Corp	8
5006 - 39261 Salifu Bawa	8
5997 - 65283 AW Services Inc.	8
2733 - 74600 Benny Jona	7
4623 - 27290 Jay Kim	7
2823 - 73307 Lee Express Inc	7
4053 - 40193 Adwar H. Nikola	6
3620 - 52292 David K. Cab Corp.	6
5062 - 34841 Sam Mestas	5
2241 - 44667 - Felman Corp, Manuel Alonso	3
3721 - Santamaria Express, Alvaro Santamaria	3
3556 - 36214 RC Andrews Cab	2

(63 rows)

La solicitud que utilizaste para resolver la tarea.

```
SELECT cabs.company_name, COUNT(trips.trip_id) AS trips_amount
FROM cabs
INNER JOIN trips ON trips.cab_id = cabs.cab_id
WHERE (trips.start_ts::date) BETWEEN '2017-11-16' AND '2017-11-17'
GROUP BY cabs.company_name
ORDER BY trips_amount DESC;
```