

Consola

Ejercicio 1

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

1. `cd logs/2019/12`
2. `grep ^233.201 logs/2019/12 *`

Registros:

- `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`

```
morty@cnt-d7fa3fd9-3529-49b3-8de4-a7675e18a2ea:~/logs/2019/12$ grep ^233.201 logs/2019/12 *
grep: logs/2019/12: No such file or directory
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
morty@cnt-d7fa3fd9-3529-49b3-8de4-a7675e18a2ea:~/logs/2019/12$
```

Ejercicio 2

Comandos que crean los directorios bug1 y events:

- `mkdir ~/bug1`

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:

- `grep -E " 400 | 500 " logs/2019/12/apache_2019-12-30.txt > ~/bug1/main.txt`
- LO INTENTE PRIMERO DE ESTA PRIMERA MANERA CON AYUDA DE INTERNET
- `grep " 400 " logs/2019/12/apache_2019-12-30.txt >> ~/bug1/main.txt`
- `grep " 500 " logs/2019/12/apache_2019-12-30.txt >> ~/bug1/main.txt`
- Y LUEGO LO INTENTE CON ESTA MANERA DE ACUERDO A EJEMPLOS DE LA TEORÍA. AMBOS COMANDOS ME DIERON EL MISMO RESULTADO.

- `mkdir ~/bug1/events`

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

- `touch ~/bug1/events/400.txt`
- `touch ~/bug1/events/500.txt`

400.txt

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

500.txt.

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

```
morty@cnt-d7fa3fd9-3529-49b3-8de4-a7675e18a2ea:~$ cat ~/bug1/events/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
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
```

```
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
```

Base de datos

Ejercicio 1

Número de automóviles:

- 5529

La solicitud que utilizaste para resolver la tarea.

- `SELECT COUNT(DISTINCT vehicle_id) AS cnt FROM cabs;`

```
chicago_taxi=# SELECT COUNT(DISTINCT vehicle_id) AS cnt FROM cabs;
cnt
-----
 5500
(1 row)

chicago_taxi=#
```

Ejercicio 2

Lista de las compañías con menos de 100 automóviles.

```
chicago_taxi=# SELECT company_name,COUNT(DISTINCT vehicle_id) AS cnt FROM cabs GROUP BY company_name HAVING COUNT(*) < 100 ORDER BY COUNT(DISTINCT vehicle_id) DESC;
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
Norsshore Cab | 34
gold coast Taxi | 20
Metro Group | 20
Service Taxi Association | 18
5 Star Taxi | 14
Metro Jet Taxi A | 8
American United Taxi Affiliation | 7
Setare Inc | 7
Leonard Cab Co | 5
5874 - 73628 Sergey Cab Corp. | 1
0118 - 42111 Godfrey S.Awir | 1
6057 - 24657 Richard Addo | 1
6574 - Babylon Express Inc. | 1
6742 - 83735 Tasha ride inc | 1
6743 - 78771 Luhak Corp | 1
Chicago Star Taxicab | 1
5997 - 65283 AW Services Inc. | 1
1085 - 72312 N and w Cab Co | 1
1469 - 64126 Omar Jada | 1
2092 - 61288 Sbeih company | 1
2192 - 73487 Zeymane Corp | 1
2241 - 44667 - Felman Corp, Manuel Alonso | 1
2733 - 74600 Benny Jona | 1
2809 - 95474 C & D Cab Co Inc. | 1
2823 - 72307 Lee Express Inc | 1
3011 - 66308 JBL Cab Inc. | 1
3094 - 24059 G.L.B. Cab Co | 1
3556 - 36214 RC Andrews Cab | 1
3591 - 63480 Chuks Cab | 1
3620 - 52292 David K. Cab Corp. | 1
3623 - 72222 Arrington Enterprises | 1
3721 - Santamaria Express, Alvaro Santamaria | 1
4053 - 40193 Adwar H. Nikola | 1
4615 - 83503 Tyrone Henderson | 1
4623 - 27290 Jay Kim | 1
5006 - 39261 Saifu Bawa | 1
5062 - 34841 Sam Mestas | 1
5074 - 54002 Ahzmi Inc | 1
(51 rows)
```

La solicitud que te ayudó a resolver la tarea.

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

Ejercicio 3

La tabla con los datos para el periodo especificado.

```
chicago_taxi=# 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';  
      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)  
  
chicago_taxi=#
```

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

Ejercicio 4

La tabla con datos para un período específico.

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 Sbeith 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)	
[END]	

La solicitud que utilizaste para resolver la tarea.

```
SELECT company_name, COUNT(trips.trip_id) AS trips_amount FROM cabs LEFT JOIN trips
ON trips.cab_id = cabs.cab_id WHERE trips.start_ts BETWEEN '2017-11-15 00:00:00' AND
'2017-11-16 23:59:59' GROUP BY company_name ORDER BY trips_amount DESC;
```