

Consola

Ejercicio 1

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

```
cd logs/2019/12
grep -R "233.201"
```

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
```

Ejercicio 2

Comandos que crean los directorios bug1 y events:

```
cd ~
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:

```
cd bug1

touch main.txt

grep "21:3" logs/2019/12/apache_2019-12-30.txt > bug1/main.txt
grep "21:3" logs/2019/12/apache_2019-12-31.txt > bug1/main.txt

cd bug1          cat main.txt
```

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

```
cd bug1

cd events          touch 400.txt 500.txt
```

400.txt

```
grep "400" main.txt > events/400.txt
```

cat events/400.txt

```
morty@f898746b8e13: ~/bug1
93.2.134.22 - - [30/12/2019:21:39:39 +0000] "DELETE /alerts HTTP/1.1" 400 3701
morty@f898746b8e13:~/bug1$ grep "400" main.txt > events/400.txt
morty@f898746b8e13:~/bug1$ cat events/400.txt
86.94.86.182 - - [31/12/2019:21:35:10 +0000] "POST /auth HTTP/1.1" 400 3636
167.37.16.117 - - [30/12/2019:21:35:10 +0000] "PATCH /customers HTTP/1.1" 400 3294
199.128.92.19 - - [31/12/2019:21:35:43 +0000] "PUT /users HTTP/1.1" 400 4180
162.152.99.143 - - [31/12/2019:21:35:59 +0000] "PUT /users HTTP/1.1" 400 4606
83.115.59.224 - - [31/12/2019:21:37:26 +0000] "GET /alerts HTTP/1.1" 400 3489
194.10.97.226 - - [31/12/2019:21:37:31 +0000] "DELETE /lists HTTP/1.1" 400 2447
180.99.234.40 - - [31/12/2019:21:37:44 +0000] "DELETE /alerts HTTP/1.1" 400 2077
154.152.205.4 - - [31/12/2019:21:37:50 +0000] "GET /playbooks HTTP/1.1" 400 3324
197.82.125.54 - - [31/12/2019:21:37:52 +0000] "PUT /fieldsets HTTP/1.1" 400 4365
115.89.87.219 - - [31/12/2019:21:38:06 +0000] "PUT /playbooks HTTP/1.1" 400 2589
100.77.15.14 - - [31/12/2019:21:38:07 +0000] "GET /fieldsets HTTP/1.1" 400 4911
22.39.159.242 - - [31/12/2019:21:38:07 +0000] "GET /playbooks HTTP/1.1" 400 3955
149.148.229.11 - - [31/12/2019:21:39:16 +0000] "GET /users HTTP/1.1" 400 2071
236.107.64.192 - - [31/12/2019:21:39:17 +0000] "PATCH /users HTTP/1.1" 400 2791
24.156.105.39 - - [31/12/2019:21:39:23 +0000] "GET /lists HTTP/1.1" 400 2902
193.50.164.254 - - [31/12/2019:21:39:23 +0000] "PUT /playbooks HTTP/1.1" 400 3296
18.123.104.91 - - [31/12/2019:21:39:52 +0000] "GET /collectors HTTP/1.1" 400 4372
234.218.148.4 - - [31/12/2019:21:39:54 +0000] "PUT /users HTTP/1.1" 400 2509
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
123.83.150.180 - - [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
morty@f898746b8e13:~/bug1$
```

500.txt.

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

cat events/500.txt

```
morty@f898746b8e13: ~/bug1
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
morty@f898746b8e13:~/bug1$ grep ""400" main.txt > events/400.tx main.txt > events/500.txt
^C
morty@f898746b8e13:~/bug1$ grep "500" main.txt > events/500.txt
morty@f898746b8e13:~/bug1$ cat events/500.txt
208.205.133.127 - - [31/12/2019:21:35:17 +0000] "DELETE /alerts HTTP/1.1" 500 4561
20.145.355.91 - - [31/12/2019:21:35:30 +0000] "GET /users HTTP/1.1" 500 3051
91.66.134.13 - - [31/12/2019:21:35:53 +0000] "POST /lists HTTP/1.1" 500 3319
31.88.211.206 - - [31/12/2019:21:35:57 +0000] "DELETE /events HTTP/1.1" 500 2325
171.37.114.114 - - [31/12/2019:21:37:39 +0000] "DELETE /fieldsets HTTP/1.1" 500 3253
223.157.242.167 - - [31/12/2019:21:37:59 +0000] "POST /users HTTP/1.1" 500 2283
98.181.102.34 - - [31/12/2019:21:38:06 +0000] "PATCH /fieldsets HTTP/1.1" 500 4672
254.74.22.79 - - [31/12/2019:21:38:06 +0000] "PUT /lists HTTP/1.1" 500 2259
103.46.238.3 - - [31/12/2019:21:38:09 +0000] "PUT /lists HTTP/1.1" 500 3992
41.62.205.107 - - [31/12/2019:21:39:20 +0000] "PATCH /alerts HTTP/1.1" 500 3631
22.53.105.197 - - [31/12/2019:21:39:31 +0000] "DELETE /collectors HTTP/1.1" 500 4202
128.22.133.42 - - [31/12/2019:21:39:43 +0000] "PUT /alerts HTTP/1.1" 500 4648
102.247.13.50 - - [31/12/2019:21:39:55 +0000] "PATCH /auth HTTP/1.1" 500 3736
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
65.47.42.12 - - [30/12/2019:21:37:39 +0000] "PATCH /customers HTTP/1.1" 400 2500
212.133.128.212 - - [30/12/2019:21:37:42 +0000] "PUT /fieldsets HTTP/1.1" 500 3259
48.188.83.217 - - [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 - - [30/12/2019:21:38:23 +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
morty@f898746b8e13:~/bug1$
```

Base de datos

Ejercicio 1

Número de automóviles:

5500

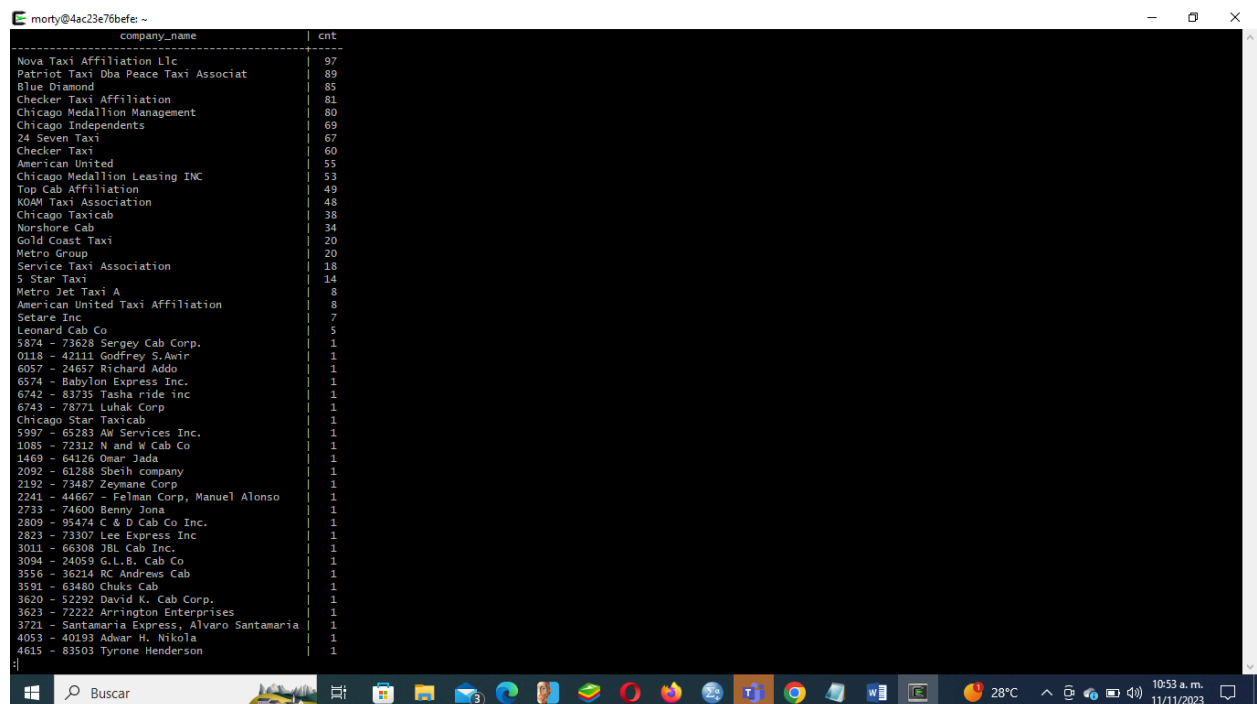
```
chicago_taxi=# SELECT COUNT(DISTINCT vehicle_id) AS numero_automoviles FROM cabs ;
numero_automoviles
-----
5500
(1 row)
```

La solicitud que utilizaste para resolver la tarea.

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

Ejercicio 2

Lista de las compañías con menos de 100 automóviles.



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
Metro Jet Taxi A	8
American United Taxi Affiliation	8
Setare Inc	7
Leonard Cab Co	5
5874 - 73628 Sergey Cab Corp.	1
0118 - 42111 Godfrey S.Awtr	1
6057 - 24697 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 Sbeth company	1
2192 - 73487 Zeymane Corp	1
2241 - 44667 - Pelman Corp, Manuel Alonso	1
2733 - 74600 Benny Jona	1
2809 - 95474 C & D Cab Co Inc.	1
2823 - 73307 Lee Express Inc	1
3011 - 66308 JBL Cab Inc.	1
3094 - 24099 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

La solicitud que te ayudó a resolver la tarea.

```
SELECT company_name, COUNT( vehicle_id) AS cnt 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.

```
morty@6a04ff71617d: ~
A
chicago_taxi=# SELECT ts, CASE WHEN description LIKE '%rain%' OR '%storm%' THEN 'Bad' ELSE 'Good' END AS weather_conditions FROM weather_records WHERE ts BETWEEN '2017-05-11' AND '2017-06-11' ;
ERROR: invalid input syntax for type boolean: "%storm%"
LINE 1: SELECT ts, CASE WHEN description LIKE '%rain%' OR '%storm%' ...
                                ^
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 '2017-05-11' AND '2017-06-11' ;
ts | weather_conditions
-----
(0 rows)

chicago_taxi=# SELECT * FROM weather_records ;
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' AND '2017-11-06' ;
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=# SELECT company_name, COUNT(trip_id) AS trip_amount FROM trips, INNER JOIN cabs ON cabs.trip_id = trips.cab_id WHERE date > '2017-11-15' AND date < '2017-11-16' ORDER BY trips_amount DESC ;
ERROR: syntax error at or near "JOIN"
LINE 1: ..., COUNT(trip_id) AS trip_amount FROM trips, INNER JOIN cabs ...
                                ^
chicago_taxi=# SELECT cabs.company_name, COUNT(trips.trip_id) AS trip_amount FROM trips, INNER JOIN cabs ON cabs.cab_id = trips.cab_id WHERE date > '2017-11-15' AND date < '2017-11-16' ORDER B
```

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

Ejercicio 4

La tabla con datos para un período específico.

```
morty@6a04ff71617d: ~
```

company_name	trip_amount
Flash Cab	9462
Taxi Affiliation Services	5540
Medallion Leasin	4876
Yellow Cab	4671
Taxi Affiliation Service Yellow	4578
Chicago Carriage Cab Corp	4435
City Service	4137
Sun Taxi	3734
Star North Management LLC	3514
Blue Ribbon Taxi Association Inc.	2763
Choice Taxi Association	2475
Globe Taxi	2146
Dispatch Taxi Affiliation	1705
Nova Taxi Affiliation LLC	1528
Patriot Taxi Dba Peace Taxi Associat	1097
Checker Taxi Affiliation	1088
Blue Diamond	981
Chicago Medallion Management	980
24 Seven Taxi	914
Chicago Medallion Leasing INC	818
Checker Taxi	714
American United	695
Chicago Independents	635
KOAM Taxi Association	608
Chicago Taxicab	539
Top Cab Affiliation	467
Service Taxi Association	212
5 Star Taxi	169
Gold Coast Taxi	166
303 Taxi	112
Setare Inc	108
American United Taxi Affiliation	100
Metro Jet Taxi A	85
Leonard Cab Co	66
Norshore Cab	61
3591 - 63480 Chuks Cab	23
6743 - 78771 Luhak Corp	22
0118 - 42111 Godfrey S.Awir	21
1469 - 64126 Omar Jada	19
6742 - 83735 Tasha ride inc	17
Chicago Star Taxicab	17
2809 - 95474 C & D Cab Co Inc.	17
3620 - 52292 David K. Cab Corp.	15
1085 - 72312 N and W Cab Co	13
6574 - Babylon Express Inc.	13
2092 - 61288 Sbeth company	13
3721 - Santamaria Express, Alvaro Santamaria	11

La solicitud que utilizaste para resolver la tarea.

```
SELECT cabs.company_name, COUNT(trips.trip_id) AS trip_amount FROM trips INNER JOIN
cabs ON cabs.cab_id = trips.cab_id WHERE trips.start_ts > '2017-11-15' AND trips.start_ts <
'2017-11-16' GROUP BY cabs.company_name ORDER BY COUNT(trips.trip_id) DESC ;
```