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Consola

Ejercicio 1
El comando o secuencia de comandos que te proporcionó los registros necesarios:
grep -r "^233.201" logs/2019/12

Registros:

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
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
mkdir bug/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:

grep -E '\[(30/12/2019:(21:3[0-9]|31/12/2019:21:3[0-9])):[0-9]{2} \+0000\]' logs/2019/12/* > bug1/main.txt

grep -E '\[(31/12/2019:(21:3[0-9]|31/12/2019:21:3[0-9])):[0-9]{2} \+0000\]' logs/2019/12/* >> bug1/main.txt

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

grep "HTTP/1.1\" 400" bug1/main.txt > bug1/events/400.txt

grep "HTTP/1.1\" 500" bug1/main.txt > bug1/events/500.txt

400.txt

Verificación del número de líneas del registro y la respuesta dada:

wc -l bug1/events/400.txt

46 bug1/events/400.txt

Verificación del número de 3 líneas en el registro y la respuesta dada del error:

Head -3 bug1/events/400.txt

logs/2019/12/apache_2019-12-30.txt:80.57.170.51 - - [30/12/2019:21:35:12 +0000]

"DELETE /users HTTP/1.1" 400 3623

logs/2019/12/apache_2019-12-30.txt:204.235.176.118 - - [30/12/2019:21:35:13 +000

0] "POST /users HTTP/1.1" 400 4704

logs/2019/12/apache_2019-12-30.txt:82.95.203.67 - - [30/12/2019:21:35:19 +0000]

"DELETE /lists HTTP/1.1" 400 3737"

Verificación del número de 3 líneas en el registro como últimas y la respuesta dada del error:

tail -3 bug1/events/400.txt

logs/2019/12/apache_2019-12-31.txt:193.50.164.254 - - [31/12/2019:21:39:23 +0000

] "PUT /playbooks HTTP/1.1" 400 3296

logs/2019/12/apache_2019-12-31.txt:18.123.104.91 - - [31/12/2019:21:39:52 +0000]

 "GET /collectors HTTP/1.1" 400 4372

logs/2019/12/apache_2019-12-31.txt:234.218.148.4 - - [31/12/2019:21:39:54 +0000]

 "PUT /users HTTP/1.1" 400 2509

500.txt.

Verificación del número de líneas del registro y la respuesta dada:

wc -l bug1/events/500.txt

40 bug1/events/500.txt

Verificación del número de 3 líneas en el registro y la respuesta dada del error:

Head -3 bug1/events/500.txt

logs/2019/12/apache_2019-12-30.txt:64.250.112.189 - - [30/12/2019:21:35:13 +0000

] "PUT /parsers HTTP/1.1" 500 4639

logs/2019/12/apache_2019-12-30.txt:193.253.101.180 - - [30/12/2019:21:35:31 +000

0] "PATCH /alerts HTTP/1.1" 500 2944

logs/2019/12/apache_2019-12-30.txt:197.106.117.194 - - [30/12/2019:21:35:31 +000

0] "PATCH /parsers HTTP/1.1" 500 3519

Verificación del número de 3 líneas en el registro como últimas y la respuesta dada del error:

tail -3 bug1/events/500.txt

logs/2019/12/apache_2019-12-31.txt:22.53.105.197 - - [31/12/2019:21:39:31 +0000]

 "DELETE /collectors HTTP/1.1" 500 4202

logs/2019/12/apache_2019-12-31.txt:178.22.133.42 - - [31/12/2019:21:39:43 +0000]

 "PUT /alerts HTTP/1.1" 500 4648

Base de datos

Ejercicio 1
Número de automóviles:
5500

La solicitud que utilizaste para resolver la tarea.
SELECT COUNT (DISTINCT vehicle_id) AS total_taxis 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
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
```

```
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
(51 rows)

(END)
```

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.

La solicitud que utilizaste para resolver la tarea.

SELECT ts AS fecha_hora, 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 <= '2017-11-06 00:00:00';

Ejercicio 4

La tabla con datos para un período específico.

```
        company_name          | trips_amount
------------------------------+-------------
Flash Cab                     |        10020
Taxi Affiliation Services     |         6010
Medallion Leasin              |         5147
Yellow Cab                    |         4971
Taxi Affiliation Service Yellow |       4756
Chicago Carriage Cab Corp     |         4644
City Service                  |         4359
Sun Taxi                      |         3853
Star North Management LLC     |         3782
Blue Ribbon Taxi Association Inc. |     3040
Choice Taxi Association       |         2590
Globe Taxi                    |         2253
Dispatch Taxi Affiliation     |         1816
Nova Taxi Affiliation Llc     |         1584
Patriot Taxi Dba Peace Taxi Associat |  1129
Checker Taxi Affiliation      |         1117
Chicago Medallion Management  |         1022
Blue Diamond                  |         1009
24 Seven Taxi                 |          935
Chicago Medallion Leasing INC |          845
Checker Taxi                  |          757
American United               |          750
Chicago Independents          |          658
KOAM Taxi Association         |          650
Chicago Taxicab               |          557
Top Cab Affiliation           |          501
Service Taxi Association      |          220
5 Star Taxi                   |          170
Gold Coast Taxi               |          166
Setare Inc                    |          113
303 Taxi                      |          113
American United Taxi Affiliation |       103
Metro Jet Taxi A              |           85
Leonard Cab Co                |           67
Norshore Cab                  |           61
3591 - 63480 Chuks Cab        |           23
6743 - 78771 Luhak Corp       |           22
0118 - 42111 Godfrey S.Awir   |           21
2809 - 95474 C & D Cab Co Inc.|           19
1469 - 64126 Omar Jada        |           19
3011 - 66308 JBL Cab Inc.     |           18
6742 - 83735 Tasha ride inc   |           17
Chicago Star Taxicab          |           17
1085 - 72312 N and W Cab Co   |           16
3620 - 52292 David K. Cab Corp.|          15
2092 - 61288 Sbeih company    |           13
6574 - Babylon Express Inc.   |           13
```

```
2092 - 61288 Sbeih company                |           13
6574 - Babylon Express Inc.               |           13
3623 - 72222 Arrington Enterprises        |           11
3721 - Santamaria Express, Alvaro Santamaria |        11
4615 - 83503 Tyrone Henderson             |            9
2823 - 73307 Lee Express Inc              |            8
4623 - 27290 Jay Kim                      |            8
2192 - 73487 Zeymane Corp                 |            6
5006 - 39261 Salifu Bawa                  |            6
5874 - 73628 Sergey Cab Corp.             |            5
4053 - 40193 Adwar H. Nikola              |            5
5062 - 34841 Sam Mestas                   |            5
5997 - 65283 AW Services Inc.             |            4
Metro Group                               |            3
5074 - 54002 Ahzmi Inc                    |            1
(60 rows)
```

La solicitud que utilizaste para resolver la tarea.

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