

# Fernanda Ramírez, 04 Cohorte, 4to. Sprint

## 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  
~/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:

```
~/bug1$ grep -R "3[01]/12/2019:21:3:... .0000" ~/logs > main.txt
```

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

```
~/bug1/events$ grep -nR "400 ....$" ~/bug1/main.txt > 400.txt  
~/bug1/events$ grep -nR "500 ....$" ~/bug1/main.txt > 500.txt
```

#### 400.txt

```
~/bug1/events$ head -n5 400.txt
```

- 4:/home/morty/logs/2019/12/apache\_2019-12-30.txt:4:80.57.170.51 - - [30/12/2019:21:35:12 +0000]  
"DELETE /users HTTP/1.1" 400 3623
- 7:/home/morty/logs/2019/12/apache\_2019-12-30.txt:7:204.235.176.118 - - [30/12/2019:21:35:13 +0000]  
"POST /users HTTP/1.1" 400 4704
- 15:/home/morty/logs/2019/12/apache\_2019-12-30.txt:15:82.95.203.67 - - [30/12/2019:21:35:19 +0000]  
"DELETE /lists HTTP/1.1" 400 3737
- 40:/home/morty/logs/2019/12/apache\_2019-12-30.txt:40:155.242.215.46 - - [30/12/2019:21:35:38 +0000]  
"POST /playbooks HTTP/1.1" 400 4450
- 41:/home/morty/logs/2019/12/apache\_2019-12-30.txt:41:189.176.85.0 - - [30/12/2019:21:35:39 +0000]  
"PATCH /alerts HTTP/1.1" 400 2732

```
~/bug1/events$ tail -n5 400.txt
```

- 357:/home/morty/logs/2019/12/apache\_2019-12-31.txt:106:236.107.64.192 - - [31/12/2019:21:39:17 +0000]  
"PATCH /users HTTP/1.1" 400 2791
- 363:/home/morty/logs/2019/12/apache\_2019-12-31.txt:112:24.156.105.39 - - [31/12/2019:21:39:23 +0000]  
"GET /lists HTTP/1.1" 400 2902
- 364:/home/morty/logs/2019/12/apache\_2019-12-31.txt:113:193.50.164.254 - - [31/12/2019:21:39:23 +0000]  
"PUT /playbooks HTTP/1.1" 400 3296
- 387:/home/morty/logs/2019/12/apache\_2019-12-31.txt:136:18.123.104.91 - - [31/12/2019:21:39:52 +0000]  
"GET /collectors HTTP/1.1" 400 4372

→ 389:/home/morty/logs/2019/12/apache\_2019-12-31.txt:138:234.218.148.4 - - [31/12/2019:21:39:54 +0000]  
"PUT /users HTTP/1.1" 400 2509

## 500.txt.

~/bug1/events\$ head -n5 500.txt

→ 8:/home/morty/logs/2019/12/apache\_2019-12-30.txt:8:64.250.112.189 - - [30/12/2019:21:35:13 +0000] "PUT  
/parsers HTTP/1.1" 500 4639  
→ 30:/home/morty/logs/2019/12/apache\_2019-12-30.txt:30:193.253.101.180 - - [30/12/2019:21:35:31 +0000]  
"PATCH /alerts HTTP/1.1" 500 2944  
→ 31:/home/morty/logs/2019/12/apache\_2019-12-30.txt:31:197.106.117.194 - - [30/12/2019:21:35:31 +0000]  
"PATCH /parsers HTTP/1.1" 500 3519  
→ 48:/home/morty/logs/2019/12/apache\_2019-12-30.txt:48:247.124.71.67 - - [30/12/2019:21:35:45 +0000]  
"PUT /alerts HTTP/1.1" 500 2746  
→ 60:/home/morty/logs/2019/12/apache\_2019-12-30.txt:60:62.88.204.119 - - [30/12/2019:21:35:51 +0000]  
"PUT /auth HTTP/1.1" 500 2666

~/bug1/events\$ tail -n5 500.txt

→ 352:/home/morty/logs/2019/12/apache\_2019-12-31.txt:101:103.46.238.3 - - [31/12/2019:21:38:09 +0000]  
"PUT /lists HTTP/1.1" 500 3992  
→ 359:/home/morty/logs/2019/12/apache\_2019-12-31.txt:108:41.62.205.107 - - [31/12/2019:21:39:20 +0000]  
"PATCH /alerts HTTP/1.1" 500 3631  
→ 369:/home/morty/logs/2019/12/apache\_2019-12-31.txt:118:22.53.105.197 - - [31/12/2019:21:39:31 +0000]  
"DELETE /collectors HTTP/1.1" 500 4202  
→ 378:/home/morty/logs/2019/12/apache\_2019-12-31.txt:127:178.22.133.42 - - [31/12/2019:21:39:43 +0000]  
"PUT /alerts HTTP/1.1" 500 4648  
→ 390:/home/morty/logs/2019/12/apache\_2019-12-31.txt:139:102.247.13.50 - - [31/12/2019:21:39:55 +0000]  
"PATCH /auth HTTP/1.1" 500 3736

## Base de datos

### Ejercicio 1

Número de automóviles: 5500

La solicitud que utilizaste para resolver la tarea:

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

### Ejercicio 2

Lista de las compañías con menos de 100 automóviles.

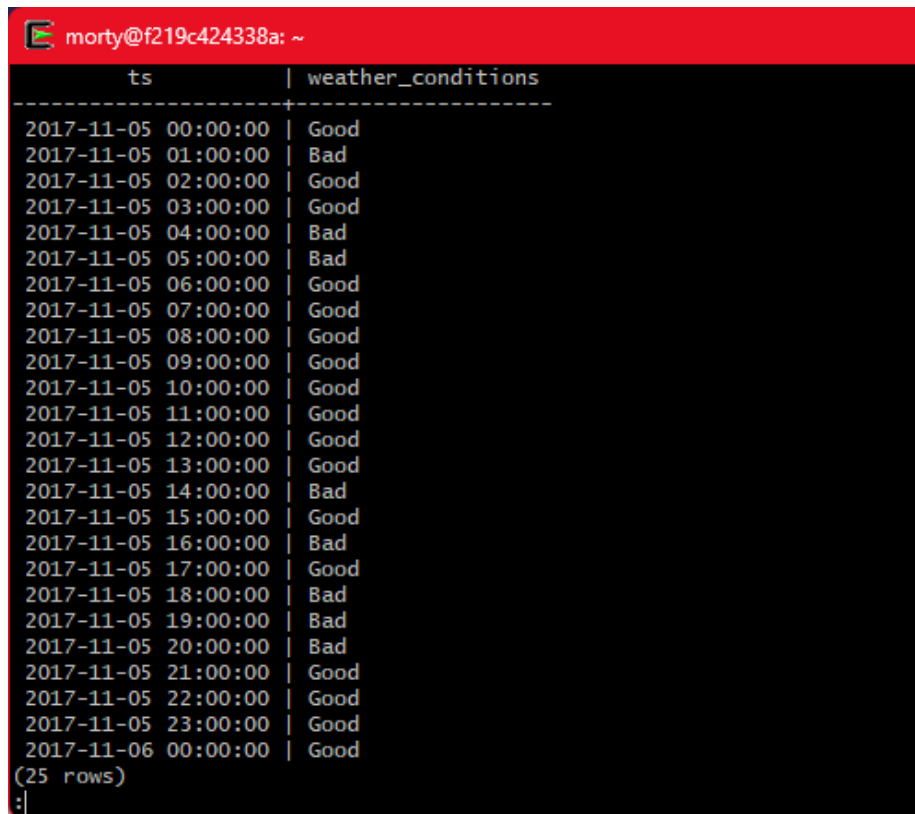
| company_name                                 | cnt |
|----------------------------------------------|-----|
| Nova Taxi Affiliation Llc                    | 97  |
| Patriot Taxi DbA Peace Taxi Associat         | 89  |
| Blue Diamond                                 | 85  |
| Checker Taxi Affiliation                     | 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   |
| 3623 - 72222 Arrington Enterprises           | 1   |
| 4053 - 40193 Adwar H. Nikola                 | 1   |
| Chicago Star Taxicab                         | 1   |
| 3011 - 66308 JBL Cab Inc.                    | 1   |
| (51 rows)                                    |     |

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.



A terminal window with a red title bar showing the command prompt 'morty@f219c424338a: ~'. Below the prompt, a table is displayed with two columns: 'ts' and 'weather\_conditions'. The table contains 25 rows of data, showing timestamps from 2017-11-05 00:00:00 to 2017-11-06 00:00:00 and corresponding weather conditions ('Good' or 'Bad'). The table is enclosed in a box with dashed lines. At the bottom of the table, it says '(25 rows)' and a cursor is visible.

| 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%' THEN 'Bad'
        WHEN description LIKE '%storm%' THEN 'Bad'
        WHEN description NOT LIKE '%rain%' THEN 'Good'
        WHEN description NOT LIKE '%storm%' THEN 'Good'
        ELSE description 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                                    | 691          |
| Chicago Carriage Cab Corp                    | 405          |
| Taxi Affiliation Services                    | 398          |
| Medallion Leasin                             | 366          |
| City Service                                 | 353          |
| Taxi Affiliation Service Yellow              | 343          |
| Yellow Cab                                   | 324          |
| Sun Taxi                                     | 321          |
| 303 Taxi                                     | 280          |
| Star North Management LLC                    | 256          |
| Choice Taxi Association                      | 217          |
| Blue Ribbon Taxi Association Inc.            | 199          |
| Globe Taxi                                   | 194          |
| Dispatch Taxi Affiliation                    | 148          |
| 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           |
| Setare Inc                                   | 8            |
| Metro Jet Taxi A                             | 8            |
| American United Taxi Affiliation             | 8            |
| Leonard Cab Co                               | 5            |
| 5874 - 73628 Sergey Cab Corp.                | 1            |
| 3721 - Santamaria Express, Alvaro Santamaria | 1            |
| 3094 - 24059 G.L.B. Cab Co                   | 1            |
| 6743 - 78771 Luhak Corp                      | 1            |
| 6574 - Babylon Express Inc.                  | 1            |
| 5074 - 54002 Ahzmi Inc                       | 1            |
| 0118 - 42111 Godfrey S.Awir                  | 1            |
| 2823 - 73307 Lee Express Inc                 | 1            |
| 2809 - 95474 C & D Cab Co Inc.               | 1            |
| 4053 - 40193 Adwar H. Nikola                 | 1            |
| 3623 - 72222 Arrington Enterprises           | 1            |
| 3591 - 63480 Chuks Cab                       | 1            |
| 2733 - 74600 Benny Jona                      | 1            |
| 3011 - 66308 JBL Cab Inc.                    | 1            |
| Chicago Star Taxicab                         | 1            |
| 4615 - 83503 Tyrone Henderson                | 1            |
| 2241 - 44667 - Felman Corp, Manuel Alonso    | 1            |
| 5062 - 34841 Sam Mestas                      | 1            |
| 1085 - 72312 N and W Cab Co                  | 1            |
| 3620 - 52292 David K. Cab Corp.              | 1            |
| 4623 - 27290 Jay Kim                         | 1            |
| 3556 - 36214 RC Andrews Cab                  | 1            |
| 6742 - 83735 Tasha ride inc                  | 1            |
| 5997 - 65283 AW Services Inc.                | 1            |
| 2092 - 61288 Sbeih company                   | 1            |
| 5006 - 39261 Salifu Bawa                     | 1            |
| 1469 - 64126 Omar Jada                       | 1            |
| 2192 - 73487 Zeymane Corp                    | 1            |
| 6057 - 24657 Richard Addo                    | 1            |
| (65 rows)                                    |              |

La solicitud que utilizaste para resolver la tarea.

```
SELECT
    cabs.company_name AS company_name,
    COUNT(cabs.company_name) AS trips_amount
FROM
    cabs
    LEFT JOIN ( SELECT cab_id
                FROM trips
                WHERE CAST(trips.start_ts AS date) = '2017-11-05' AND CAST(trips.end_ts
                AS date) = '2017-11-06') AS subquery ON subquery.cab_id = cabs.cab_id
GROUP BY
    company_name
ORDER BY
    trips_amount DESC;
```