Consola

Ejercicio 1

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

- grep -r "^233\.201" ~/logs/2019/12

Registros:

- 233.201.188.154 - - [18/12/2019:21:46:01 +0000] "DELETE /events HTTP/1.1" 403 3971

- 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 -p bug1/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:

- cat ~/logs/2019/12/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:

- grep "40. ....$" main.txt > 400.txt → grep "50. ....$" main.txt > 500.txt

400.txt:

- [400.txt](400.txt)

500.txt:

- [500.txt](500.txt)

Base de datos

Ejercicio 1

Número de automóviles:

- 5,529

La solicitud que utilizaste para resolver la tarea:

SELECT distinct
        count(cab_id) AS cabs_cnt
FROM
        cabs;

Ejercicio 2

Lista de las compañías con menos de 100 automóviles:

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
0118 - 42111 Godfrey S.Awir	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 - 73307 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 Salifu Bawa	1
5062 - 34841 Sam Mestas	1
5074 - 54002 Ahzmi Inc	1
5874 - 73628 Sergey Cab Corp.	1
5997 - 65283 AW Services Inc.	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

La solicitud que te ayudó a resolver la tarea:

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

Ejercicio 3

La tabla con los datos para el periodo especificado

```
          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 ILIKE '%rain%' THEN 'Bad'
              WHEN description ILIKE '%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	586
Taxi Affiliation Services	499
Yellow Cab	318
Blue Ribbon Taxi Association Inc.	285
Star North Management LLC	280
City Service	233
Chicago Carriage Cab Corp	220
Taxi Affiliation Service Yellow	188
Medallion Leasin	180
Sun Taxi	122
Choice Taxi Association	117
Dispatch Taxi Affiliation	115
Globe Taxi	113
Nova Taxi Affiliation Llc	60
American United	59
Checker Taxi	45
KOAM Taxi Association	45
Chicago Medallion Management	43
Top Cab Affiliation	39
Patriot Taxi Dba Peace Taxi Associat	35
Checker Taxi Affiliation	32
Blue Diamond	30
Chicago Medallion Leasing INC	29
Chicago Independents	24
24 Seven Taxi	22
Chicago Taxicab	18
Service Taxi Association	9
3011 - 66308 JBL Cab Inc.	7
Setare Inc	6
American United Taxi Affiliation	4
1085 - 72312 N and W Cab Co	3
5062 - 34841 Sam Mestas	2
5 Star Taxi	2
2809 - 95474 C & D Cab Co Inc.	2
303 Taxi	1
Leonard Cab Co	1

(36 rows)

La solicitud que utilizaste para resolver la tarea:

```
SELECT
      cabs.company_name AS company_name,
      count(trip_id) AS trips_amount
FROM
      cabs RIGHT JOIN trips ON trips.cab_id = cabs.cab_id
WHERE
      trips.start_ts IN ('2017-11-15','2017-11-16')
GROUP BY
      cabs.company_name
ORDER BY
      trips_amount DESC;
```