# Laboratorio 3

### Marianna Flores 20180040

```
In [1]: import pandas as pd
```

## PARTE 2

#### Asesino 1

```
In [4]: query = "SELECT * from crime_scene_report;"
    tables = pd.read_sql(query,con)
    tables
```

### Out[4]:

	date	type	description	city
0	20180115	robbery	A Man Dressed as Spider-Man Is on a Robbery Spree	NYC
1	20180115	murder	Life? Dont talk to me about life.	Albany
2	20180115	murder	Mama, I killed a man, put a gun against his he	Reno
3	20180215	murder	REDACTED REDACTED REDACTED	SQL City
4	20180215	murder	Someone killed the guard! He took an arrow to	SQL City
1223	20180430	bribery	\n	Garden Grove
1224	20180430	fraud	'Why not?' said the March Hare.\n	Houma
1225	20180430	assault	\n	Fontana
1226	20180501	assault	be NO mistake about it: it was neither more no	Trenton
1227	20180115	murder	Security footage shows that there were 2 witne	SQL City

1228 rows × 4 columns

income solution

```
In [7]:
         query = "SELECT description from crime scene report WHERE type = 'murder' AND date = 20180115 AND c
          itv = 'SOL Citv';"
          tables = pd.read_sql(query,con)
         tables.iloc[0,0]
Out[7]: 'Security footage shows that there were 2 witnesses. The first witness lives at the last house on
          "Northwestern Dr". The second witness, named Annabel, lives somewhere on "Franklin Ave".'
In [8]: | guery = "SELECT MAX(address number), name, license id, id from person WHERE address street name =
           'Northwestern Dr';"
          tables = pd.read sql(query,con)
         tables
Out[8]:
             MAX(address_number)
                                       name license id
                                                          id
          n
                           4919 Morty Schapiro
                                                118009 14887
In [10]: | query = "SELECT transcript from interview WHERE person id = 14887;"
         tables = pd.read_sql(query,con)
         tables.iloc[0,0]
Out[10]: 'I heard a gunshot and then saw a man run out. He had a "Get Fit Now Gym" bag. The membership numb
         er on the bag started with "48Z". Only gold members have those bags. The man got into a car with a
         plate that included "H42W".'
In [9]: | query = "SELECT * from person WHERE address street name = 'Franklin Ave' AND name LIKE 'Annabel
          tables = pd.read sql(query,con)
          tables
Out[9]:
                         name license_id address_number address_street_name
                Ыi
                                                                               ssn
          0 16371 Annabel Miller
                                  490173
                                                               Franklin Ave 318771143
                                                   103
In [11]: | query = "SELECT transcript from interview WHERE person id = 16371;"
         tables = pd.read_sql(query,con)
         tables.iloc[0,0]
Out[11]: 'I saw the murder happen, and I recognized the killer from my gym when I was working out last week
         on January the 9th.'
         query = "SELECT * from get_fit_now_member WHERE membership_status = 'gold' AND id LIKE '%48Z%';"
In [12]:
          tables = pd.read_sql(query,con)
         tables
Out[12]:
                id person_id
                                    name membership_start_date membership_status
          0 48Z7A
                      28819 Joe Germuska
                                                     20160305
                                                                          gold
          1 48Z55
                      67318 Jeremy Bowers
                                                     20160101
                                                                          gold
In [13]: query = "SELECT * from get fit now check in WHERE check in date = 20180109 AND membership id LIKE
           '%48Z%';"
          tables = pd.read sql(query,con)
         tables
Out[13]:
             membership id check in date check in time check out time
          0
                    48Z7A
                              20180109
                                                             1730
                                               1600
                    48Z55
                              20180109
                                                             1700
                                               1530
          1
```

```
In [14]:
             query = "SELECT * from person WHERE name = 'Jeremy Bowers';"
             tables = pd.read sql(query,con)
             tables
   Out[14]:
                             name license_id address_number address_street_name
                   Ыi
                                                                                    ssn
             0 67318 Jeremy Bowers
                                      423327
                                                       530 Washington PI, Apt 3A 871539279
   In [15]: cursor = con.cursor()
             sql = "INSERT INTO solution VALUES (1, 'Jeremy Bowers')"
             cursor.execute(sql)
             con.commit()
             var = pd.read_sql("SELECT value FROM solution", con)
             var.iloc[0,0]
   Out[15]: "Congrats, you found the murderer! But wait, there's more... If you think you're up for a challeng
             e, try querying the interview transcript of the murderer to find the real villian behind this crim
             e. If you feel especially confident in your SQL skills, try to complete this final step with no mo
             re than 2 queries. Use this same INSERT statement with your new suspect to check your answer."
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   In [16]:
             query = "SELECT transcript from interview WHERE person_id = 67318;"
             tables = pd.read_sql(query,con)
             tables.iloc[0,0]
   Out[16]: 'I was hired by a woman with a lot of money. I don\'t know her name but I know she\'s around 5\'5"
             (65") or 5\'7" (67"). She has red hair and she drives a Tesla Model S. I know that she attended th
             e SQL Symphony Concert 3 times in December 2017.\n'
             query = "SELECT * from drivers_license WHERE hair_color='red' AND car_make = 'Tesla';"
   In [17]:
             tables = pd.read_sql(query,con)
             tables
   Out[17]:
                    id age height eye_color hair_color
                                                     gender plate_number car_make car_model
                202298
                        68
                                                      female
                                                                  500123
                                                                             Tesla
                                                                                     Model S
                               66
                                      areen
                291182
                        65
                               66
                                       blue
                                                      female
                                                                 08CM64
                                                                             Tesla
                                                                                     Model S
                                                 red
              2 736081
                        79
                               69
                                                                 GCAQ6Y
                                                                             Tesla
                                                                                     Model S
                                      brown
                                                 red
                                                       male
              3 918773
                        48
                               65
                                      black
                                                 red
                                                      female
                                                                  917UU3
                                                                             Tesla
                                                                                     Model S
   In [24]: query = "SELECT person id, COUNT(*) from facebook event checkin WHERE event name = 'SQL Symphony Co
             ncert' AND date LIKE '201712%' GROUP BY person id HAVING COUNT(*) == 3"
             tables = pd.read_sql(query,con)
             tables
   Out[24]:
                person_id COUNT(*)
             0
                   24556
                                3
             1
                   99716
                                3
             query = "SELECT * from person where id = 99716"
   In [18]:
             tables = pd.read_sql(query,con)
             tables
   Out[18]:
                   id
                                   license_id address_number address_street_name
                                                                                     ssn
             0 99716 Miranda Priestly
                                       202298
                                                       1883
                                                                     Golden Ave 987756388
```

**0** 987756388 310000

```
In [25]: cursor = con.cursor()
    sql = "INSERT INTO solution VALUES (1, 'Miranda Priestly')"
    cursor.execute(sql)
    con.commit()
    var = pd.read_sql("SELECT value FROM solution", con)
    var.iloc[0,0]
```

Out[25]: 'Congrats, you found the brains behind the murder! Everyone in SQL City hails you as the greatest SQL detective of all time. Time to break out the champagne!'