

# SPEED DATING

Exploratory Data Analysis

KINN Linda - Jedha Bootcamp - 2022

# SUMMARY

- Use Case presentation
- Database exploratory
- Candidat's profil analysis
- Matching analysis
- Conclusion
- To go further

# Use Case presentation

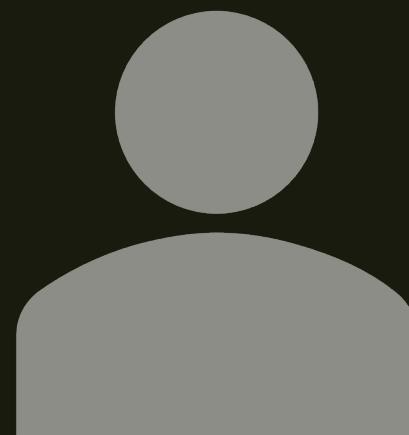
- Kaggle Challenge
- Columbia Business School : Ray Fisman and Sheena Lyengar
- Experimental speed dating event from 2002-2004
- 4 minutes « first date »
- Goal : Understand what happens during speed dating and especially yo understand :

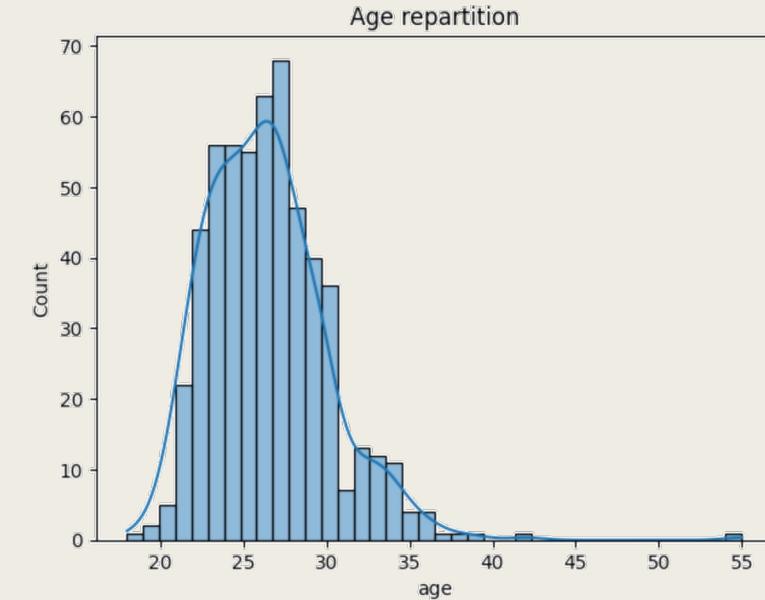
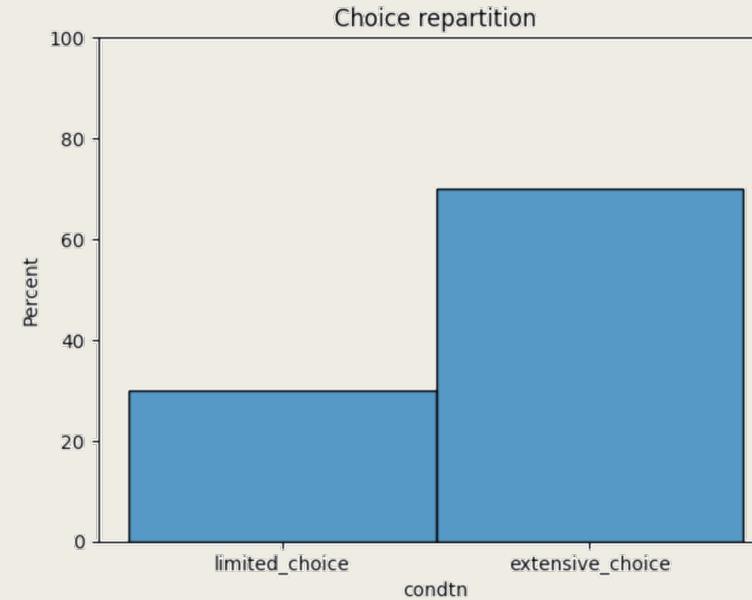
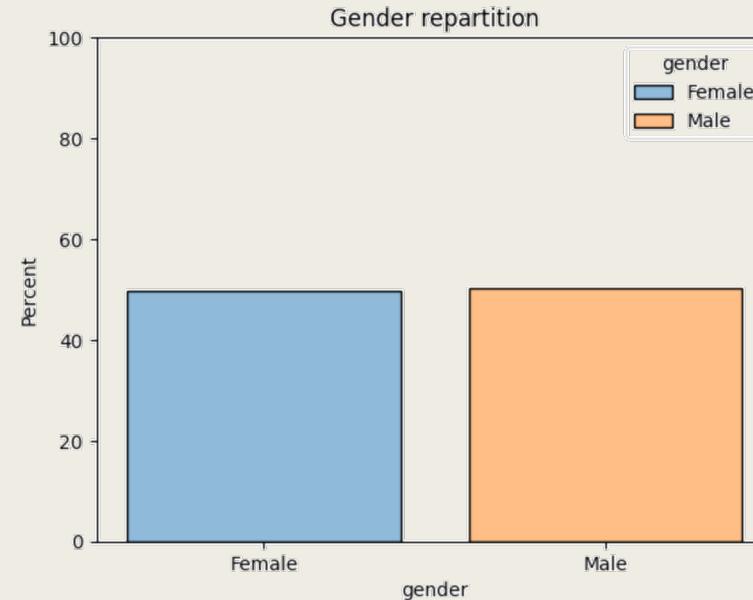
**« What will influence the obtaining of the second date ? »**

# Database exploratory

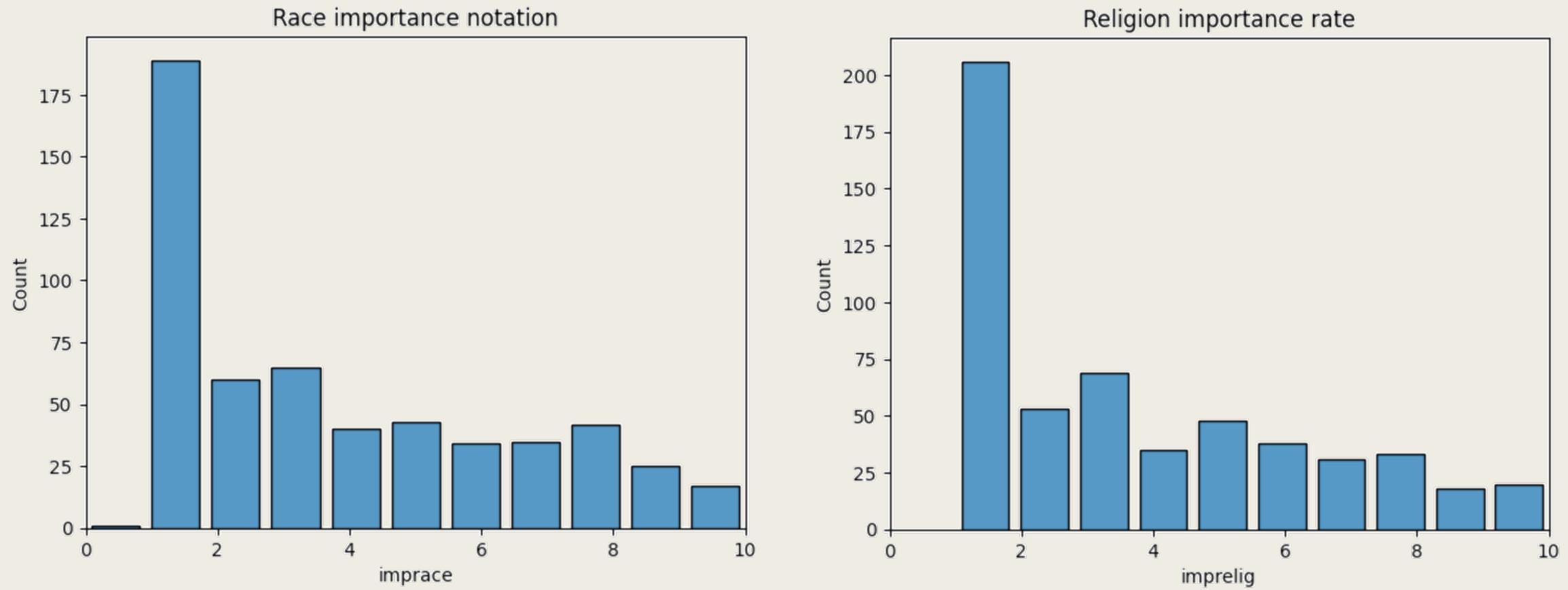
- Number of observations : 8378
- Number of features : 195
- Attributes : ['Attractive', 'Sincere', 'Intelligent', 'Fun', 'Ambitious', 'Share Interests']
- Number of candidate : 551
- Number of wave : 21
- Time : [Time1, Time2, Time3]

# CANDIDAT'S PROFILE ANALYSIS

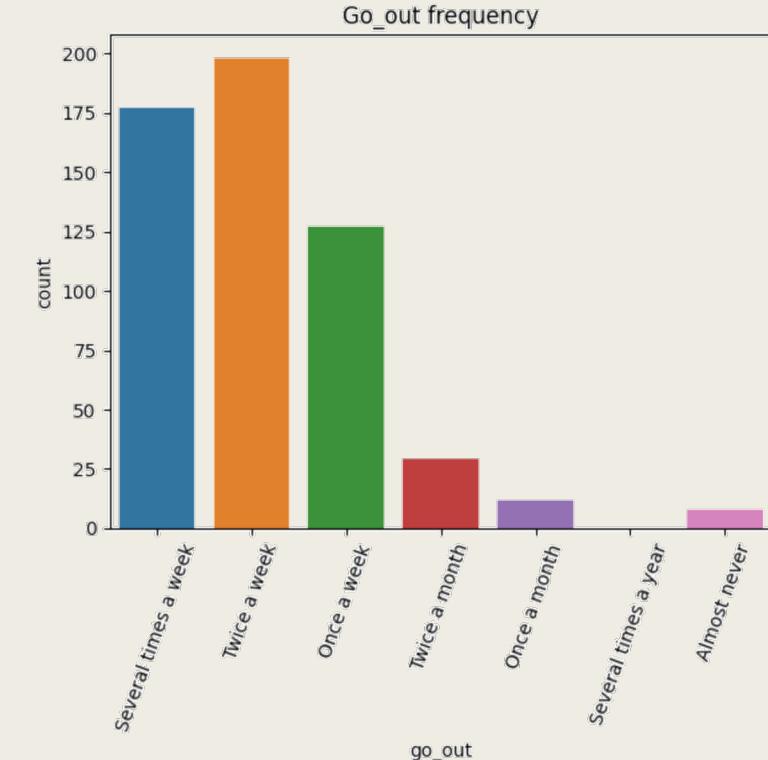
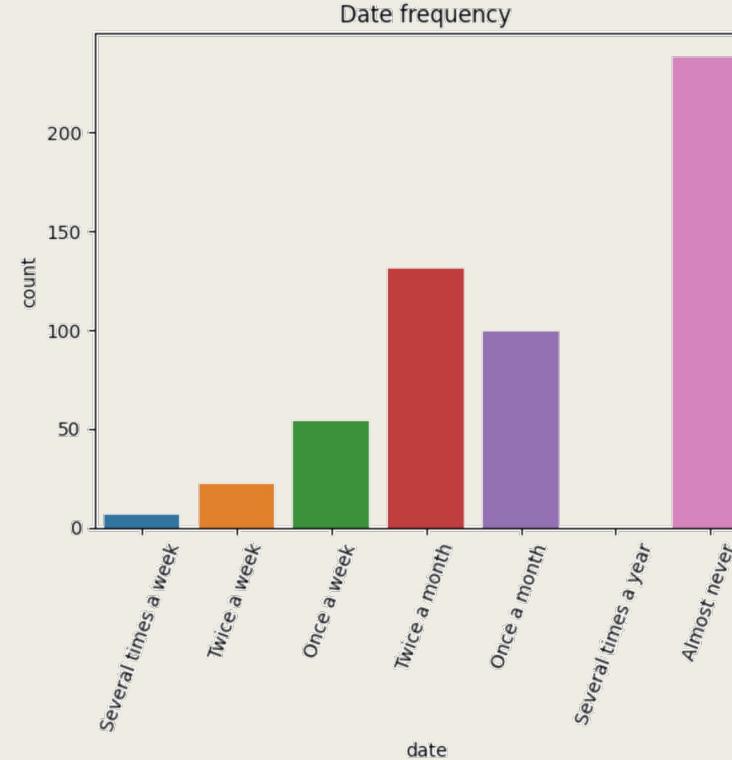
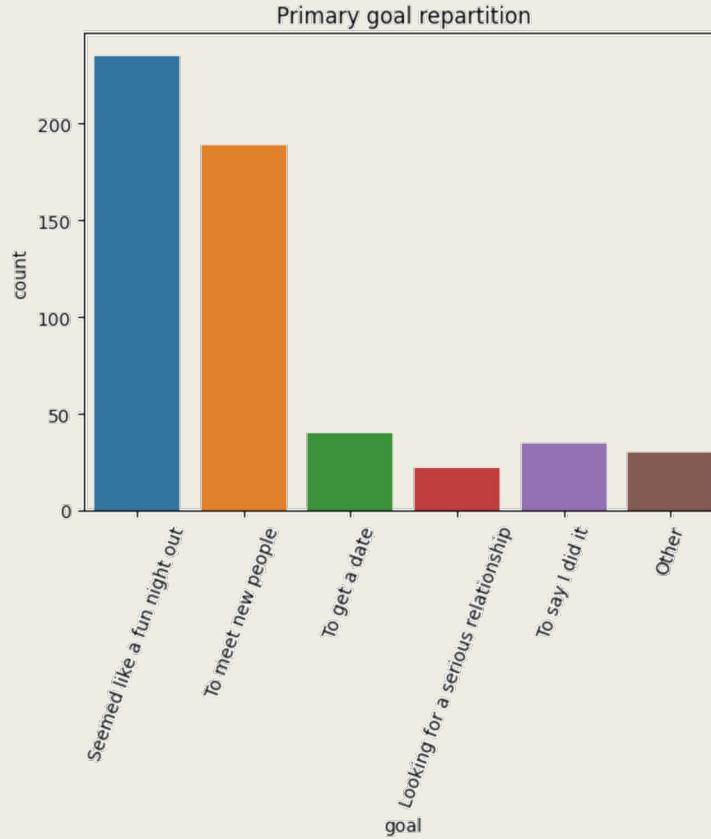




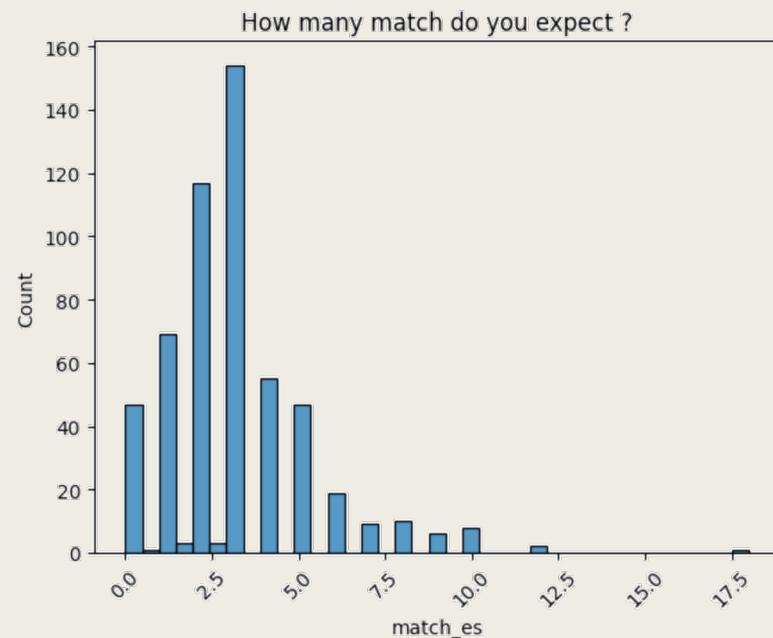
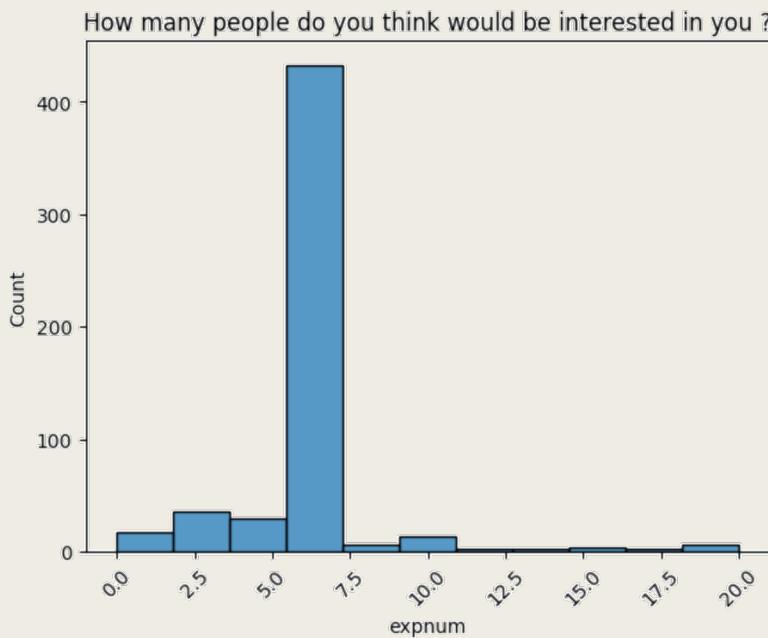
- Gender repartition between male and female is equal
- 70 % of candidate choose the extensive choice against 30% for limited choice
- Most of the age of candidate have 22-34 years old



- The Race and Religion of the partner is mostly not important to the decision



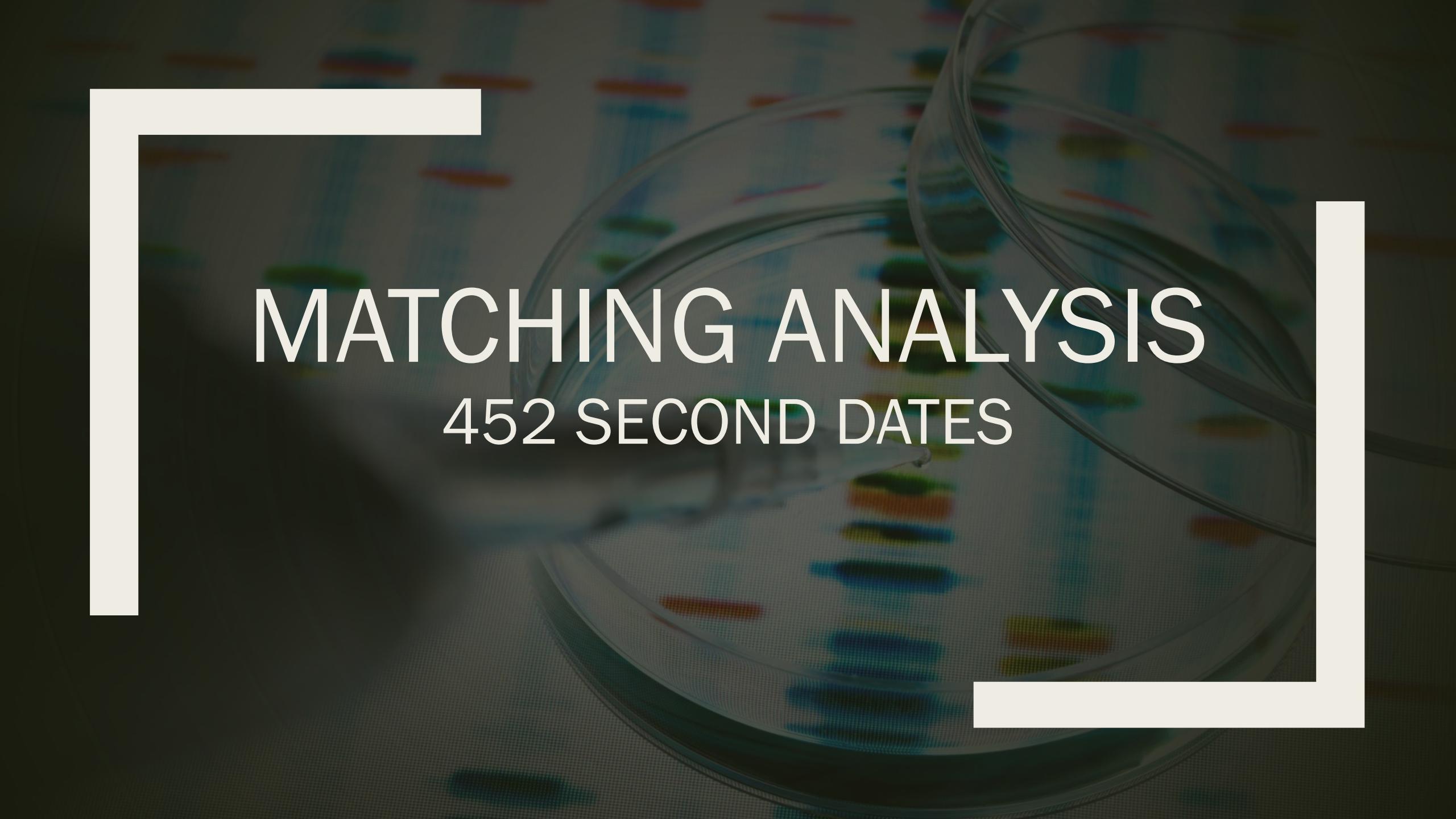
- Primary goal of candidate are coming to the speed dating for a fun night out and to meet people
- Candidates are almost never dating otherwise once or twice a month
- In the other hand, candidates often going out (several time, twice, once a week)



- Generally, candidate are half happy with their life
- They mostly expect around 6 peoples to be interested of them
- They hope to have between 2 and 5 matching

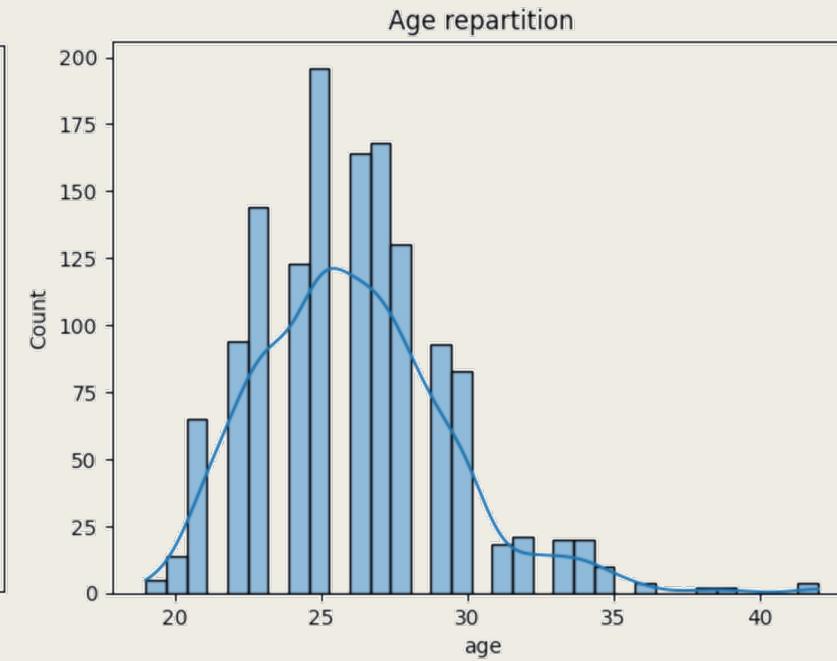
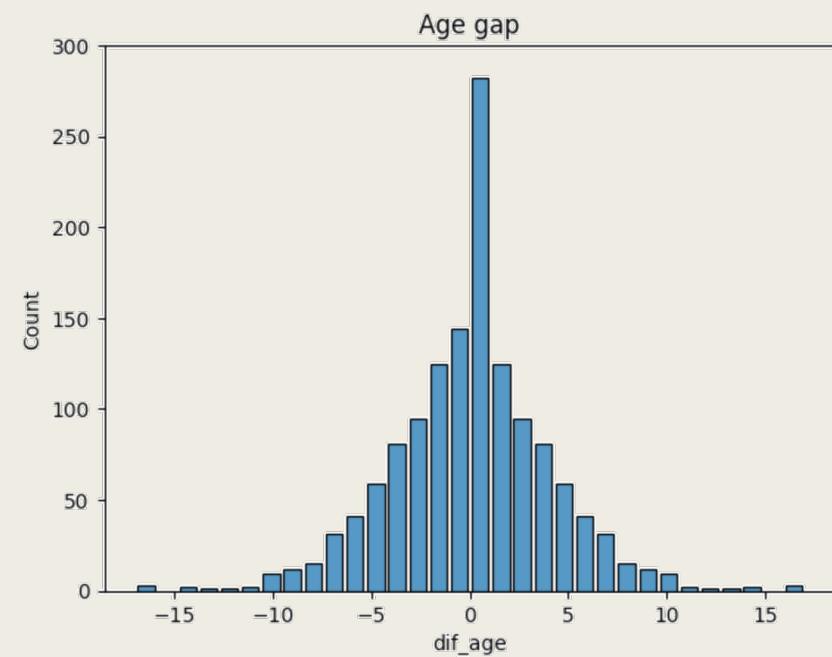
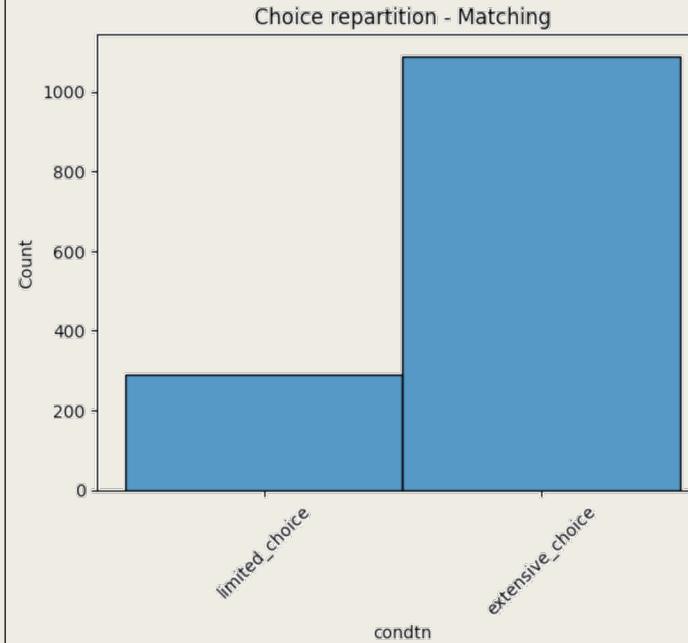
# Resume Candidate's profile

- Candidates :
  - *Took the extensive choice*
  - *Have between 22-34 years old*
  - *Don't take importance to the race and religious of the partner*
  - *Expect to pass a fun night out and wanted to meet new people*
  - *Don't often go on date but go out frequently*
  - *Are half happy with their life*

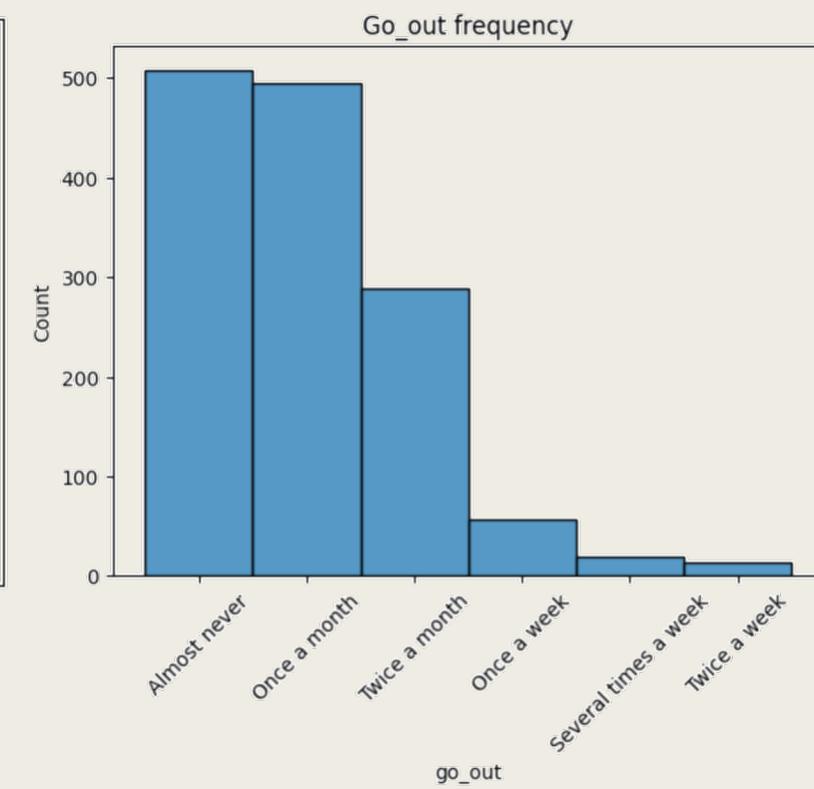
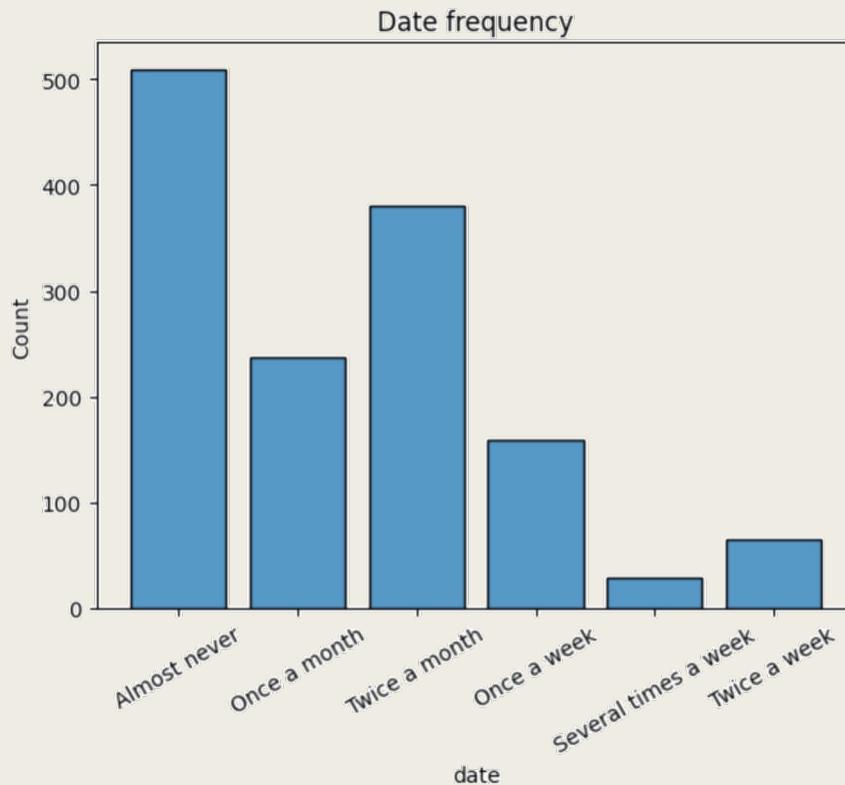
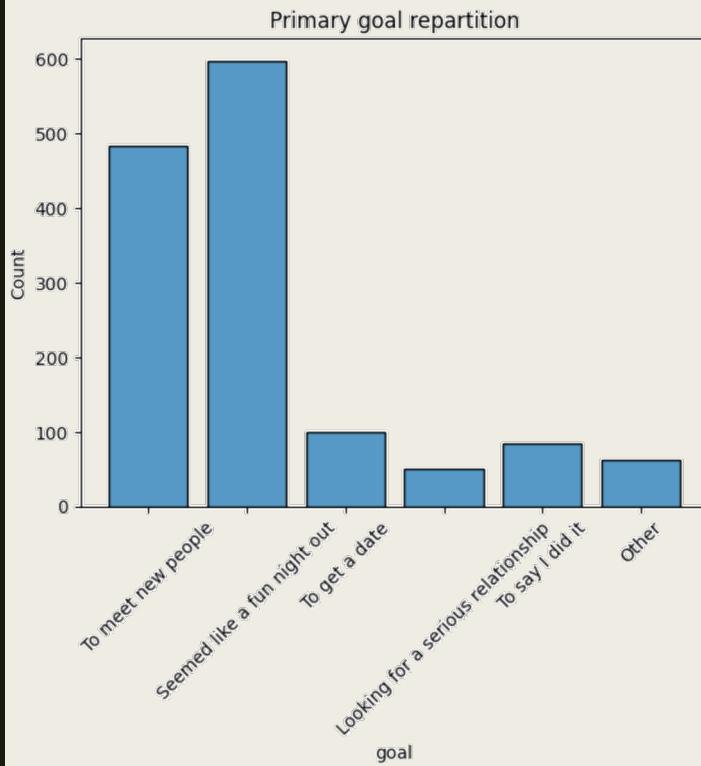
The background of the slide features a stack of numerous spiral-bound notebooks. The notebooks are bound in clear plastic sleeves and have various colored covers, including shades of blue, green, yellow, and orange. They are stacked in a somewhat disorganized manner, creating a sense of depth and texture.

# MATCHING ANALYSIS

## 452 SECOND DATES

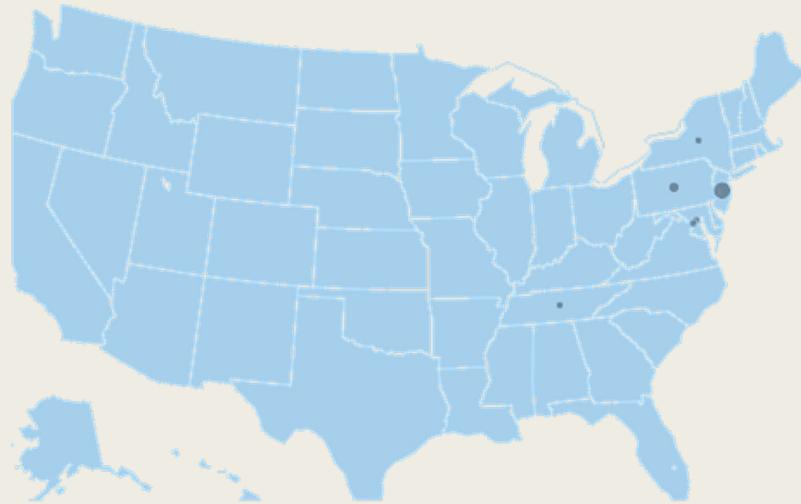


- Most of matching are due to the extensive choice
- The gap between their age are really close to small gap
- Candidates from 23 to 30 years old succeed to get a second date

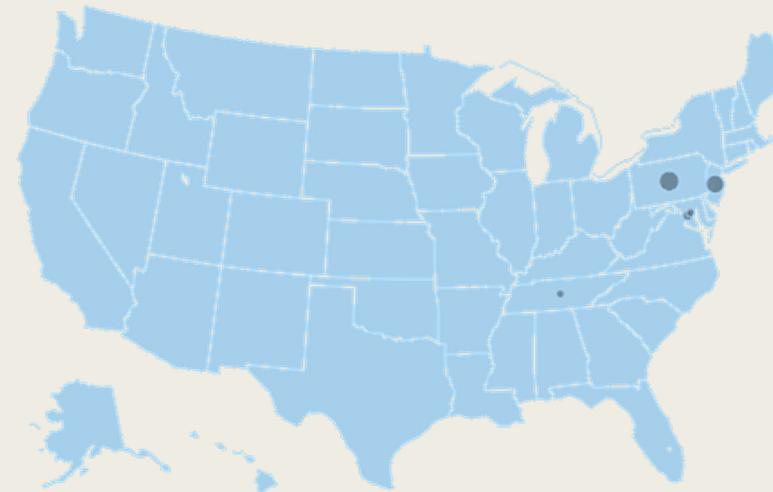


- Candidates with the state of mind with goal to meet new people and to have a fun night out are the most candidate who get a second date against people really wish to get a date, looking for a serious relationship or to say I did it
- Low date frequency of candidate is mostly the people who get a second date face to people who dating a lot
- We get the same situation for the going out frequency, most of people don't go out are more the intention to get a second date

# CANDIDATE'S LOCATIONS

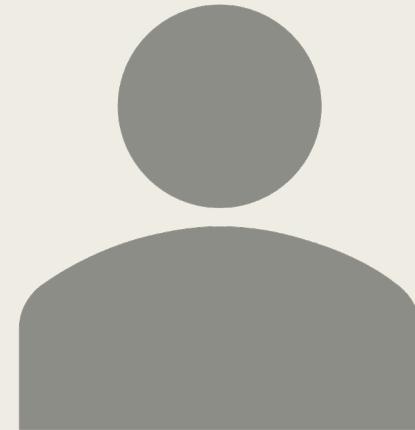


ALL CANDIDATES



ONLY MATCHING CANDIDATES

# CONCLUSION



# Matching influence

- If you :
  - *take the extensive choice*
  - *have between 23 to 30 years old*
  - *met people close to your age*
  - *have the intention to having a fun night out and wish to meet new people*
  - *don't go on date and go out frequently*

=> *You have more chance to get a second date*



TO GO FURTHER...

# TO GO FURTHER...



Analyse the rate progression on the attributes during the experiment

Analyse match with leisure

Analyse the state of mind before, during and after the date

Compare attributes and state of mind male and female matching

Analyse the non matching people

Take just a wave to try