



Report on Programming Survey

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OUTLINE



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EXECUTIVE SUMMARY



- Details about the present in IT
 - Languages
 - Databases
 - Webframes
- Future trends in IT
- Classification by demographics data:
 - Age
 - Gender
 - Countries
 - Education

INTRODUCTION



- Dataset brings data about Technologies
- Dataset was collected, cleaned and analyzed
- The purpose is comparing the data and find insights
- Main comparisons:
 - Language
 - Database
 - Webframes
 - Age
 - Gender
 - Countries

METHODOLOGY



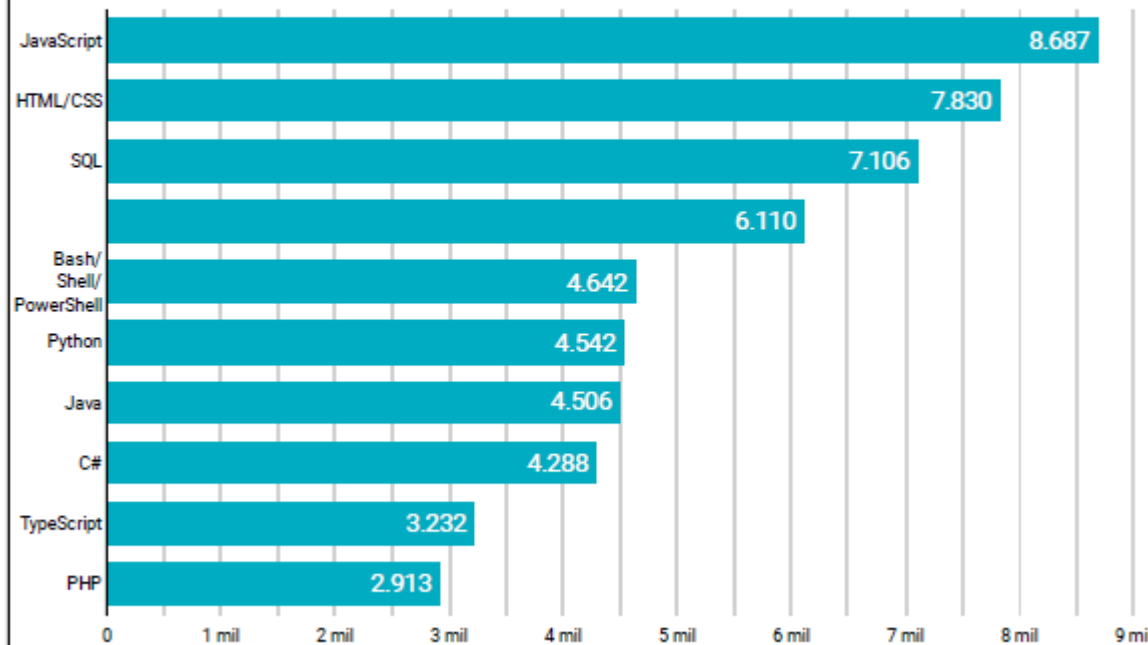
- The data was collected by API and Webscraping
- Top programming skills that are in demand
 - Job Post
 - Surveys
 - Portals

RESULTS

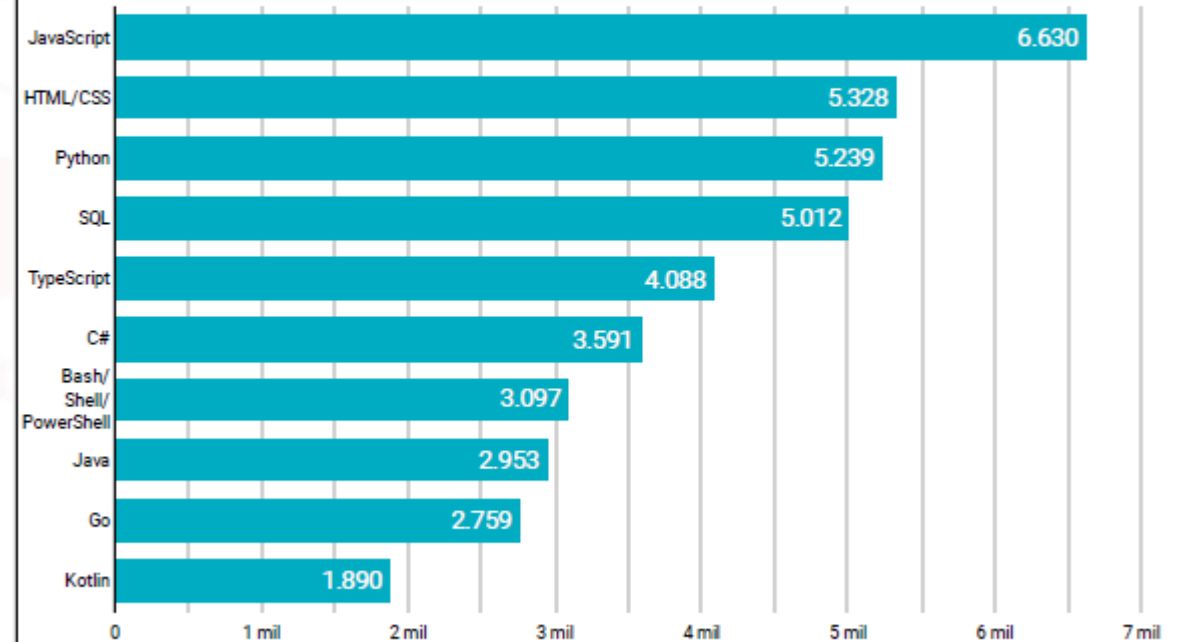


PROGRAMMING LANGUAGE TRENDS

Top 10 LanguageWorkedWith



Top 10 Language Desired next Year



PROGRAMMING LANGUAGE TRENDS - FINDINGS & IMPLICATIONS

Findings

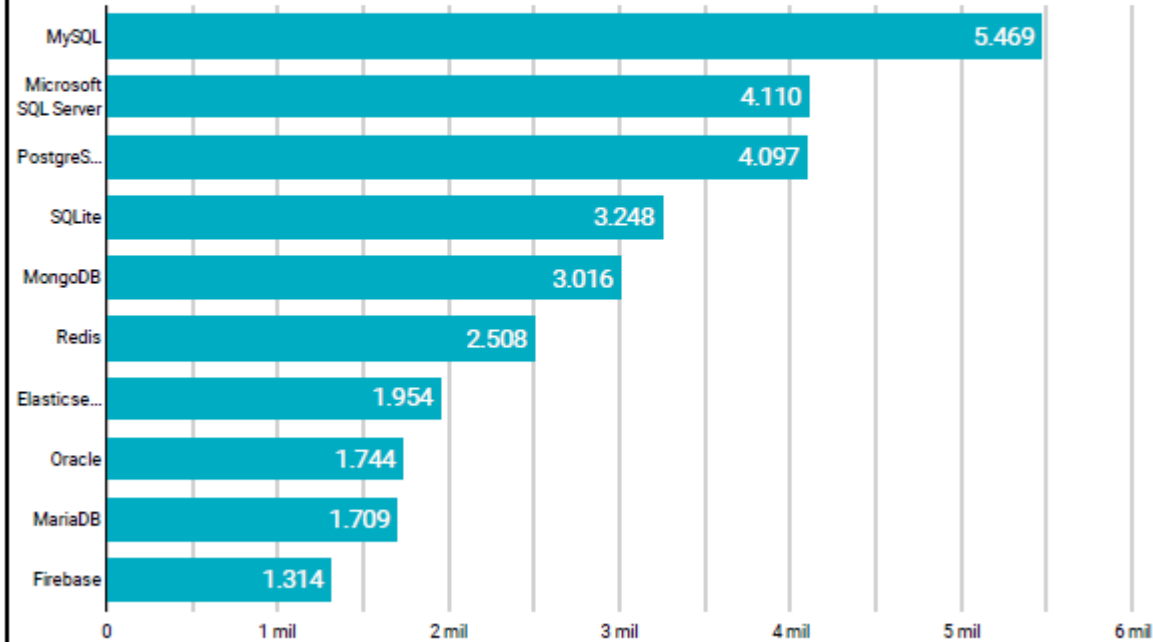
- Javascript is the top programming language
- SQL is the top 3
- Python is the top 5

Implications

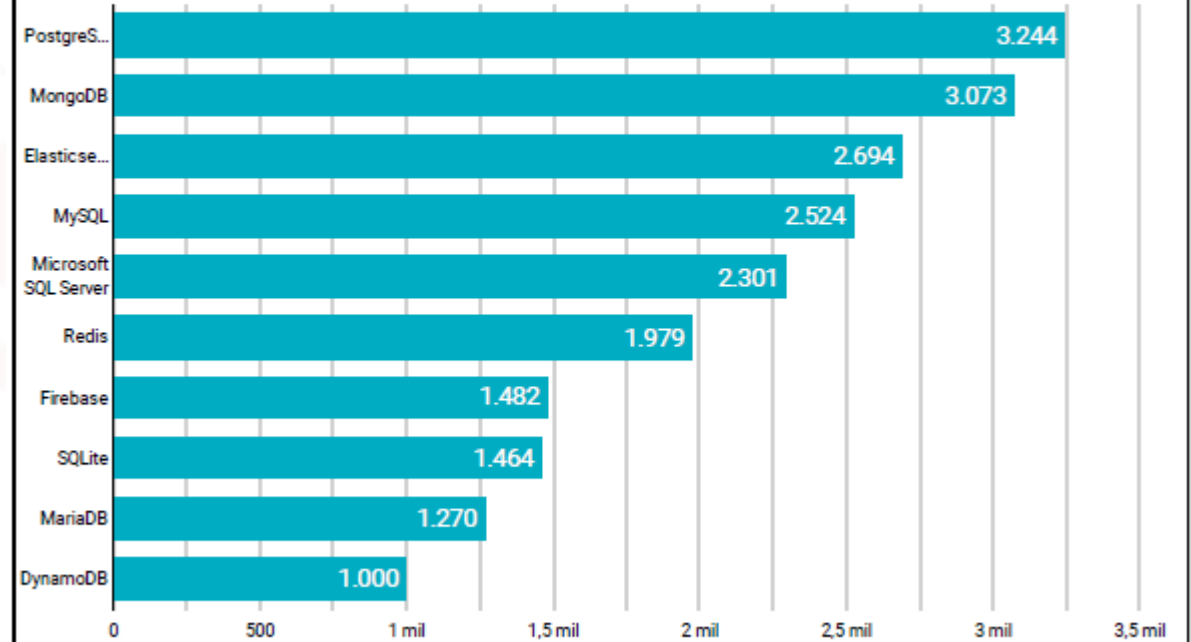
- People tends to learn more the language that has more opportunities:
 - Javascript
 - SQL
 - Python

DATABASE TRENDS

Top 10 Database Worked With



Top 10 Database Desired Next Year



DATABASE TRENDS - FINDINGS & IMPLICATIONS

Findings

- MySQL is top trending
- SQL Server and PostgreSQL are almost in the same level
- PostgreSQL and MongoDB are most desired in the future

Implications

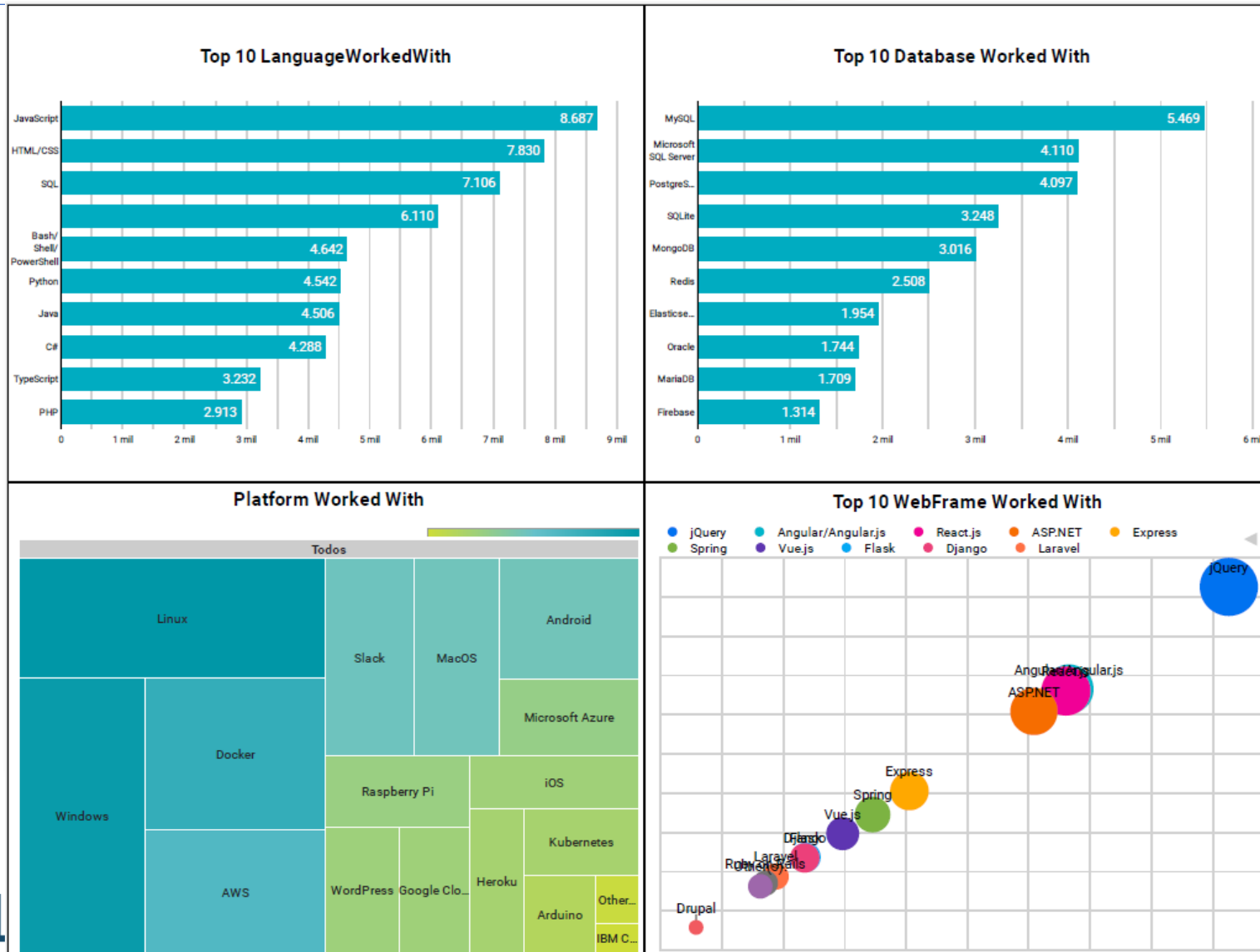
- We can see a change in the future, but the SQL languages are very similar.

DASHBOARD

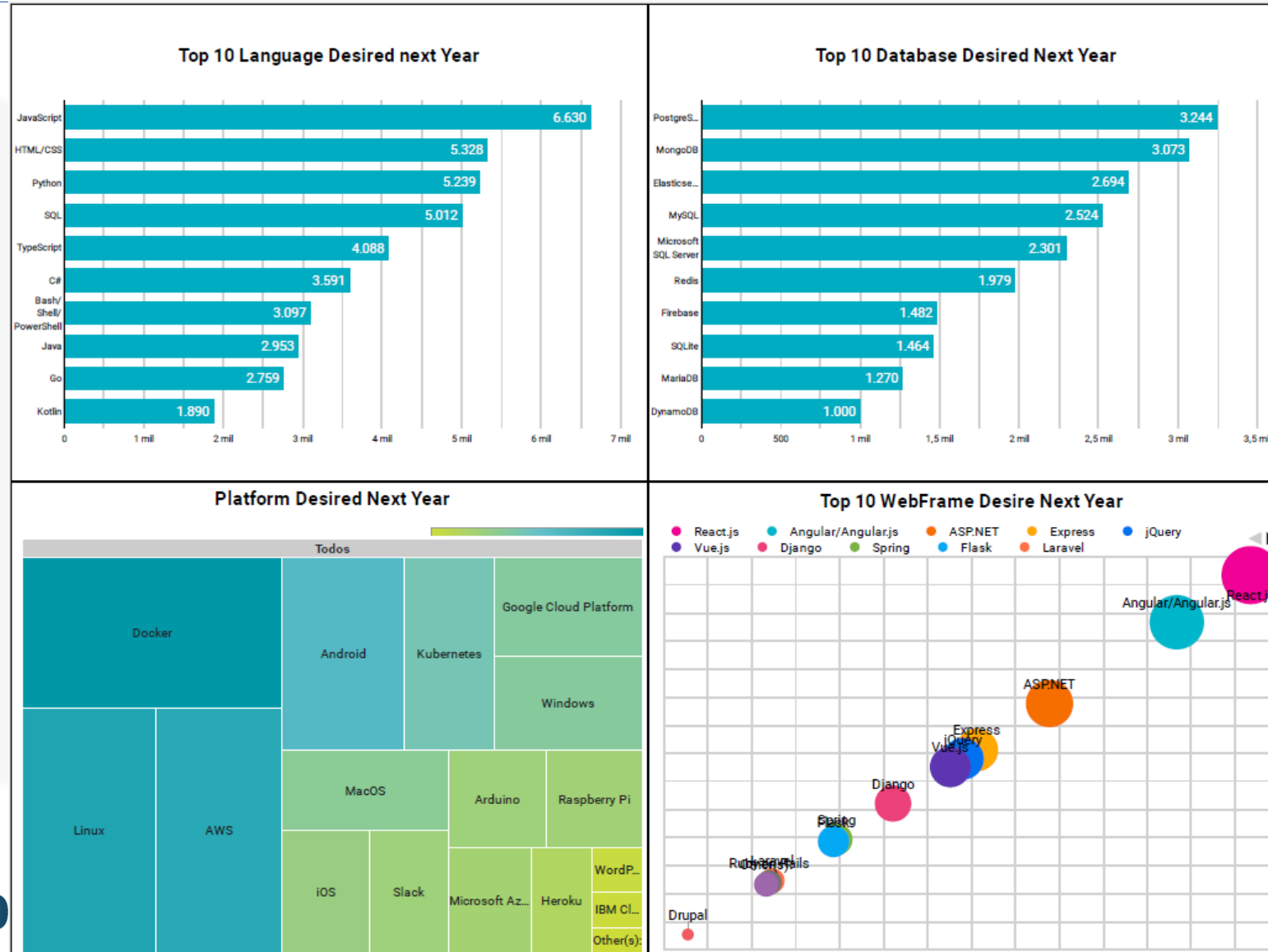


[https://github.com/alexandre-ferreira-1986/Portfolio/blob/main/Python/Coursera/Mod05_Looker
IBM Data Analyst Certification.pdf](https://github.com/alexandre-ferreira-1986/Portfolio/blob/main/Python/Coursera/Mod05_Looker_IBM_Data_Analyst_Certification.pdf)

DASHBOARD TAB 1

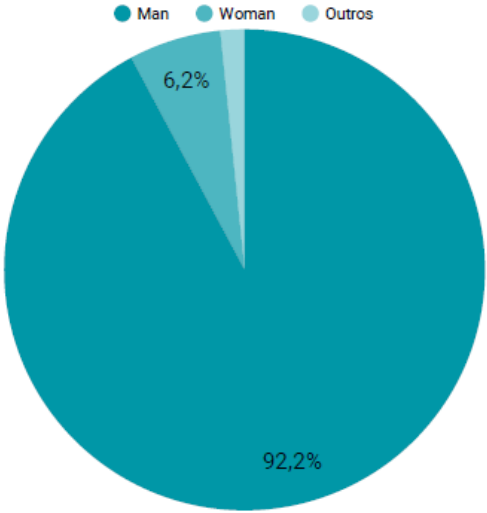


DASHBOARD TAB 2

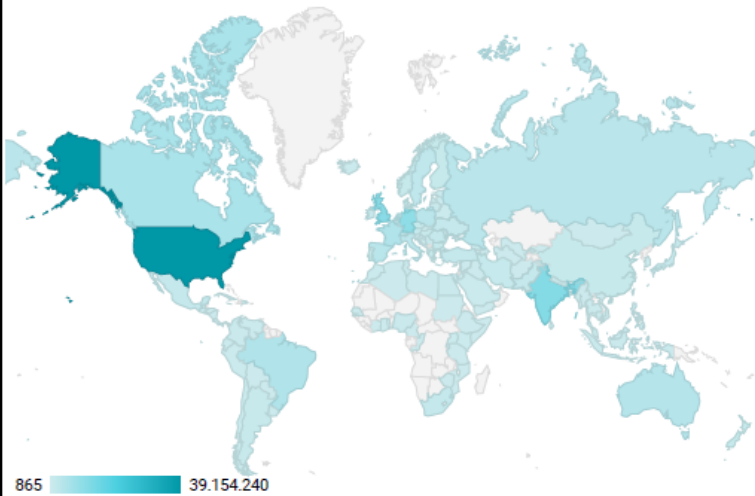


DASHBOARD TAB 3

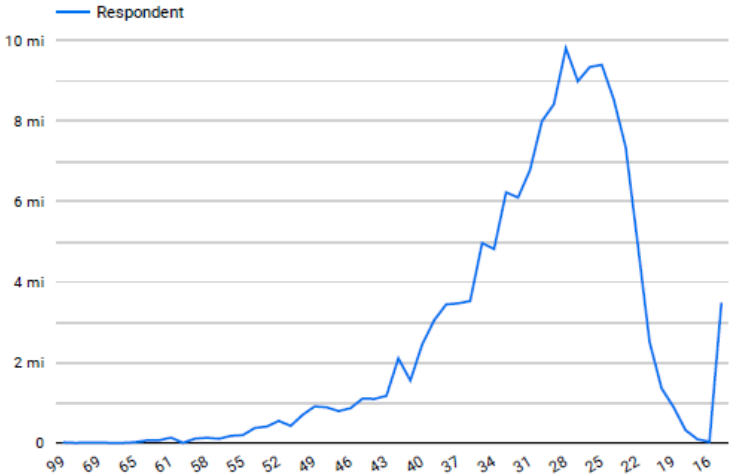
Respondent classified by Gender



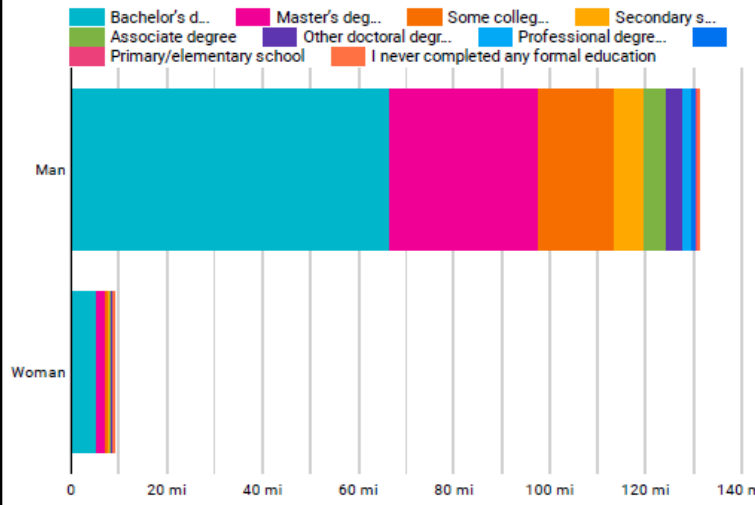
Respondent Count for Countries



Respondent Count for Countries



Respondent Count by Gender, classified by Formal Education Level.



DISCUSSION



OVERALL FINDINGS & IMPLICATIONS

Findings

- The Male gender represents 92% in the survey.
- A large percentage has a Bachelor or a Master Degree.

Implications

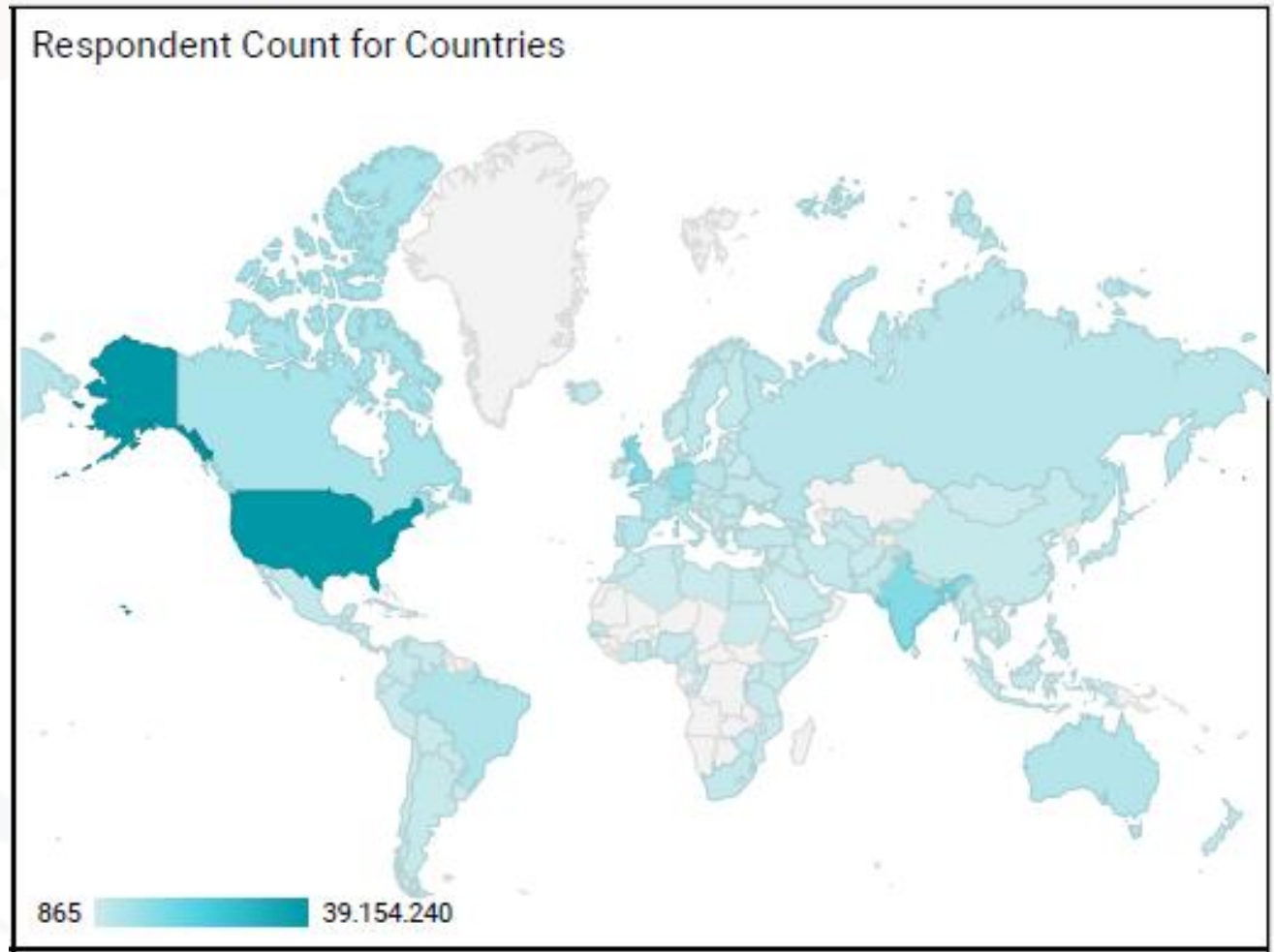
- It's more difficult to a woman enter in the IT career, maybe company's need to change the process to improve it.
- People with formal education has more chances.

CONCLUSION

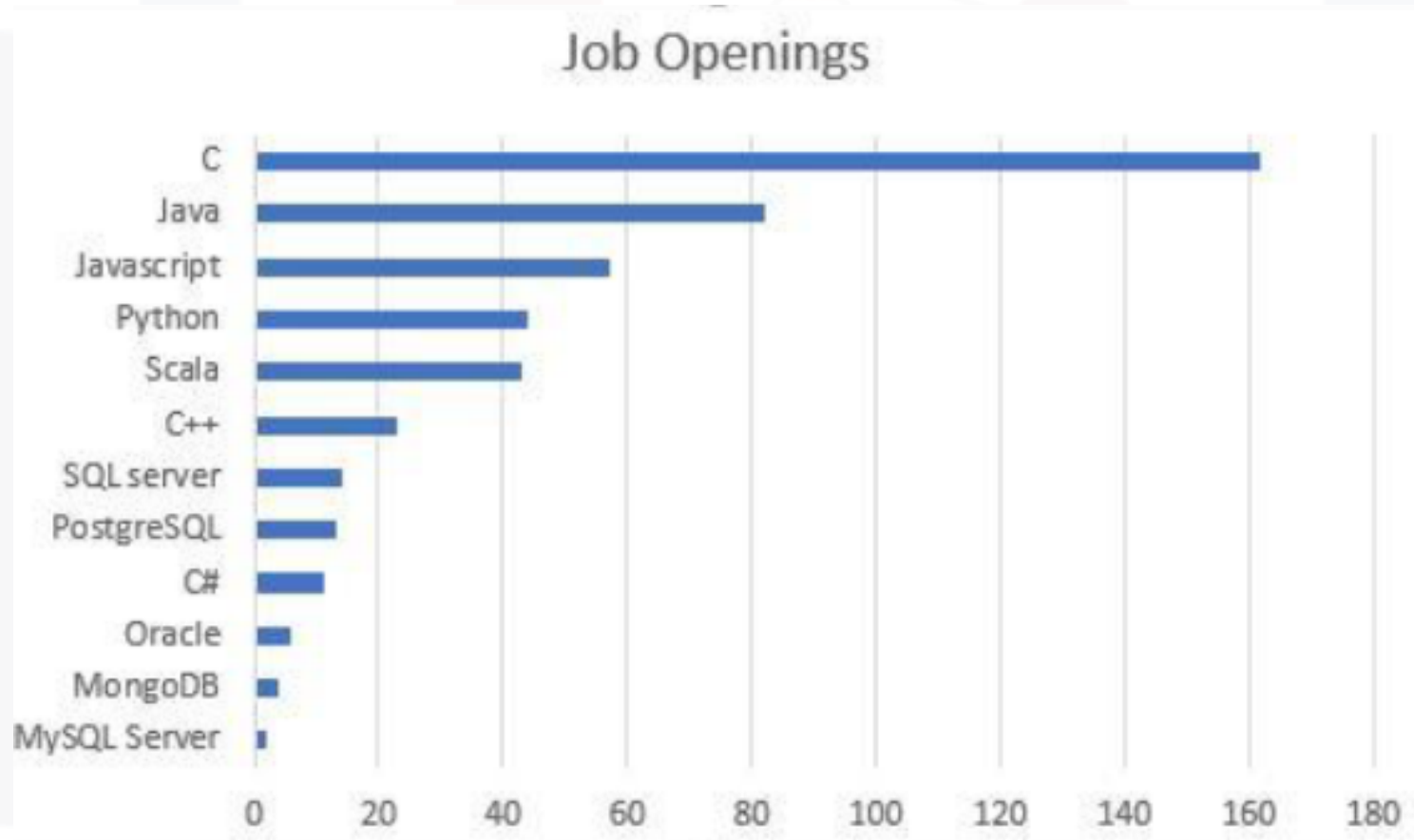


- Javascript is the language with most people working with, but we have important languages as SQL and Python in the sequence.
- Male gender is dominant, and it's important to change it.

APPENDIX



JOB POSTINGS



POPULAR LANGUAGES

