



# JOB POSTINGS DEVELOPERS ANALYSIS

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# OUTLINE

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- Executive Summary
- Introduction
- Methodology
- Results
  - Visualization – Charts
  - Dashboard
- Discussion
  - Findings & Implications
- Conclusion
- Appendix

# EXECUTIVE SUMMARY

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- The relevant skills required in the global IT field and business are continuously changing and evolving.
- In order to keep pace with the changing technologies and remain competitive, it is important to identify future skills.
- This presentation will show the current and future trends of Programming Languages, Data Bases, Web-Frames, that are most required in development field.
- This presentations main goal is to answer the following question;
  - What are the most popular programming languages?
  - What are top database skills in demand?
  - What are the popular IDEs?
- The aim of identifying the current and future trends and requirements of skills is to help the firm make more data-driven hirings and decisions.

# INTRODUCTION

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- This presentation is made for the stakeholders and business decision makers with in the global IT and business consultants for the firm.
- This presentation will help identifying current and future skills and trends which will help the global IT and business consulting services firm to keep in pace with ever-changing and evolving technologies and remain competitive
- Recommendations will be stated on the base of analysis.

# METHODOLOGY

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- The data used for the analysis is the modified subset of the job posting services, the data was wrangled in order to remove duplicate rows, missing rows and normalize data.
- Then, the data underwent through exploratory analysis, in order to find distribution of the dataset, correlations between different columns and presence of outliers.
- The data was then used to visualize the distribution, relation between two attributes and the comparison and composition of the data.
- Additional two data filled files were used to build three dashboards that show-case key performance indicators, that will help the stakeholders and business decision makers easily understand the important aspects of the analysis. The files that were used are;
  - Survey data Demographics
  - Survey data technologies

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# RESULTS

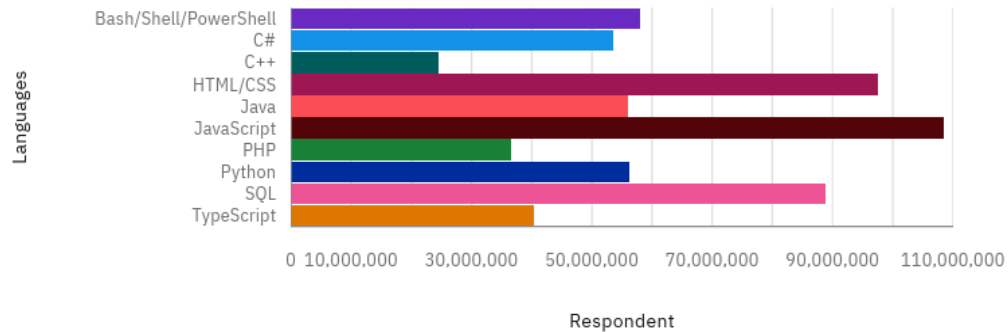
# PROGRAMMING LANGUAGE TRENDS

## Current Year

### Current Technology Usage

#### TOP 10 PROGRAMMING LANGUAGES

##### LanguageWorkedWith

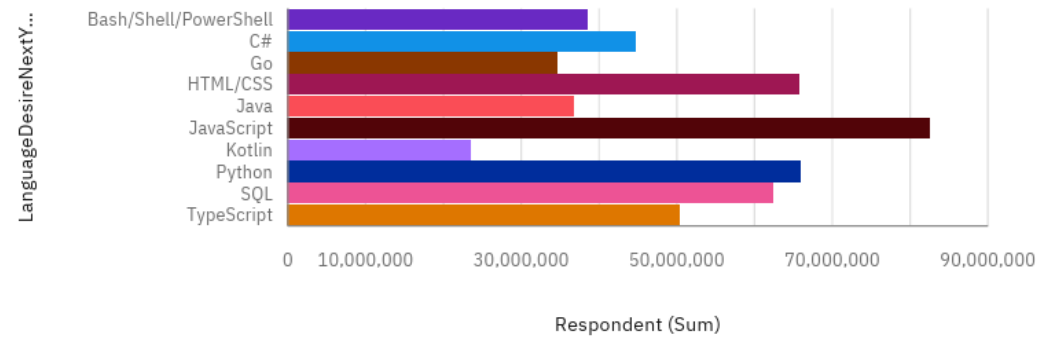


## Next Year

### Future Technology Trend

#### TOP 10 LANGUAGES DESIRE NEXT YEAR

##### LanguageDesireNextYear



# PROGRAMMING LANGUAGE TRENDS - FINDINGS & IMPLICATIONS

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## Findings

- JavaScript and HTML/CSS continues to be top most demanded language for the current and the next year.
- Python and SQL has gained more interest in the industry.
- Interest in C++ and PHP decreased throughout the year and for the next.

## Implications

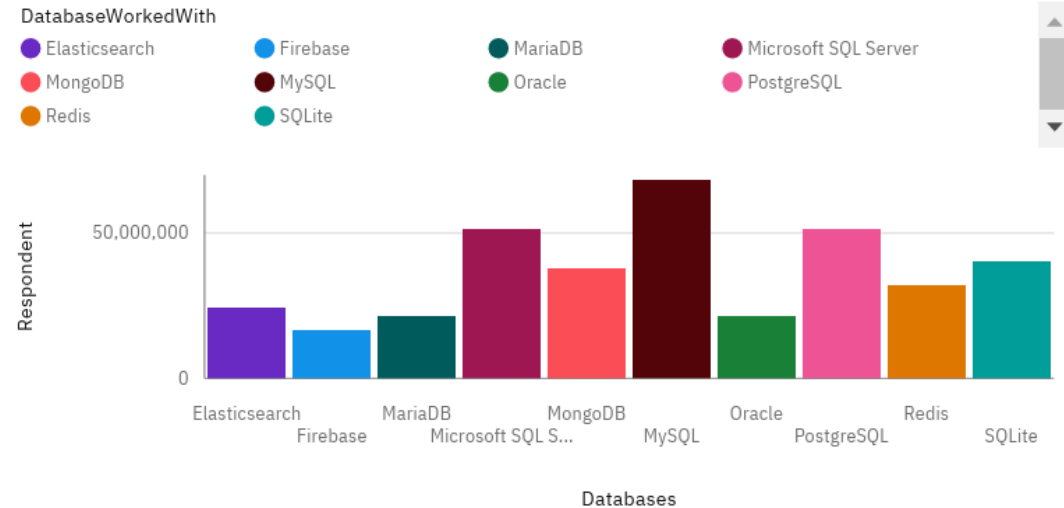
- You can think of employing people based on skills of JavaScript and HTML/CSS.
- You can also employ skilled people in Python and SQL.
- You can employ less people skilled in C++ and PHP.



# DATABASE TRENDS

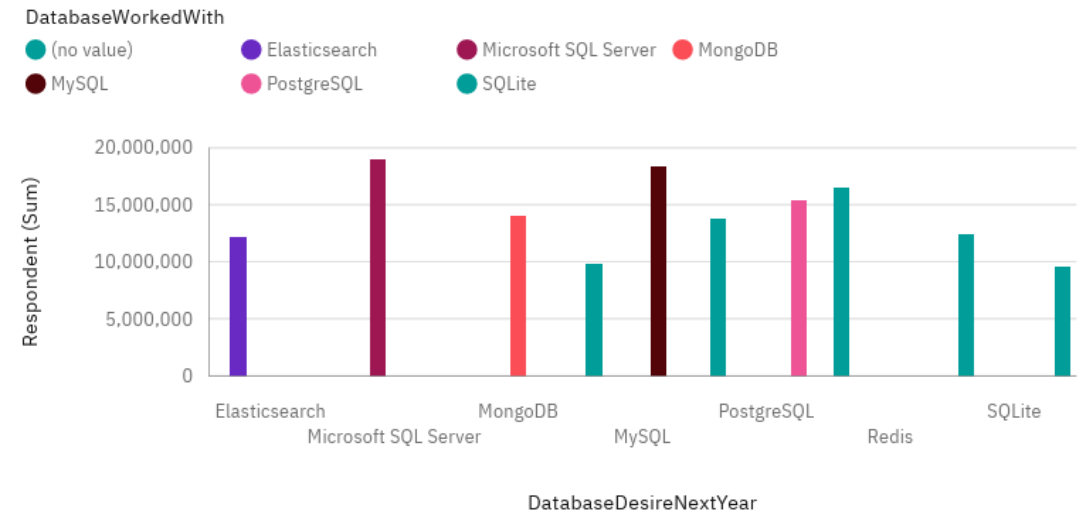
## Current Year

TOP 10 DATABASES TO WORKED WITH



## Next Year

TOP 10 DATABASES DESIRE NEXT YEAR



# DATABASE TRENDS - FINDINGS & IMPLICATIONS

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## Findings

- MySQL and Microsoft SQL Server tops the list of Top 10 most desired Databases for current and the next year.
- Interest in MongoDB and Redis has increased for the coming year.
- Whereas interest in Oracle and Firebase has decreased.

## Implications

- You can employ more people skilled in MySQL and Microsoft SQL Server.
- You can also employ people skilled in Mongo DB and Redis.
- You can employ less people skilled in Oracle and Firebase.

# DASHBOARD

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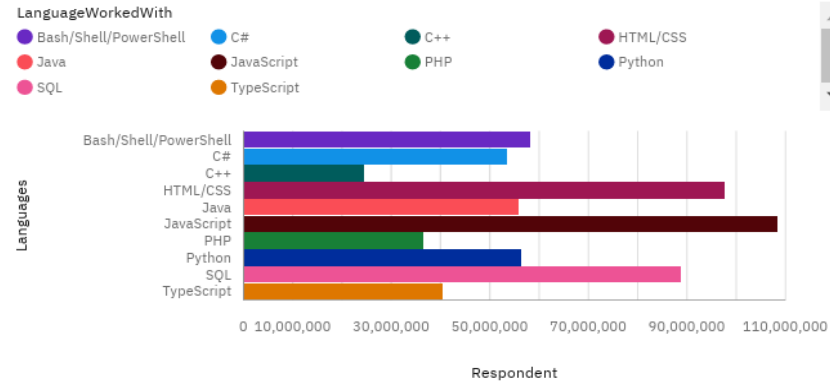


[<You can click here for the Cognos dashboard>](#)

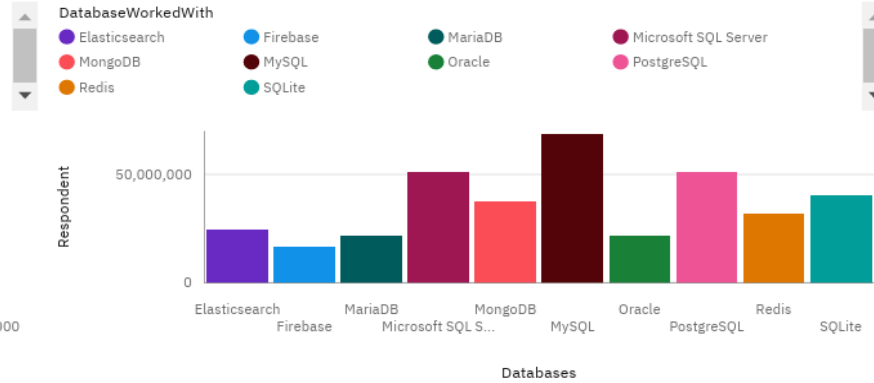
# DASHBOARD TAB 1

## Current Technology Usage

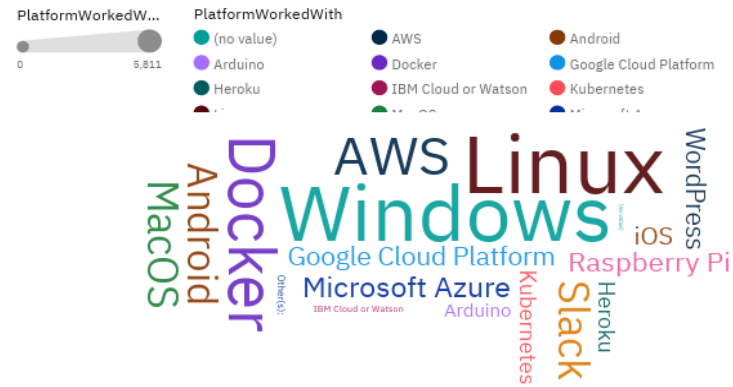
## TOP 10 PROGRAMMING LANGUAGES



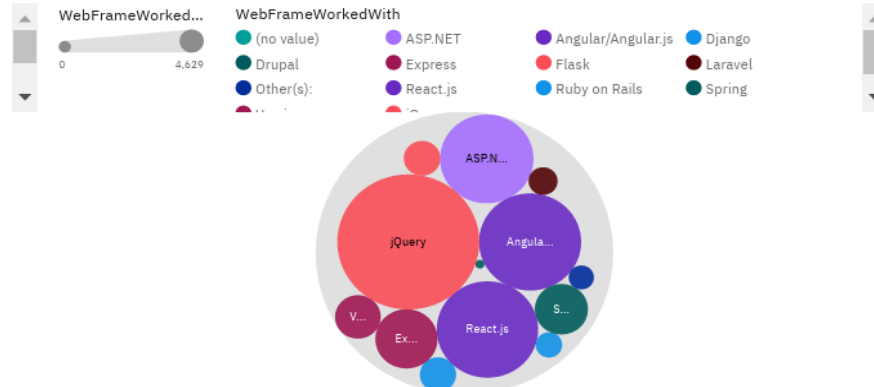
## TOP 10 DATABASES TO WORKED WITH



## MOST USED PLATFORMS



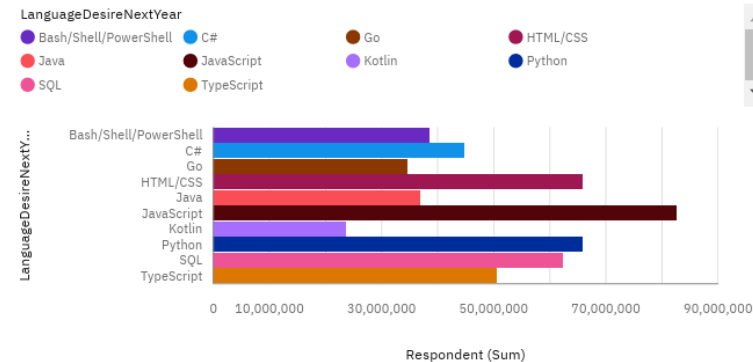
## TOP 10 WEBFRAMES USED



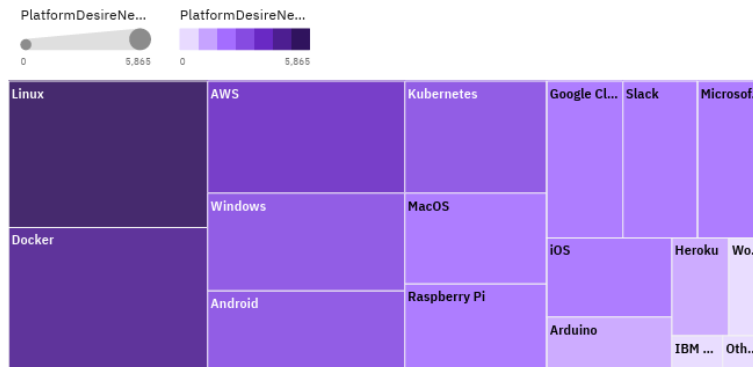
# DASHBOARD TAB 2

## Future Technology Trend

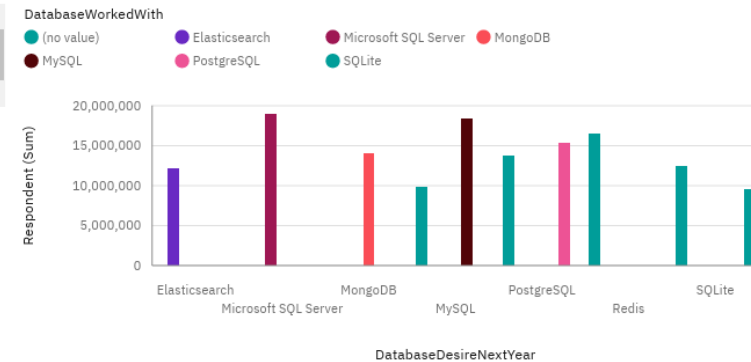
### TOP 10 LANGUAGES DESIRE NEXT YEAR



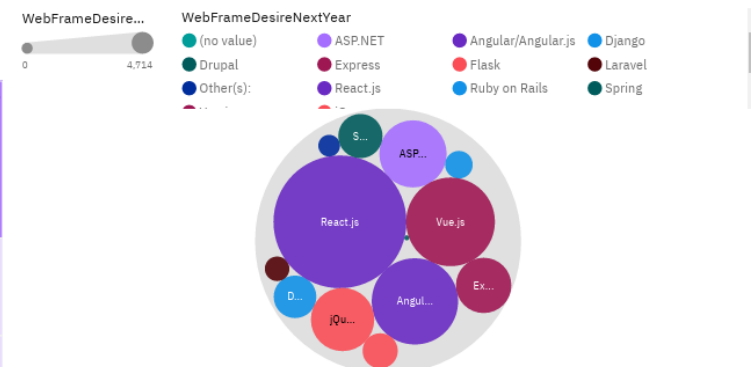
### PLATFORM DESIRE NEXT YEAR



### TOP 10 DATABASES DESIRE NEXT YEAR



### TOP 10 WEBFRAMES DESIRE NEXT YEAR

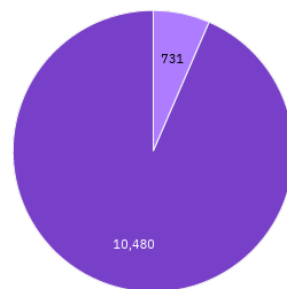


# DASHBOARD TAB 3

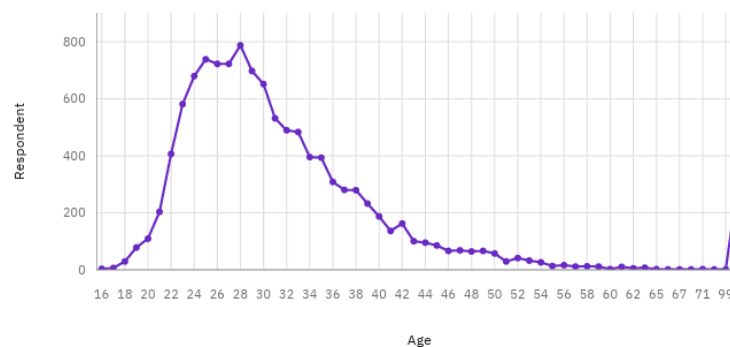
## DEMOGRAPHICS

### Respondent by Gender

Gender  
Woman Man

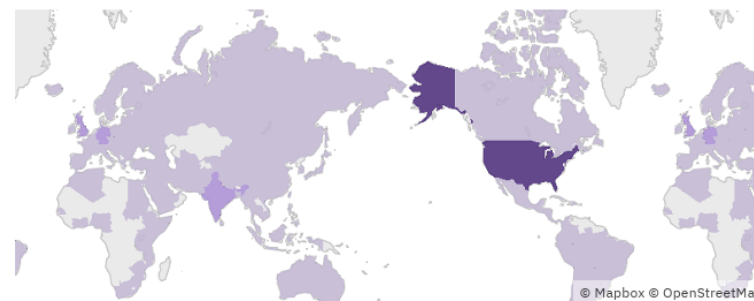


### Respondent by Age

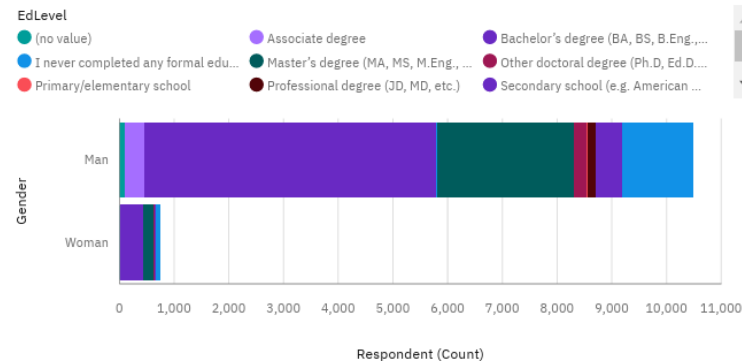


### RESPONDENT COUNT FOR COUNTRIES

Country (Count) Respondent (Cou...  
1 3,127 1 3,127



### Respondent by Gender colored by EdLevel



# DISCUSSION

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- Upskilling in the technology sector.
- How do we close the wide gender gap in the technology sector?
- Is completing the doctorate or master's degree really a requirement?
- The increasing demand for mobile development as kotlin is getting popular.
- More Tech education, access and development in less developed regions in South East Asia, South America, Africa and some parts of America.
- How relevant will Oracle SQL still be in the future?

# OVERALL FINDINGS & IMPLICATIONS

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## Findings

- Most people in the IT field have Bachelor's Degree.
- Web Development Languages are most popular and on-demand tools currently in the IT field
- Most of the men workers in the IT field are Under the age of 40.
- 90% workers in the IT field are men.
- Most respondents want to learn MySQL, Microsoft SQL Server, HTML/CSS, JavaScript next year.

## Implications

- It is important for developers to build proficiencies in HTML/CSS, JavaScript, MySQL.
- Web Development is still a lucrative skill.
- Less developed countries need more access to tech training and education.



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# CONCLUSION

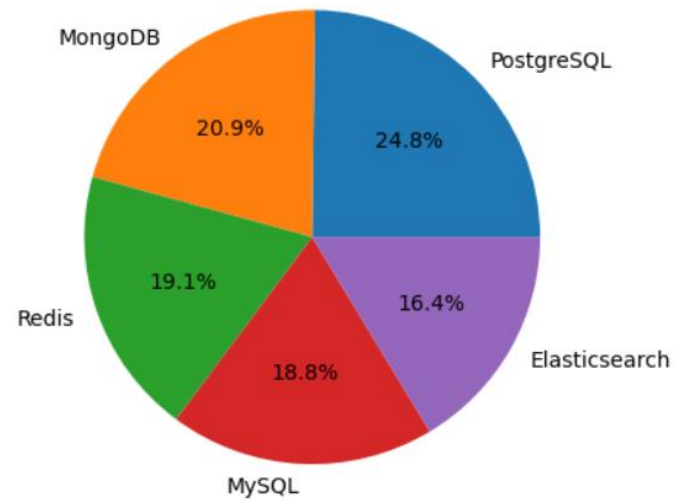
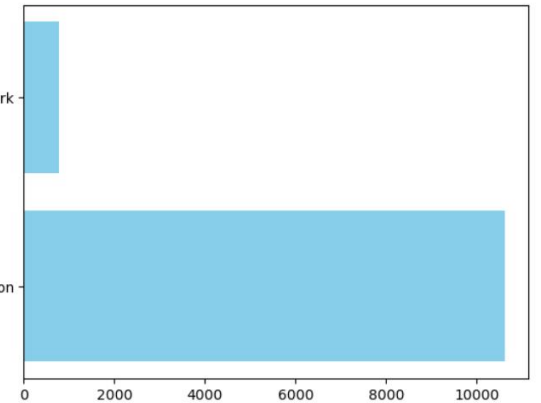
It is Expedient to stay updated in the text sector as the trends keep changing over.

# APPENDIX

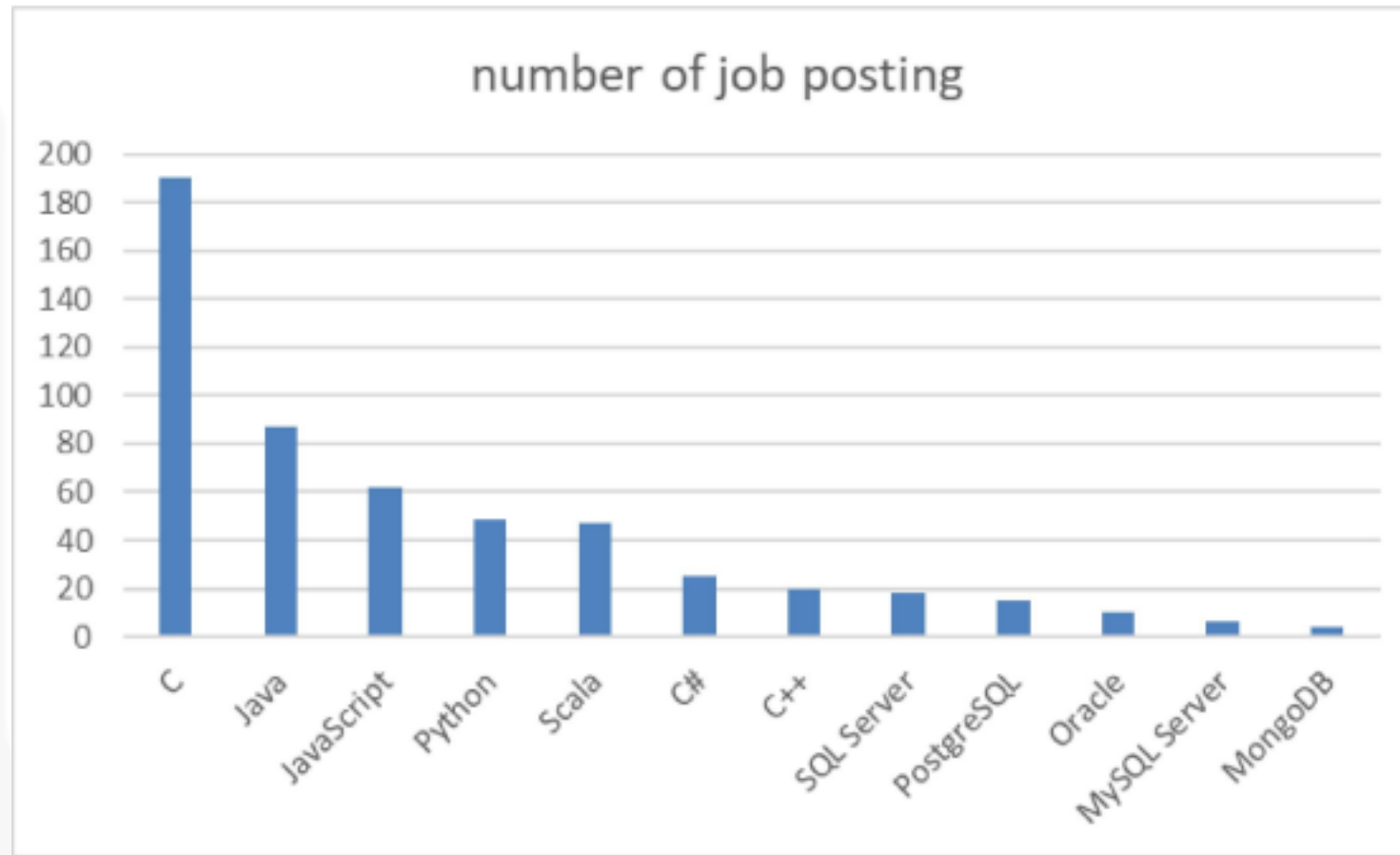
```
: Man 10480
Woman 731
Non-binary, genderqueer, or gender non-conforming 63
Man;Non-binary, genderqueer, or gender non-conforming 26
Woman;Non-binary, genderqueer, or gender non-conforming 14
Woman;Man 9
Woman;Man;Non-binary, genderqueer, or gender non-conforming 2
Name: Gender, dtype: int64
```

I am not primarily a developer, but I write code sometimes as part of my work

I am a developer by profession



# JOB POSTINGS



# POPULAR LANGUAGES

