

# Data Analyst Survey

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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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- There are many common programming languages.
- There are two major Databases: PostgreSQL and Microsoft SQL Server.
- Higher education is necessary in a career in development.
- There exist many development opportunities in the USA.



# INTRODUCTION

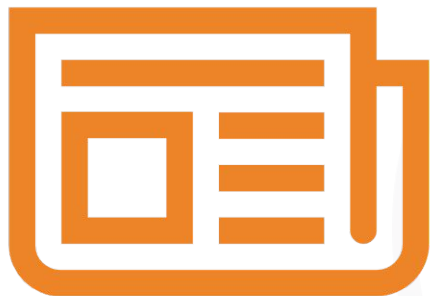
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- This report gives insights into the current and future development job markets.
- This will grant insights to skill-seekers:
  - Valuable languages and databases
  - The prevalence of higher education in the current job market
  - Countries with the most opportunities

# METHODOLOGY

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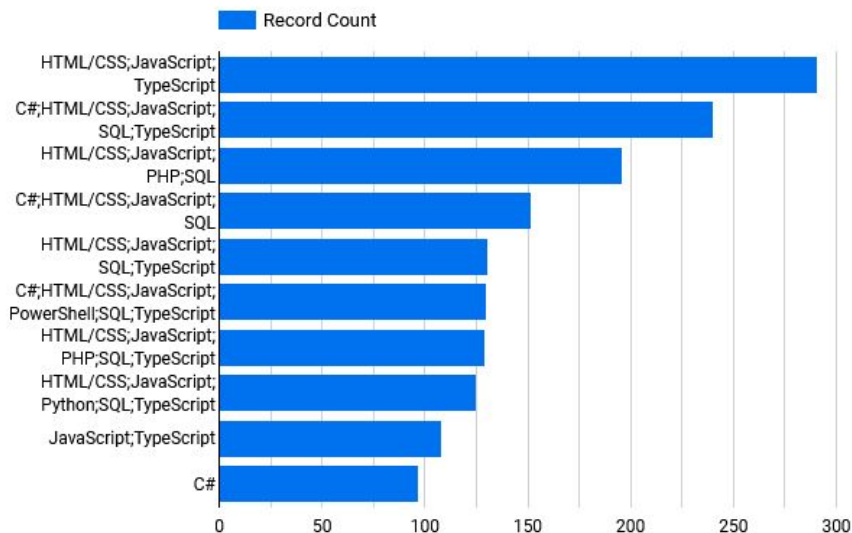


- Data sources, collection methods, key wrangling steps
- Data sourced from the [2024 Developer Survey](#)
- Data collected via web scraping
- Completed key data wrangling steps:
  - Removed duplicates
  - Imputed missing values
  - Normalized data
  - Removed outliers

# PROGRAMMING LANGUAGE TRENDS

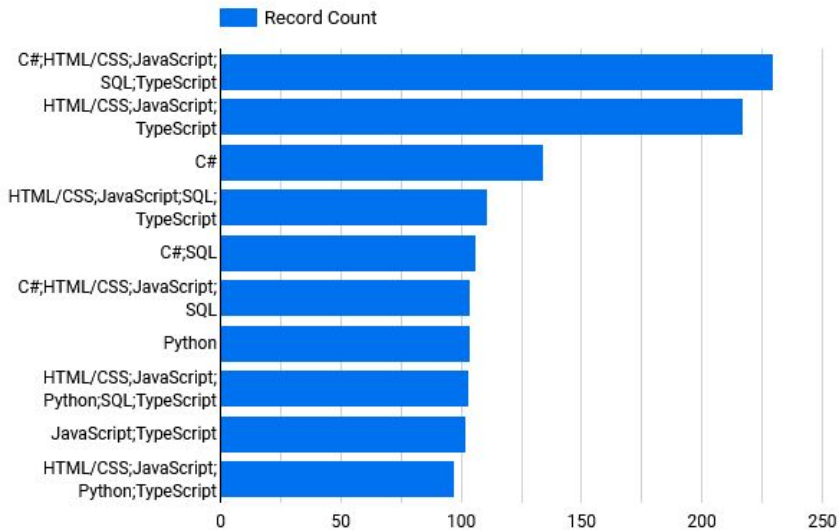
## Current Year

Top 10 Current Languages



## Next Year

Top 10 Future Languages



# PROGRAMMING LANGUAGE TRENDS - FINDINGS & IMPLICATIONS

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## Findings

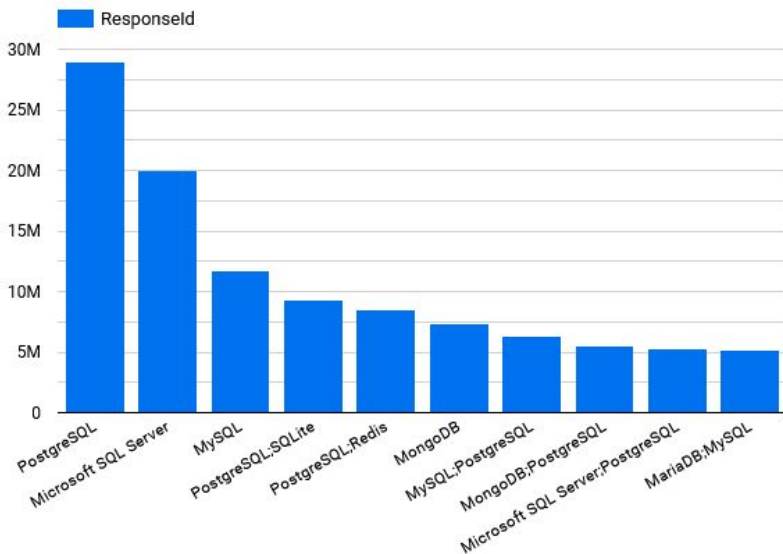
- Python is not a very common language currently, but is one that many want to learn.
- Fewer people want to learn HTML/CSS than those who use it.
- More people want to learn C# than those who use it.

## Implications

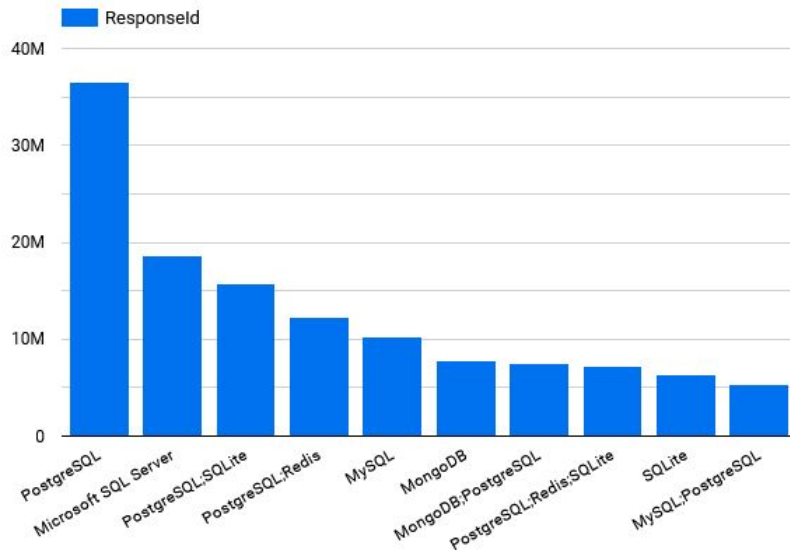
- Python and C# are languages that may be on the rise.
- HTML/CSS may be on the decline.

# DATABASE TRENDS

Top 10 Current DataBases



Top 10 Future DataBases





# DATABASE TRENDS - FINDINGS & IMPLICATIONS

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## Findings

- PostgreSQL and Microsoft SQL Server are consistently the most popular.
- More people want to learn Redis than currently use it.
- MongoDB has roughly equal amounts of people who use it and want to use it.

## Implications

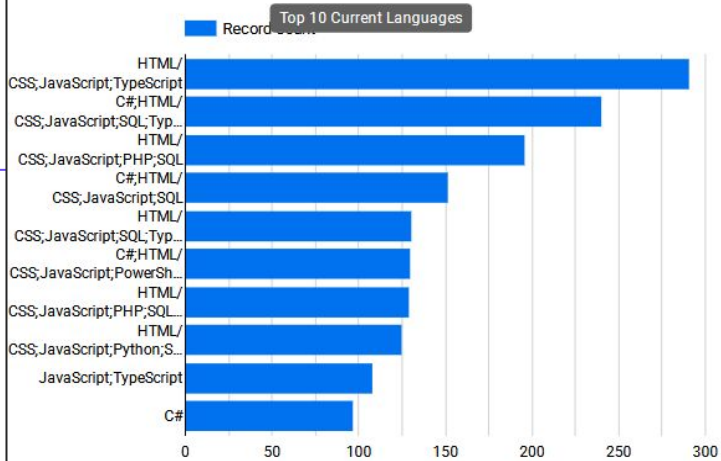
- PostgreSQL and Microsoft SQL Server continue to be dominant database services.
- Redis may be growing in popularity.
- MongoDB is not as dominant as other platforms, but maintains steady usership.

# DASHBOARD

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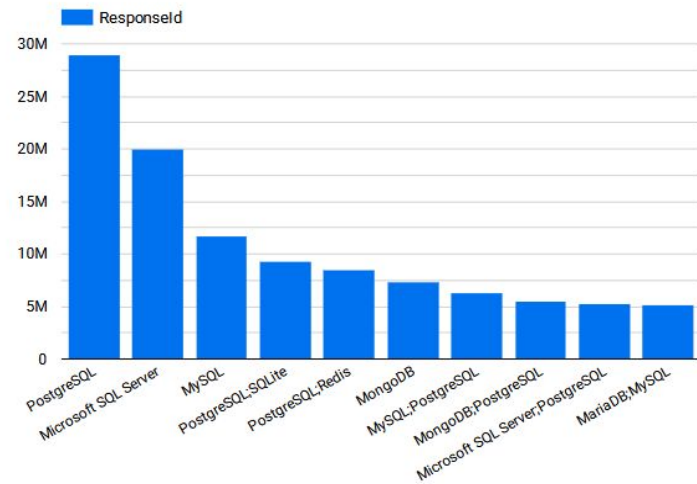
### Top 10 Current Languages



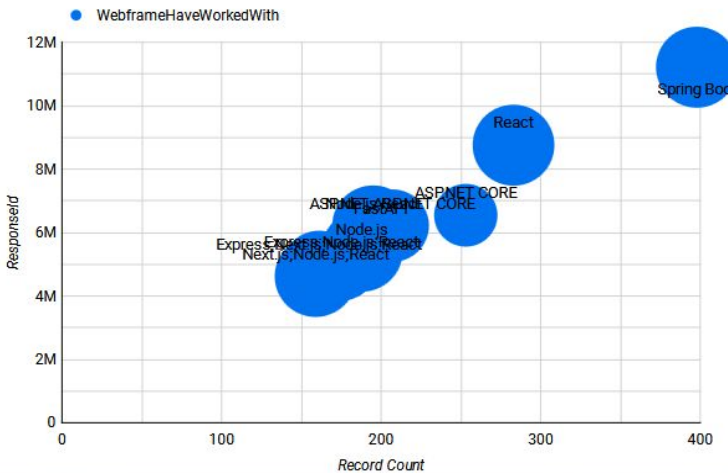
## Current Common Platforms



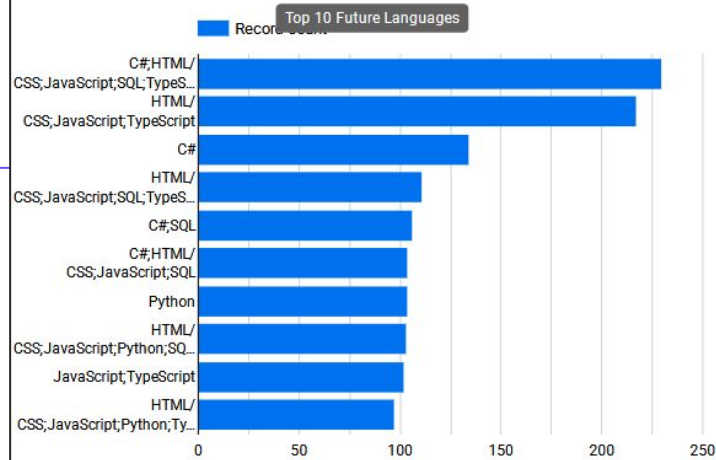
## Top 10 Current DataBases



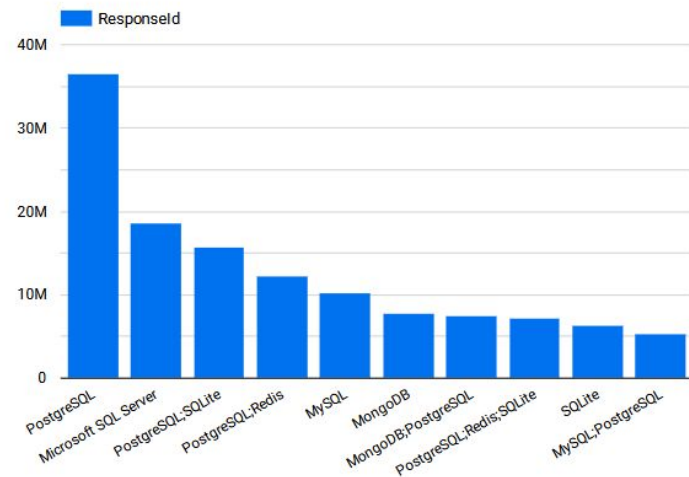
## Top 10 Current Webframes



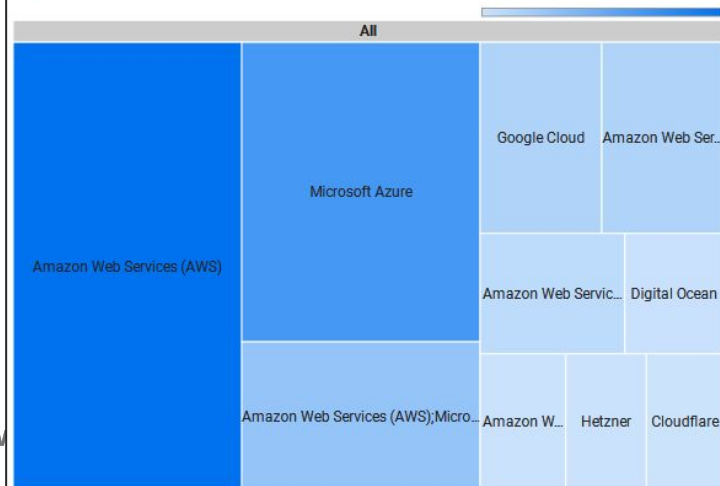
Top 10 Future Languages



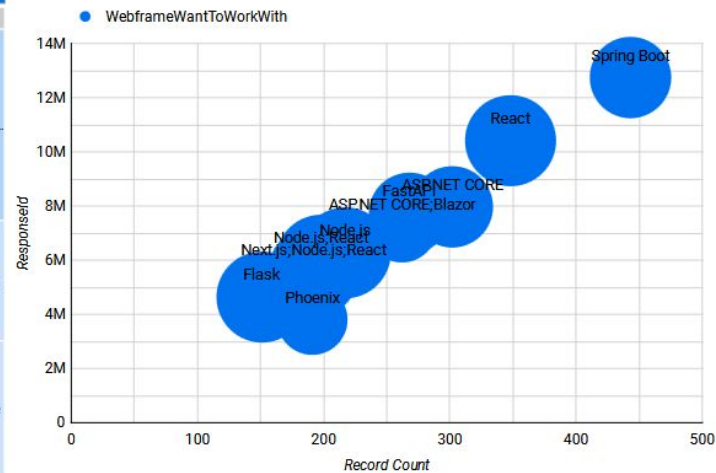
Top 10 Future DataBases



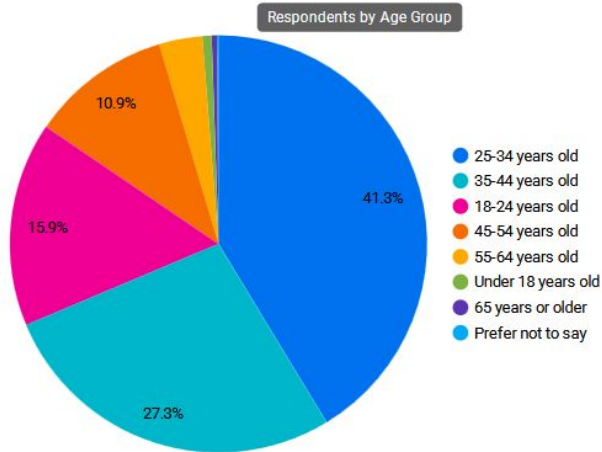
Top 10 Future Platforms



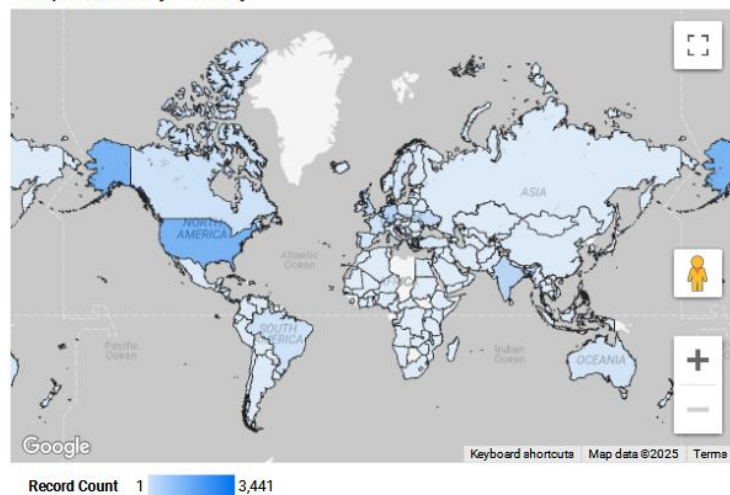
Top 10 Future Webframes



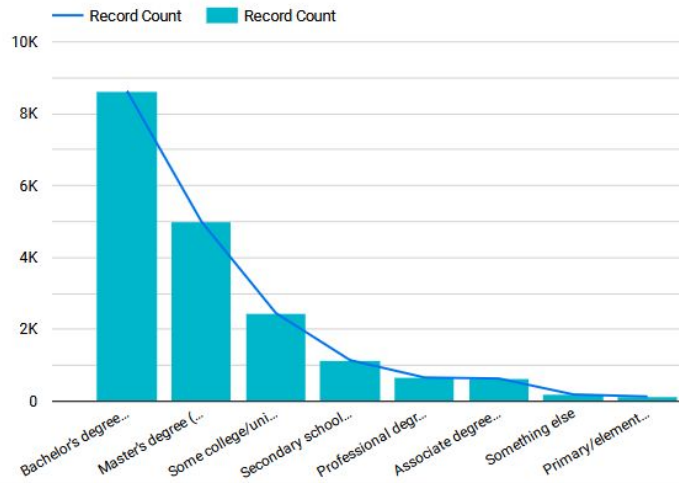
Respondents by Age Group



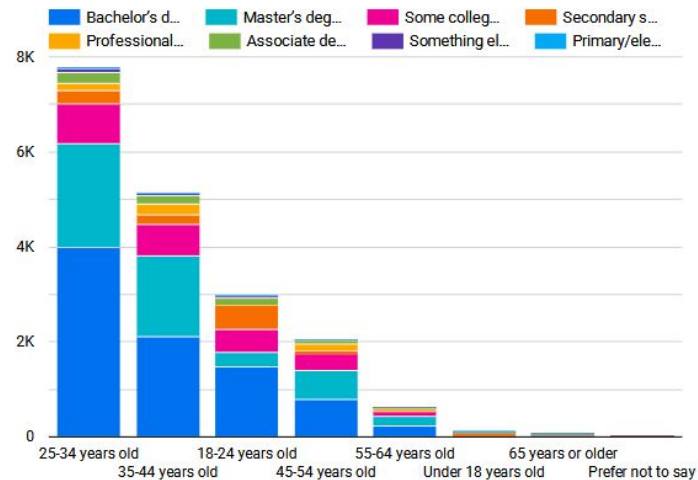
Respondents by Country



Respondents by Level of Education



Respondents by Age Group and Education Level



# DISCUSSION

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# OVERALL FINDINGS & IMPLICATIONS

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## Findings

- Javascript, HTML/CSS, Python, C#, and many other languages are all very popular languages.
- PostgreSQL and Microsoft SQL Server are the dominant Databases.
- Most respondents have a bachelor's or master's degree.
- Many respondents are from the USA.

## Implications

- It is necessary to know many languages to be successful as a developer.
- It is enough to know only a couple of popular Databases.
- Higher education is necessary to succeed as a developer.
- There are many developing opportunities in the USA.

# CONCLUSION

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- The current development ecosystem requires knowledge of many programming languages.
- While there are many Databases, PostgreSQL is the most common.
- Higher education is vital in the industry.
- Much of the job market is in the USA.



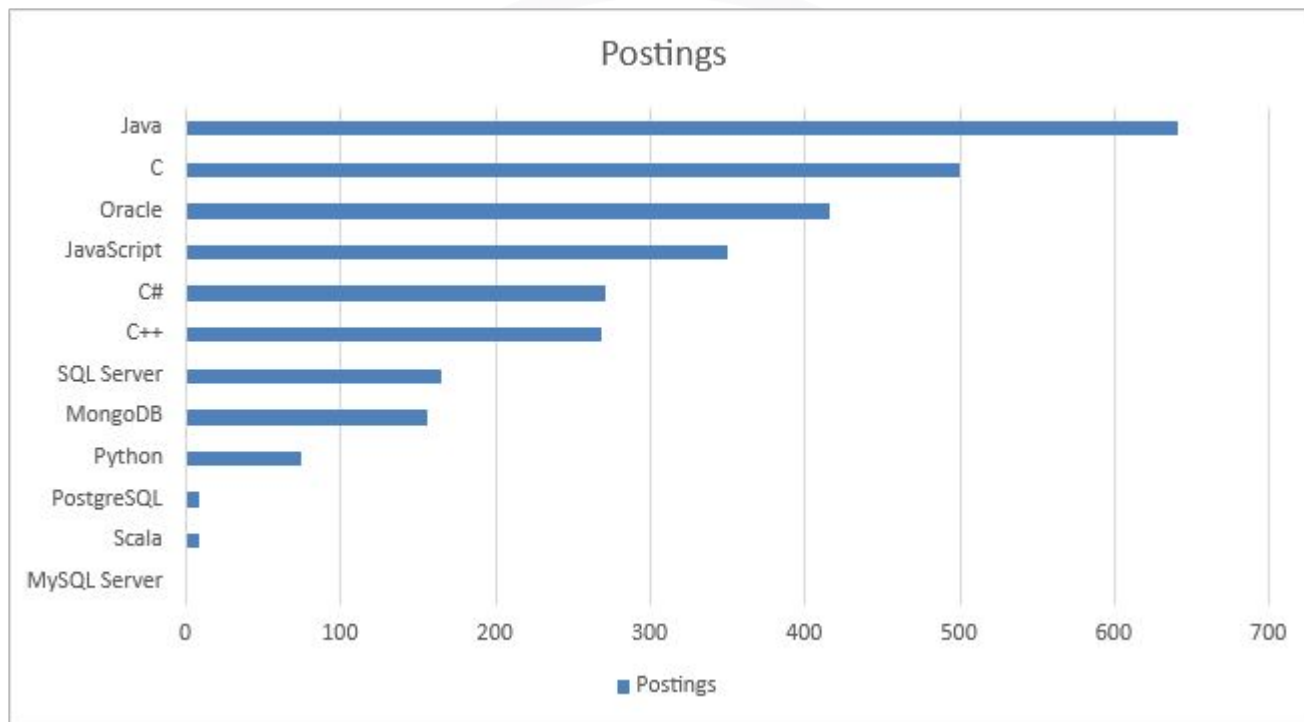
# APPENDIX

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# JOB POSTINGS

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# POPULAR LANGUAGES

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