FINAL PROJECT

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OUTLINE

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

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EXECUTIVE SUMMARY

- JavaScript,HTML5,and Python are widely popular,in demand languages

- SQL is necessary to work with popular DBs like MongoDB and PostgreSQL

- The popularity of web languages and database languages imply heavy demand in these sectors

- Better to know multiple languages than a single language.

- Like anything in technology it is always changing.

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INTRODUCTION

- This presentation will show the trends in various programming languages and databases being used currently

- Students seeking positions after graduation need to be prepared with the languages in demand.

- Using current job postings an salary information, as well as survey results from programmers, we can determine which languages are the future.

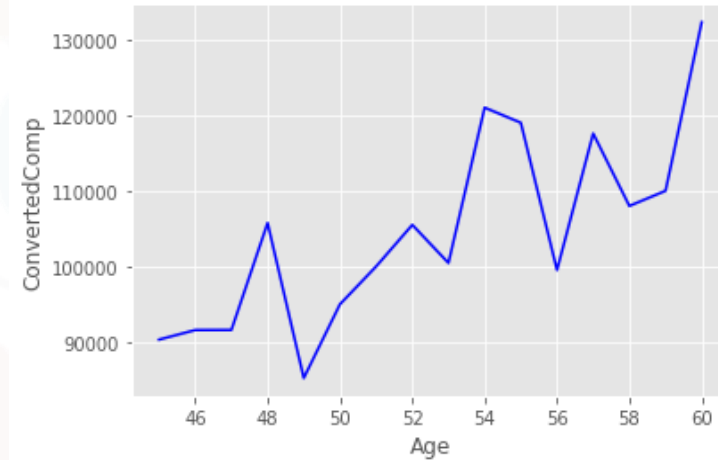- We can extrapolate from the languages what the best sectors to be in are and demand for people that know multiple languages.
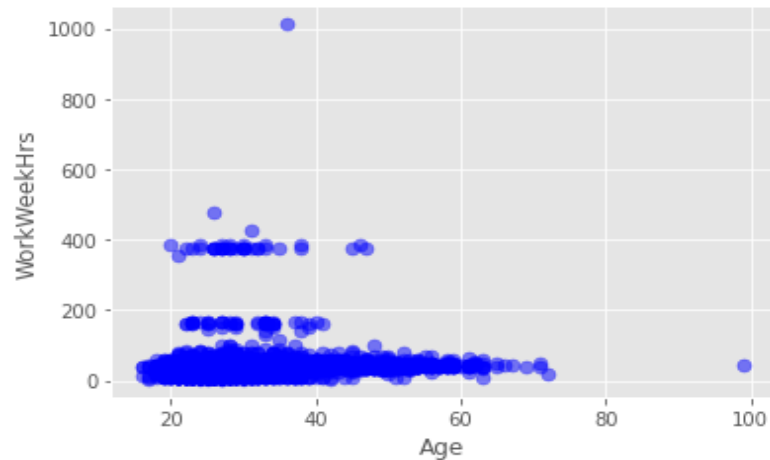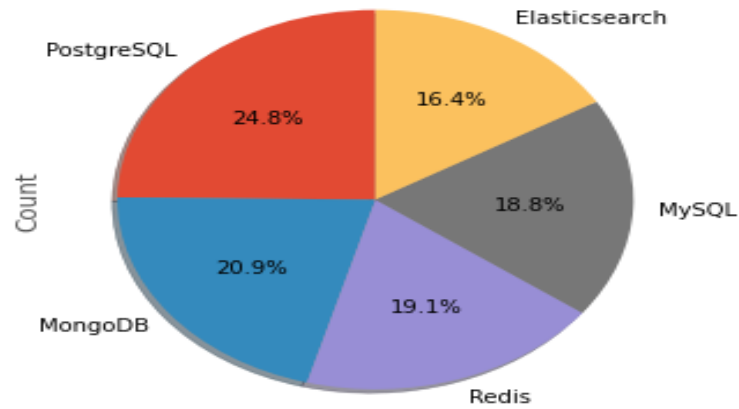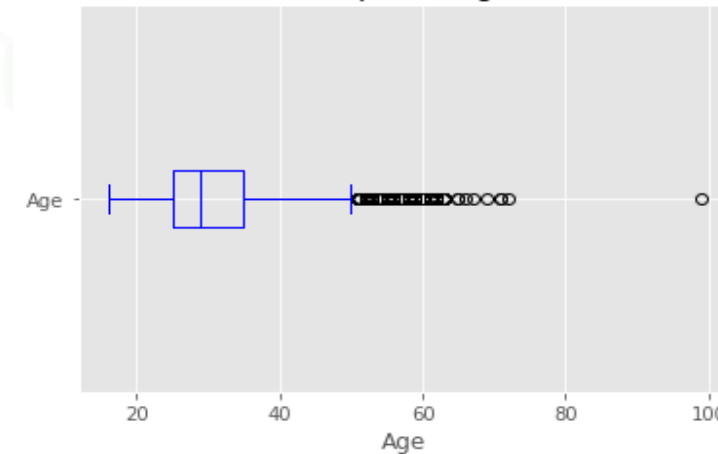
METHODOLOGY

- Data Collection.
- Cleaning Data(dropping outliners, duplicates).
- Presenting cleaned data.
- Data Visualization
  - Chart – Pie, Bar, Box, Line, scatter charts in Results.
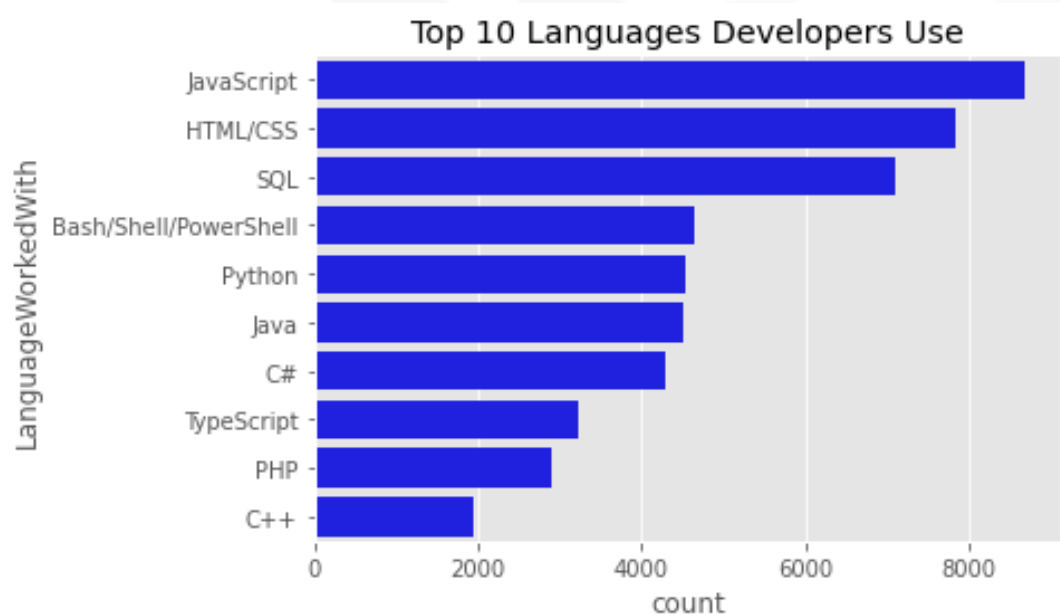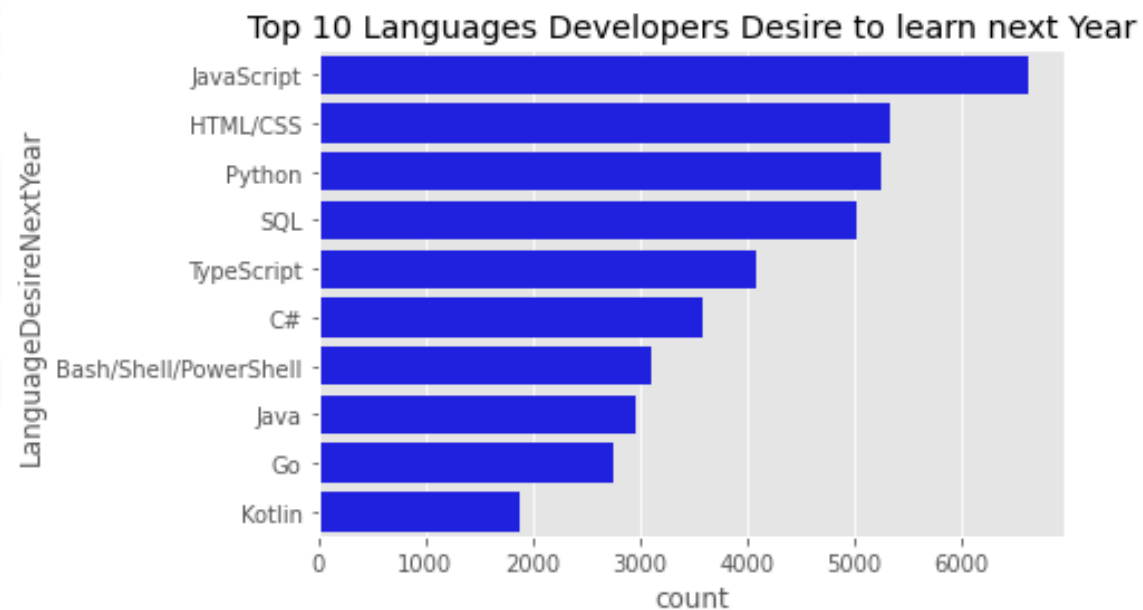 - Dashboard.

RESULTS

PROGRAMMING LANGUAGE TRENDS

Current Year

Next Year

Top 10 Languages Developers Use

Top 10 Languages Developers Desire to learn next Year

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PROGRAMMING LANGUAGE TRENDS – FINDINGS & IMPLICATIONS

Findings

Javascript is leading among all others.

- Python is less demanding as compared to others.
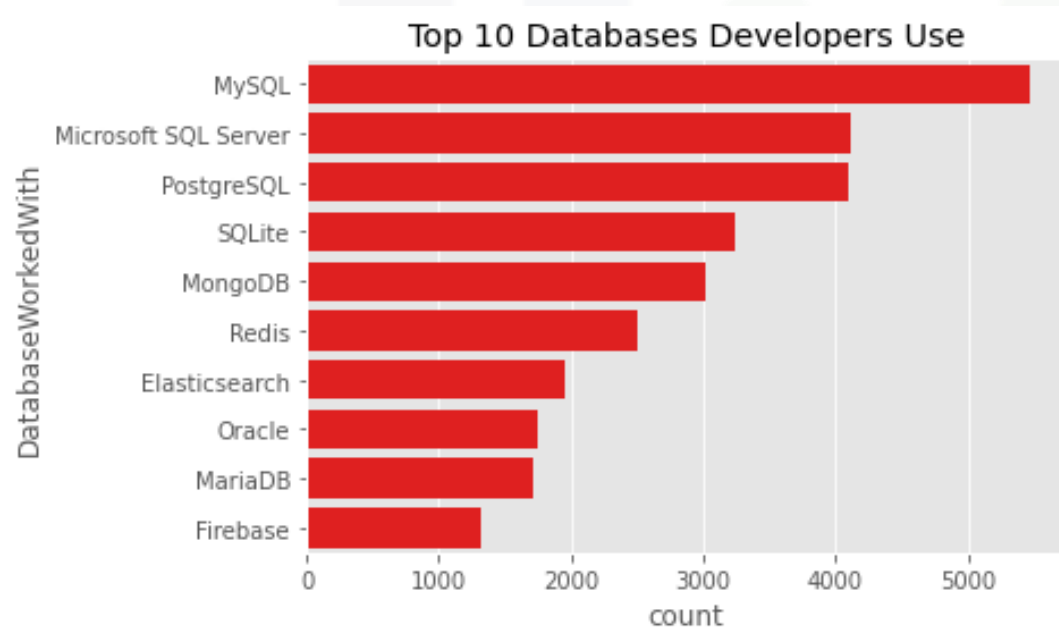- Sql is currently in third.
- Bash/shell/PowerShell drops

Implications

- It should retain this position for a couple of years.
- Python is increasing in demanding and could overtake Javascript as the most used.
- SQl over numbers will increase but others will grown more meaning it will drop down the list
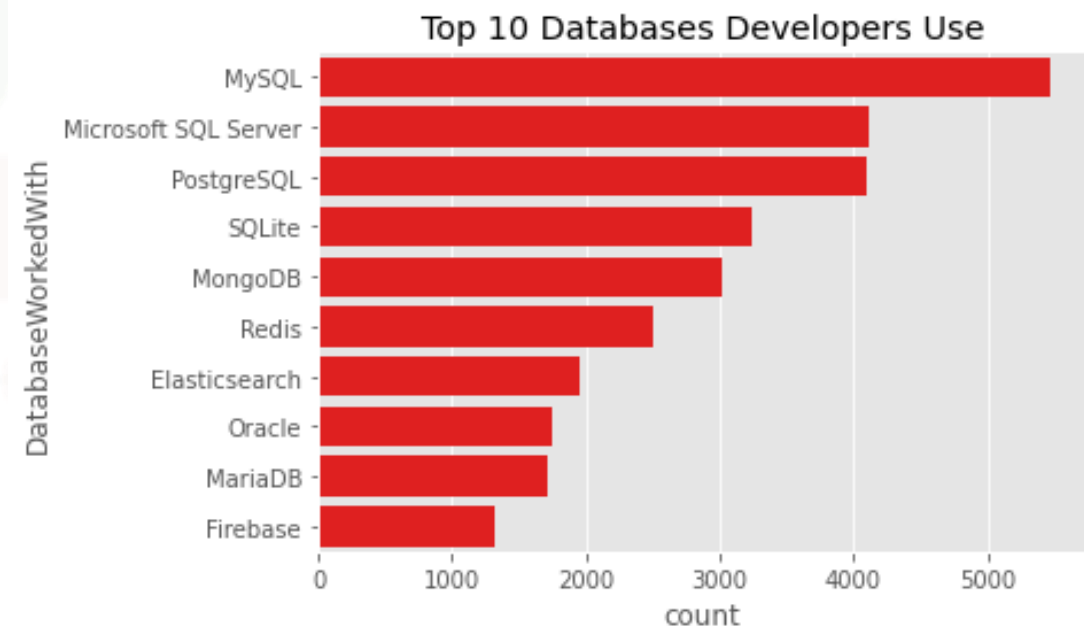- Bash/Shell/PowerShell decreases in use.

DATABASE TRENDS

Current year

Next Year

DATABASE TRENDS – FINDINGS & IMPLICATIONS

Findings

- MYSQL is currently the most used.
- Microsoft SQL Server in 2º.
- MongDB is currently the least used database
- PosgresSQL in 3º.

Implications

- MYSQL will declaine in the upcoming years.
- PostGres will see an increase in demand resulting it becoming the most used.
- MongDB will increase in demand and will 2º most used db
- SQL SERVER falls out if the most used databases.

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DASHBOARD

https://eu-gb.dataplatform.cloud.ibm.com/dashboards/918942ce-e900-4cea-8f34-2a990649db54/view/4620fc1560af2dc84edcbde4079a28532b352455e7bbd20bd4807b495a337997f0681a94c87c1e088c190660a7ef4051c1

DASHBOARD TAB 1
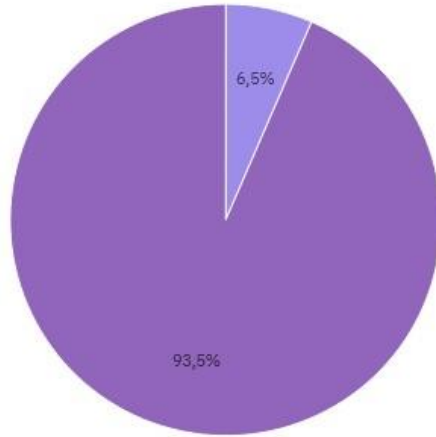
DASHBOARD TAB 2

DASHBOARD TAB 3

Respondent Count by Age
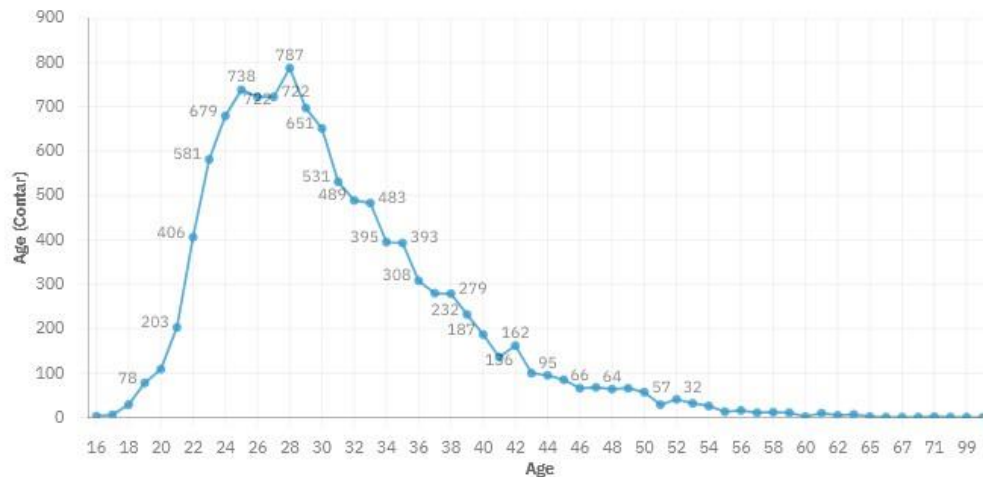
Respondent Count by Gender, classified by Formal Education Level

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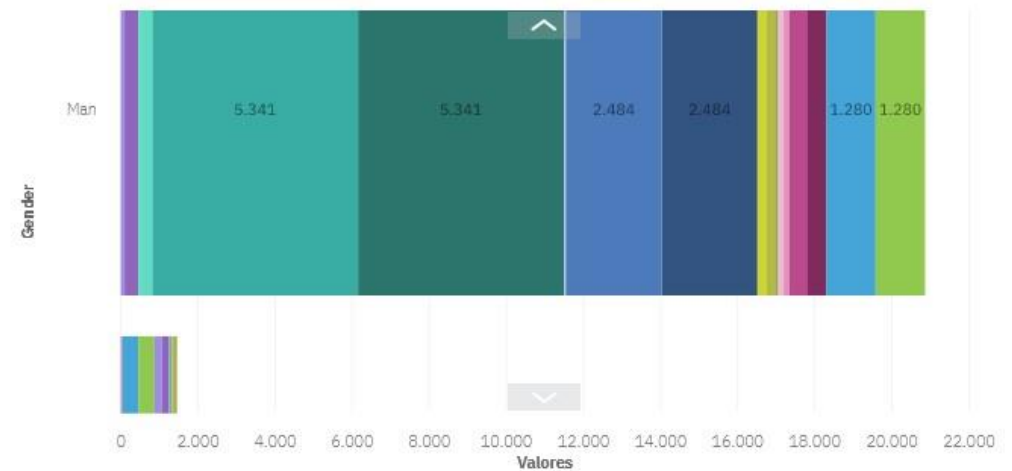
DISCUSSION

- Python,HTML 5, and Javascript are perennially popular, widely used languages with broad support.
- Niche languages, like Swift, are not present in large numbers
- While increasing in popularity among programmers, MongDB has relatively few job openings.

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OVERALL FINDINGS & IMPLICATIONS

Findings

- Javascript is the most used.
- Html and css are in demand.
- Python is currently one of least used programming language.
- Typescript is the least popular.

Implications

- Javascript will still be the most used but the different between them will decrease.
- Html and css becoming one of the most used languages
- Python will increase in demand
- Typescript stop being and drop of the top 5

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CONCLUSION

- It is best to learn multiple languages in order to secure a position.
- Python and JavaScript are highly sought after – #2 and #5 in Github job postings.
- SQL is important in dealing with multiple databases – MongoDB and PostgreSQl especially.
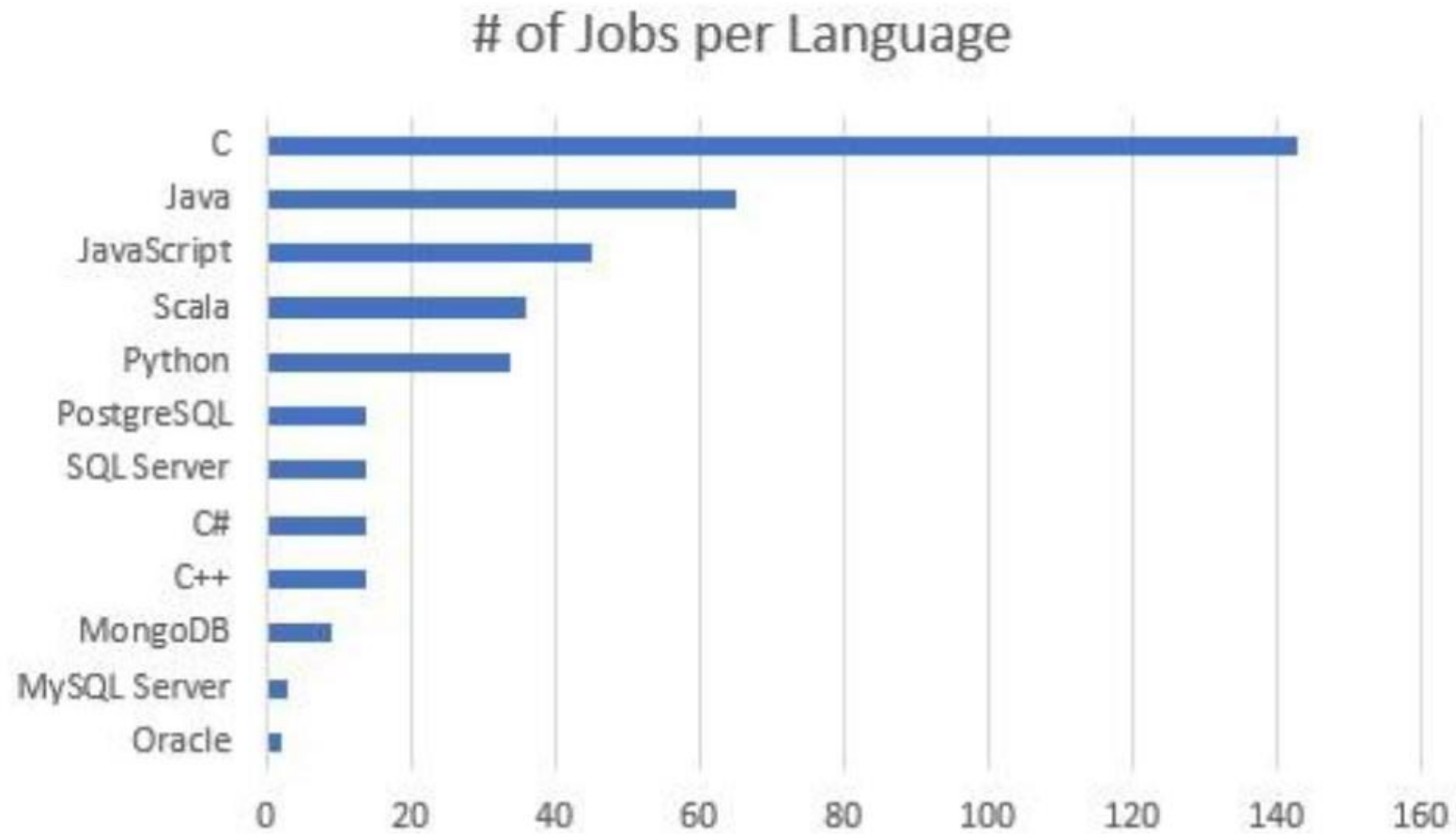- Web programming and Database programming are the sectors seeing increases.

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APPENDIX

- Include any relevant additional charts, or tables that you may have created during the analysis phase.

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GITHUB JOB POSTINGS

# of Jobs per Language

POPULAR LANGUAGES

Average Annual Salary