



Technologies Trends

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May 23, 2021

OUTLINE



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EXECUTIVE SUMMARY



- Technologies trending up:
 - Python
 - TypeScript
 - Redis
 - Elasticsearch
 - AWS
- Technologies trending down:
 - Bash/Shell/PowerShell
 - Microsoft SQL server
 - SQLite

INTRODUCTION



- analyzes data to help identify future skill requirements is the focus of this report
- Data was collected and analyzed to identify trends for this year's report on emerging skills.

METHODOLOGY



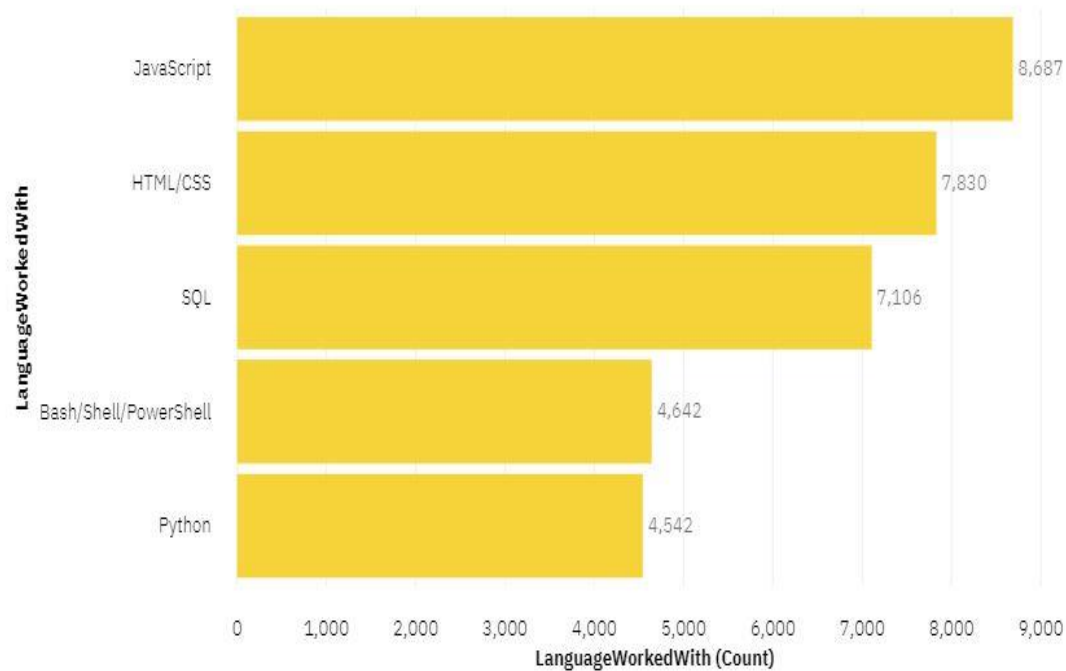
- Data was collected by job postings, training portals, surveys “scraping internet web sites and accessing APIs to collect data”.
- Data were analyzed by:
 - What are the top programming languages in demand?
 - What are the top database skills in demand?
 - What are the popular IDEs?
- Wrangling techniques were used to prepper the data.
- IBM Cognos Analytics was used to create dashboard.

RESULTS

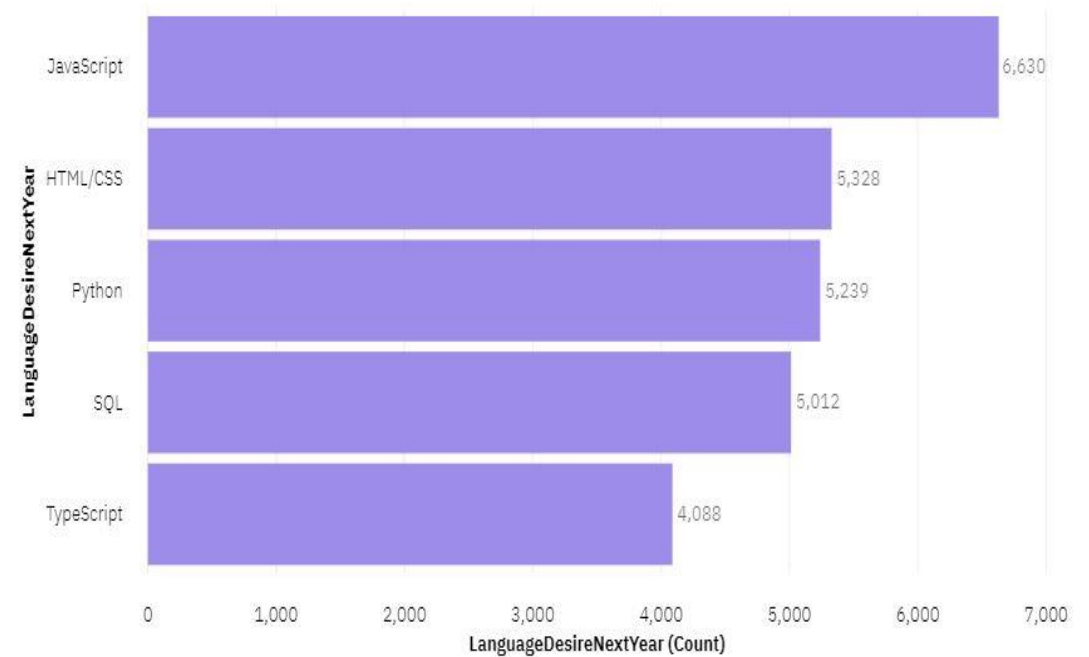


PROGRAMMING LANGUAGE TRENDS

Top 5 Current Programming



Top 5 Future Programming



PROGRAMMING LANGUAGE TRENDS - FINDINGS & IMPLICATIONS

Findings

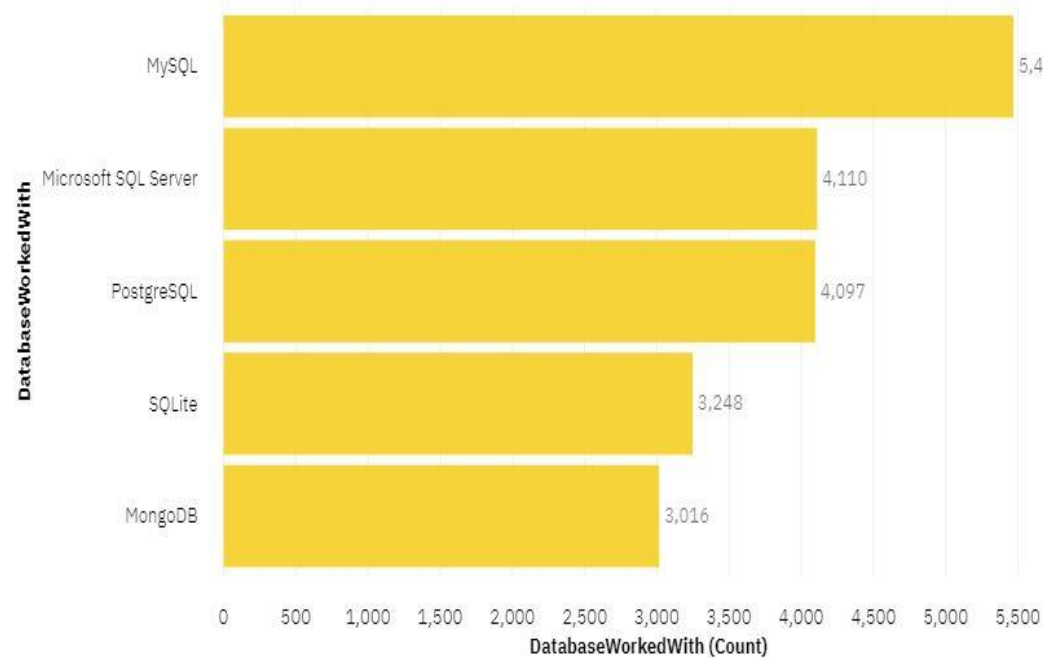
- JavaScript and HTML/CSS was a leading language and predicted to still in the future.
- Bash/Shell/PowerShell is a current trend but will not be in the future.
- Python and TypeScript are trending in the future.

Implications

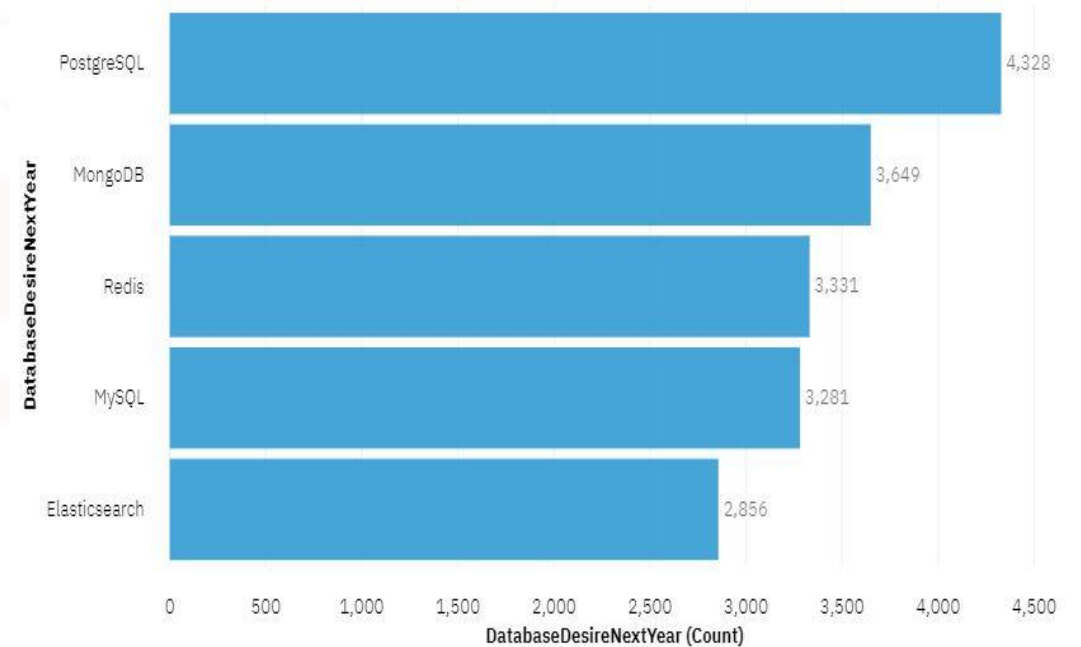
- Future skill requirements for JavaScript and HTML/CSS will remain the same.
- There will be no skill requirements in the for Bash/Shell/PowerShell.
- Future skill requirements for Python and TypeScript will increase .

DATABASE TRENDS

Top 5 Current Database



Top 5 Future Database



DATABASE TRENDS - FINDINGS & IMPLICATIONS

Findings

- Although Microsoft SQL server and SQLite is currently at top 5 it is going out of trend
- Redis and Elasticsearch are on an up-trend

Implications

- There will be no skill requirements in the for Microsoft SQL server and SQLite.
- Future skill requirements for Redis and Elasticsearch will increase .

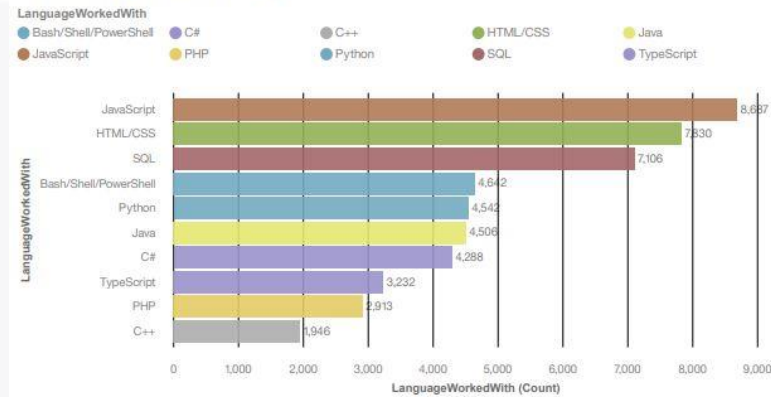
DASHBOARD



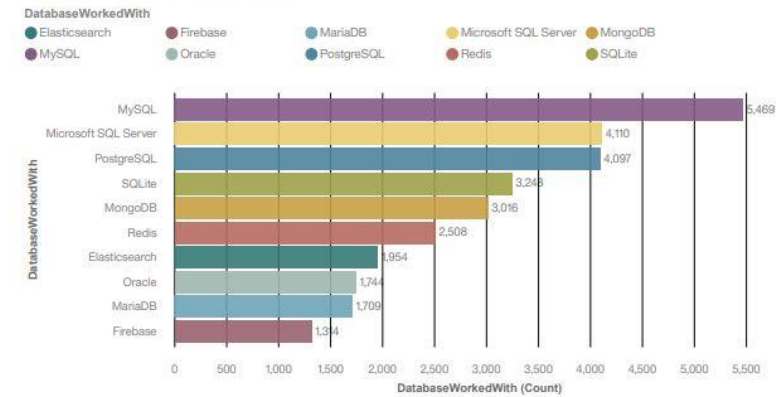
[IBM Cloud DASHBORD](#)

DASHBOARD TAB 1

Top 10 LanguageWorkedWith



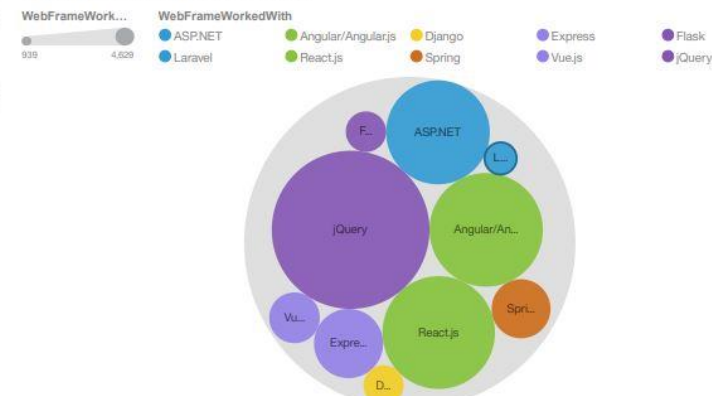
Top 10 DatabaseWorkedWith



PlatformWorkedWith

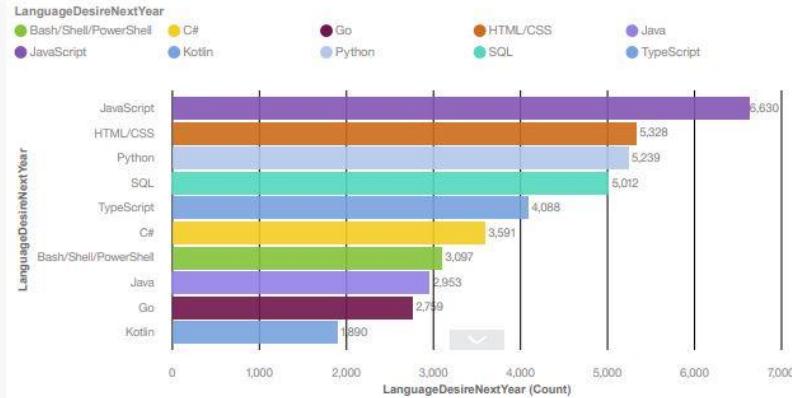


Top 10 WebFrameWorkedWith

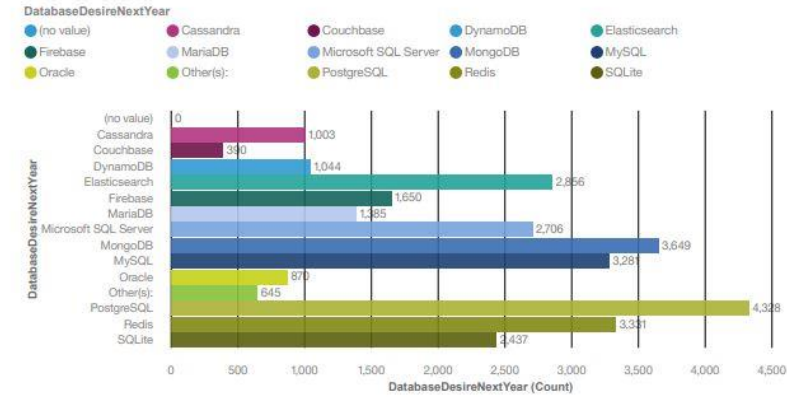


DASHBOARD TAB 2

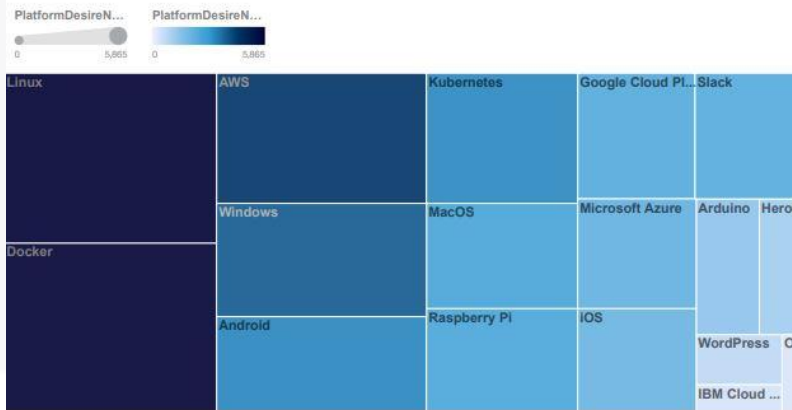
Top 10 LanguageDesireNextYear



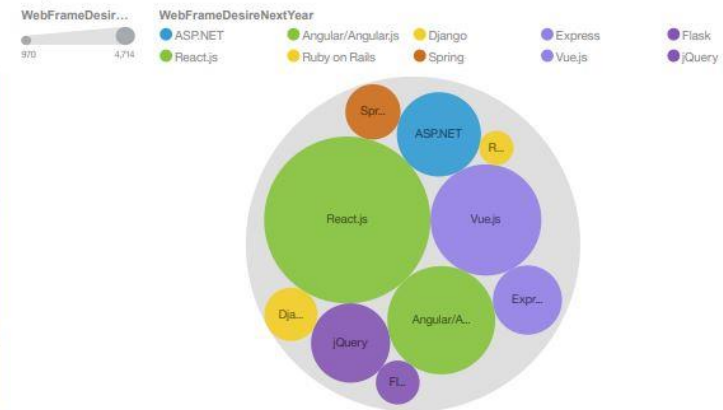
Top 10 DatabaseDesireNextYear



PlatformDesireNextYear

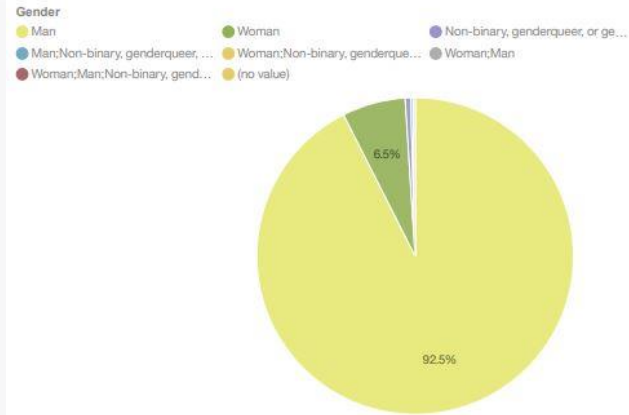


Top 10 WebFrameDesireNextYear

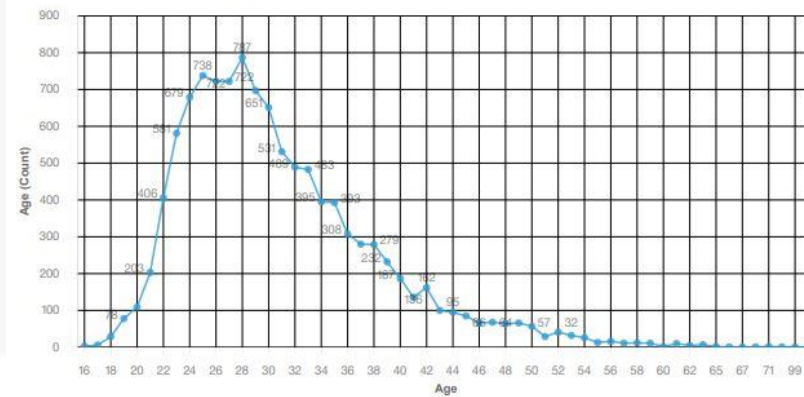


DASHBOARD TAB 3

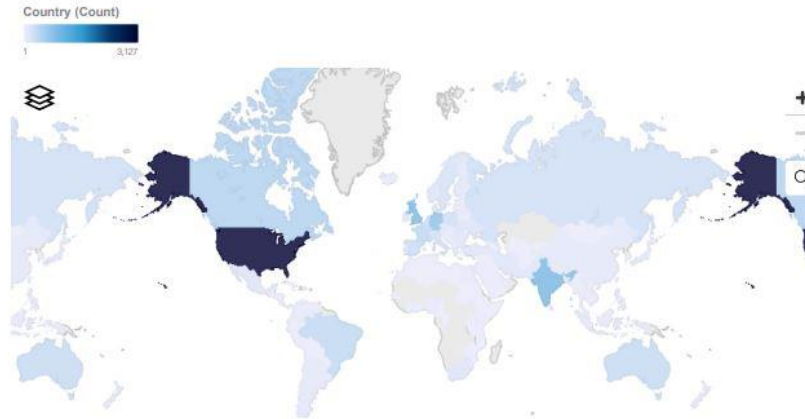
Respondent classified by Gender



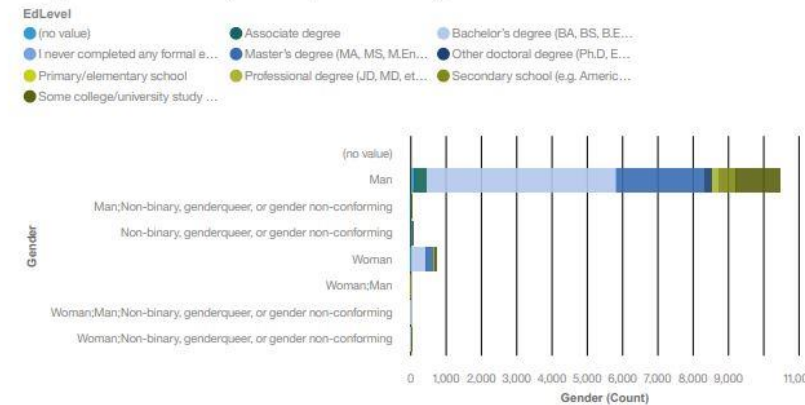
Respondent Count by Age



Enter your title here



Respondent Count by Gender, classified by Formal Education Level



DISCUSSION

- More data should be collected to analyze what is determining salary compensation for programmers

OVERALL FINDINGS & IMPLICATIONS

Findings

- Windows Linux and Docker are the current platforms. However, AWS is trending

Implications

- Skill requirement for AWS will increase in the future

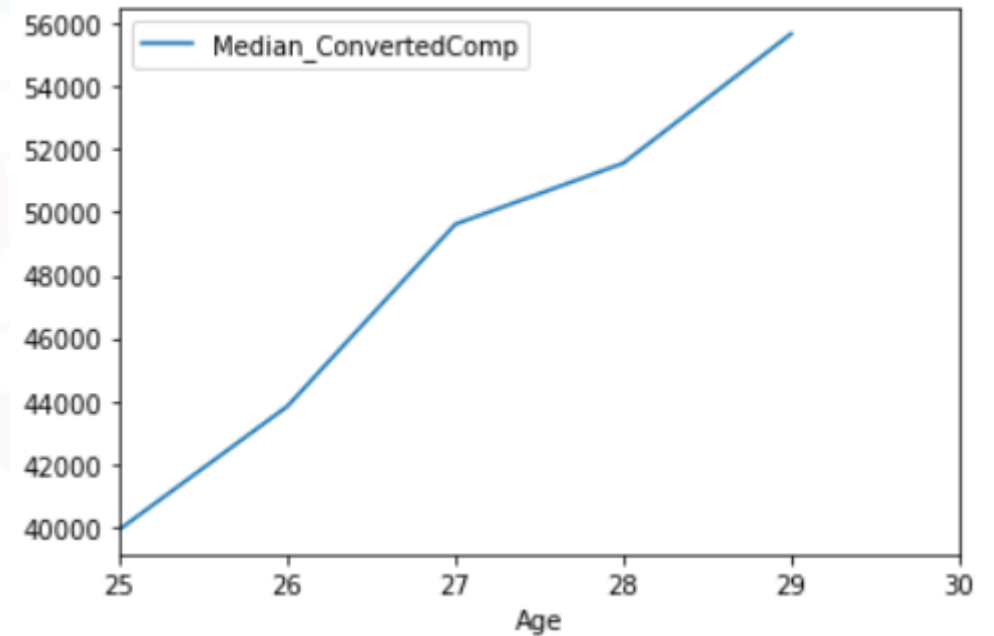
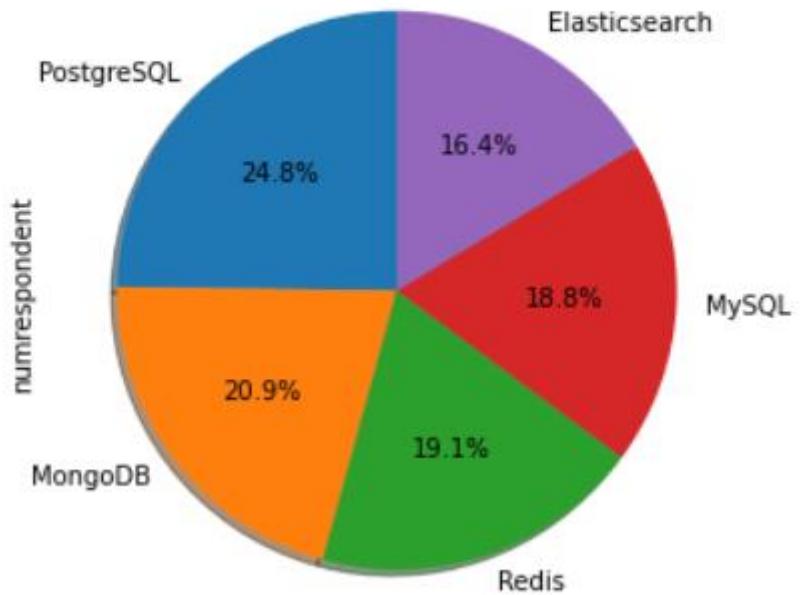
CONCLUSION



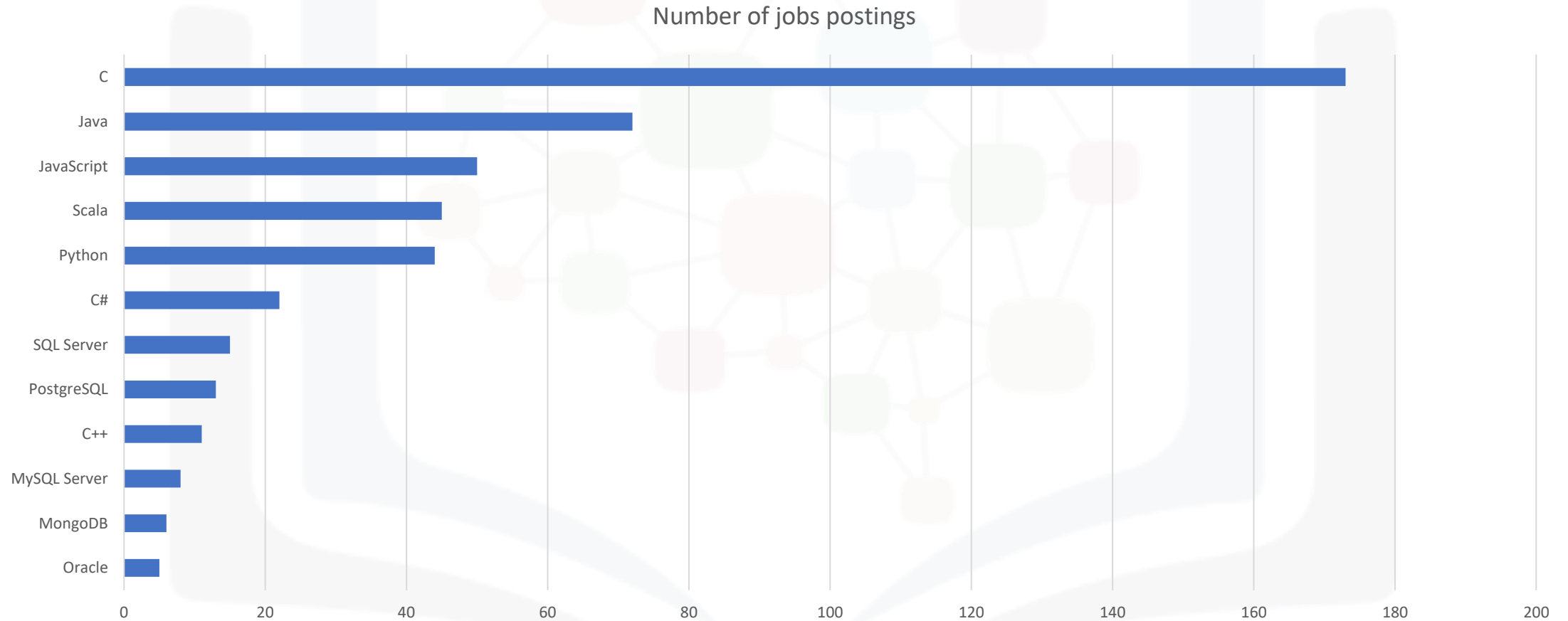
- Python and TypeScript are trending in the future. Future skill requirements for Python and TypeScript will increase .
- Microsoft SQL server and SQLite is currently at top 5 it is going out of trend
- Windows Linux and Docker are the current platforms. However, AWS is trending
- There will be no skill requirements in the for Bash/Shell/PowerShell.

APPENDIX

top 5 databases that respondents wish to learn next year



GITHUB JOB POSTINGS



POPULAR LANGUAGES

