



Technology Survey Results Analysis

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EXECUTIVE SUMMARY

Objective: To Analyze the 2022 technology survey results conducted by StackOverFlow



- Analysis of this year's result:
 - Top programming languages used
 - Top databases used
- Analysis of the results for respondent's next year learning plans:
 - Top programming languages
 - Top databases
- Analysis of the respondent's demographics
 - Respondent Gender, Age, Country and Education Level

INTRODUCTION



This report is prepared various stakeholders, including company executive, hiring managers, training providers and technology enthusiasts in general.

In this report, they will be able to decipher what are the top technology currently being used as well as emerging new technologies. They will be able glean into what's trending for year and prepare accordingly.

METHODOLOGY



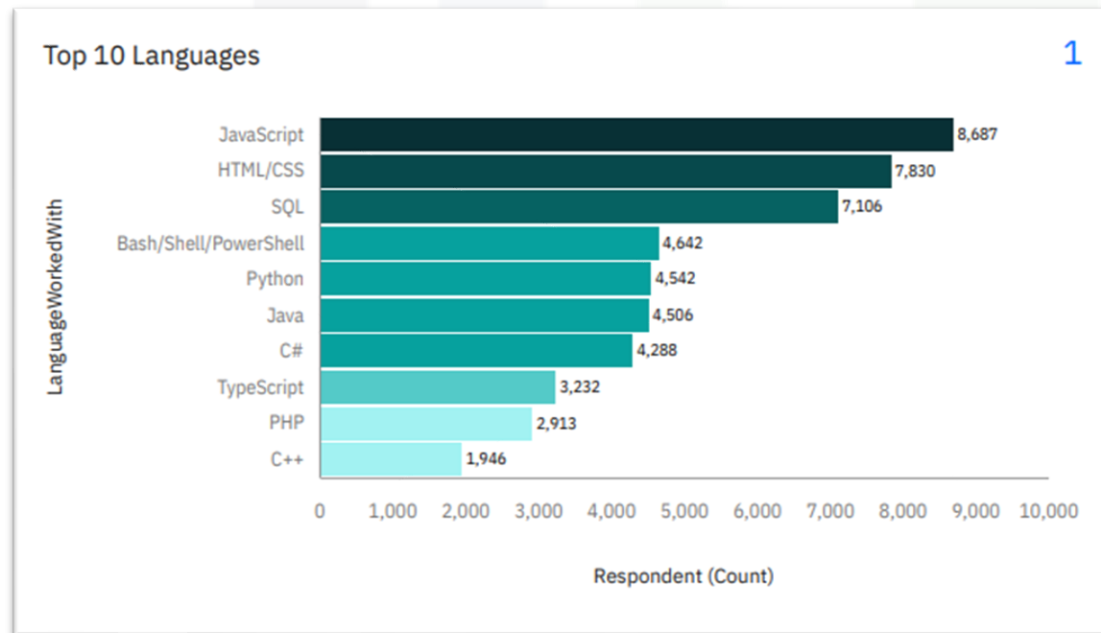
- Exploratory method used to analyze the dataset which was obtained from the Stack Overflow website, jobs data from the internet using an API.
- Data mining techniques, such web scraping, APIs and as well as CSV files, data wranglings and several visualizations were used to collect , clean, transform and present the data
- Null values and duplicate responses were excluded from the data used in this report.

RESULTS

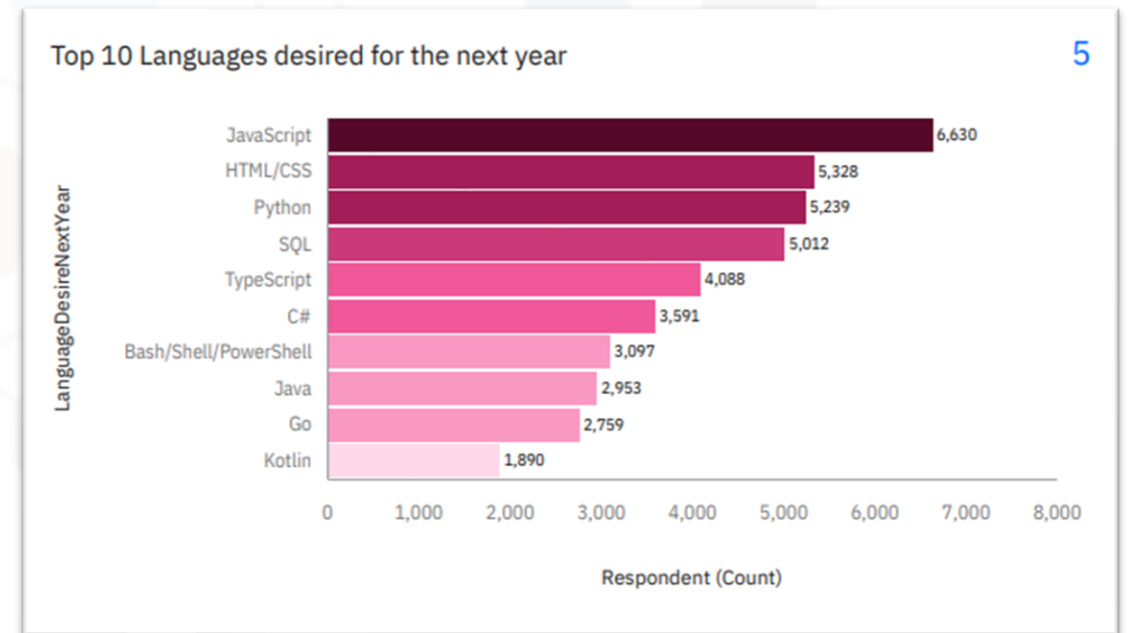
- JavaScript and HTML/CSS are still the top languages being used this year and will be Top language learned next year.
- SQL is the second most used language this year. However, python is the second most language respondent will be learning next year.
- MySQL and SQL server were the top database for this year. However, PostgreSQL and MongoDB are the two top databases that respondents wish to learn next year.
- Men made up over 90% of the respondents, and women came up under 8%.

PROGRAMMING LANGUAGE TRENDS

Current Year



Next Year



PROGRAMMING LANGUAGE TRENDS - FINDINGS & IMPLICATIONS

Findings

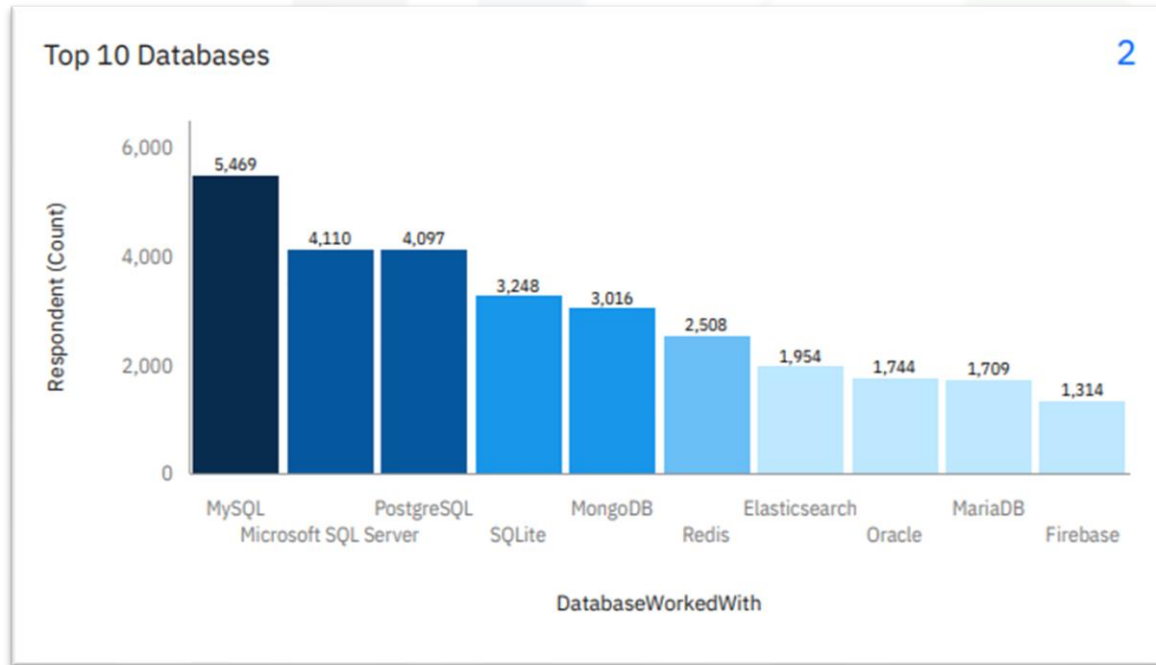
- JavaScript and html/CSS are the leading languages used this year
- JavaScript and html/CSS are also the leading languages that respondent desires to learn next year
- SQL was the third most language used this year. However, python is the third preference for next year

Implications

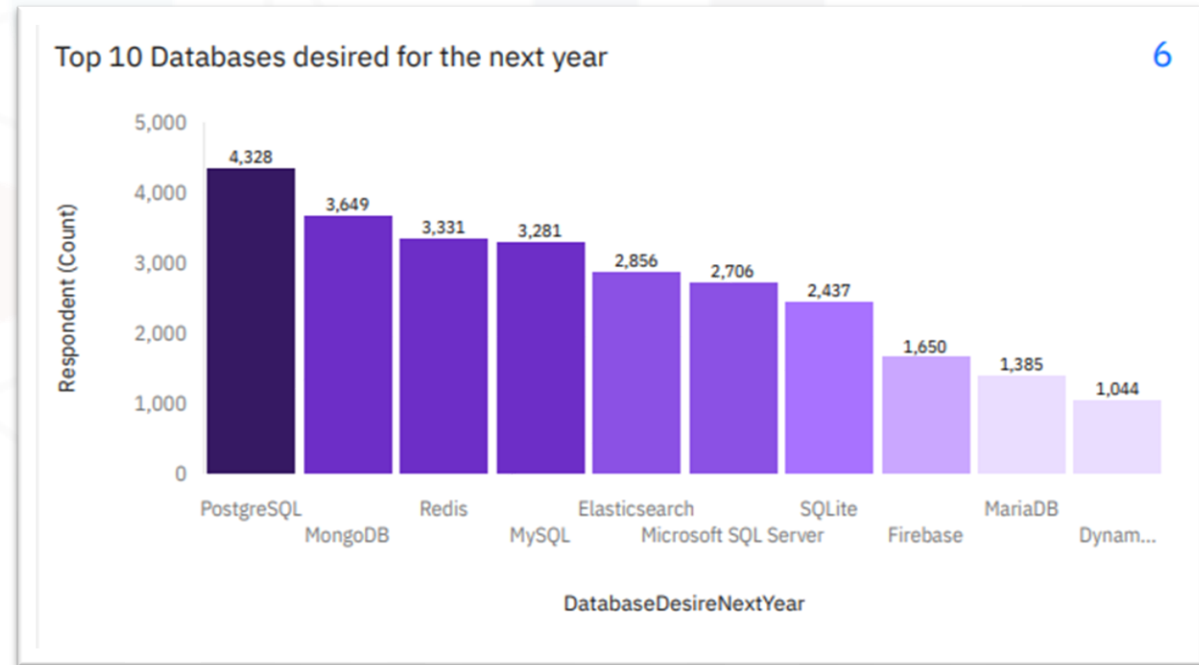
- Demand for JavaScript / html training needs remain strong
- Demand for python programming jobs is trending up. So, is the need to training courses.

DATABASE TRENDS

Current Year



Next Year



DATABASE TRENDS - FINDINGS & IMPLICATIONS

Findings

- MySQL is the top database used this year
- PostgreSQL is the top DB to be learned next year
- SQL Server is second most used DB this year, but sixth on the least of DB to be learned next year.

Implications

- Big increase in demand for PostgreSQL and MongoDB learning for next year.
- MySQL and SQL Server skills not as in demand from next year.

DASHBOARD

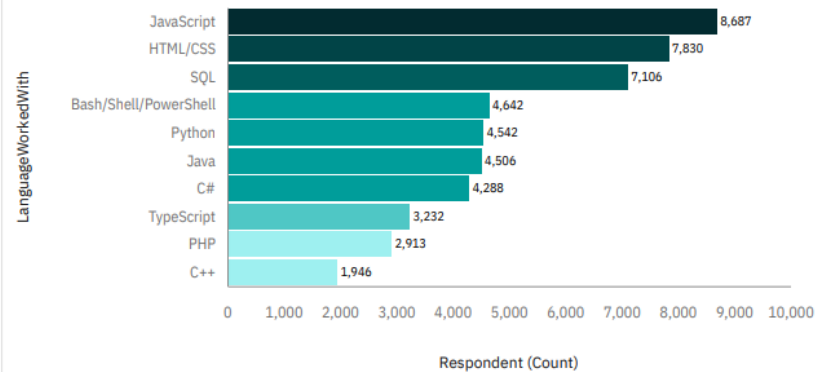


<https://github.com/gcris07/launchpad/blob/be2b3d8099ec2b5d4d4ab9c716299df7bad74295/Technology%20Survey%20Results%20Dashboard.pdf>

DASHBOARD TAB 1

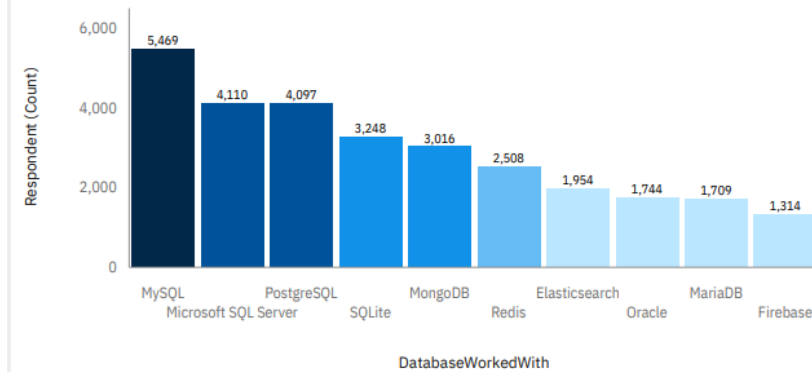
Current Technology Usage

Top 10 Languages



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Top 10 Databases



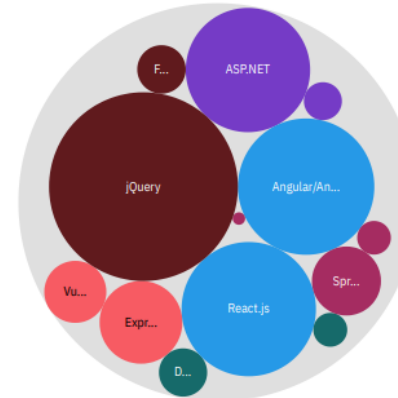
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Platforms



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Top 10 Webframes

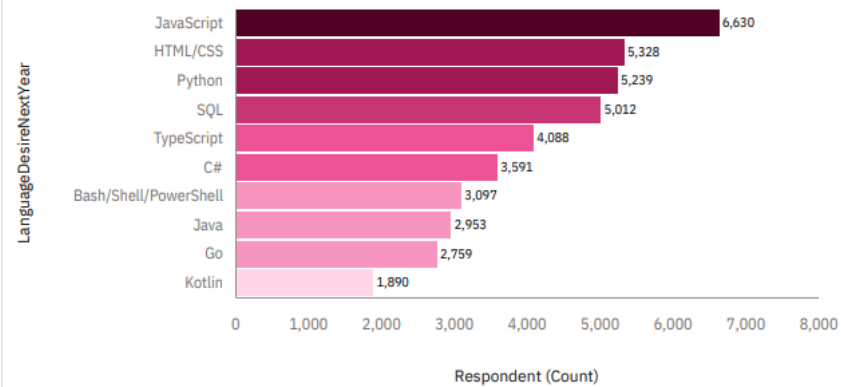


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DASHBOARD TAB 2

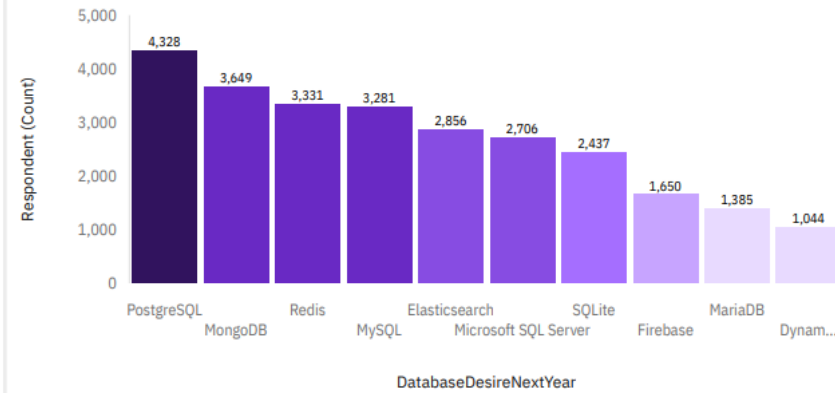
Future Technology Trend

Top 10 Languages desired for the next year



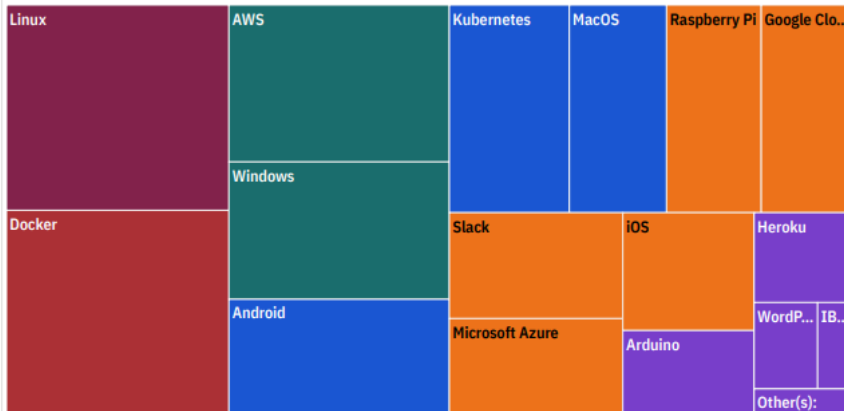
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Top 10 Databases desired for the next year



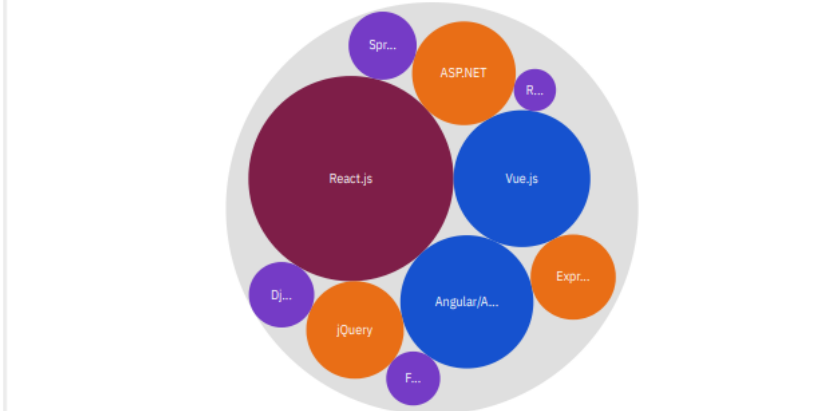
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Desired platforms for the next year



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Top 10 WebFrames desired for next year

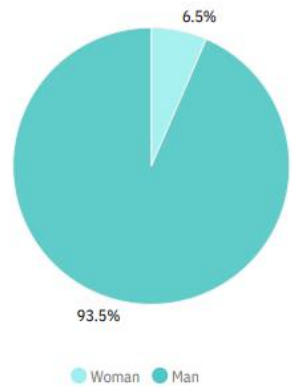


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DASHBOARD TAB 3

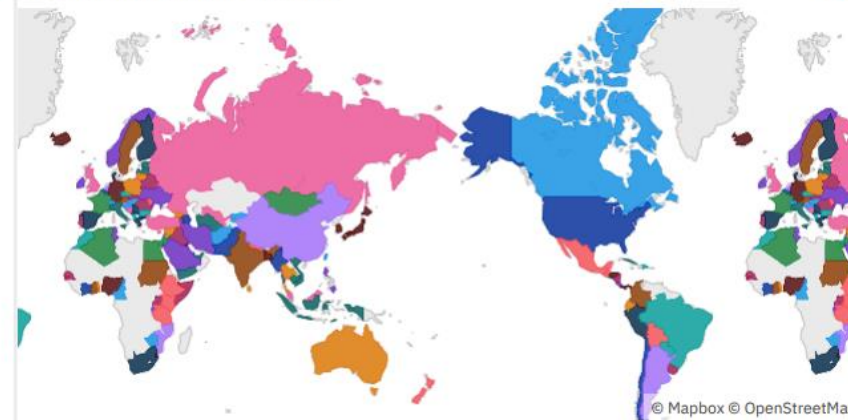
Demographics

Respondent classified by Gender.



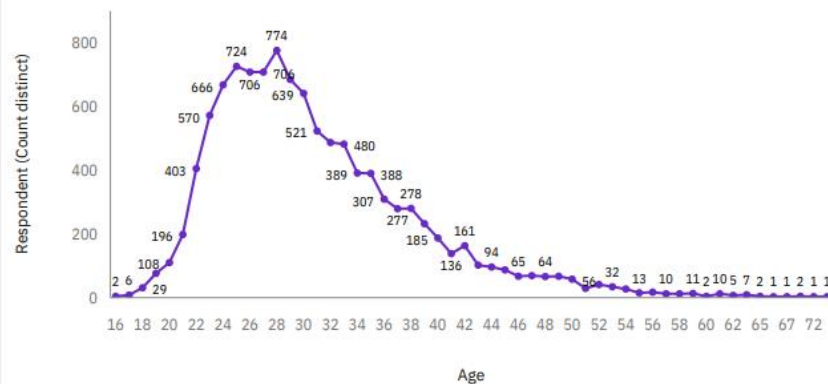
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Respondent Count for Countries



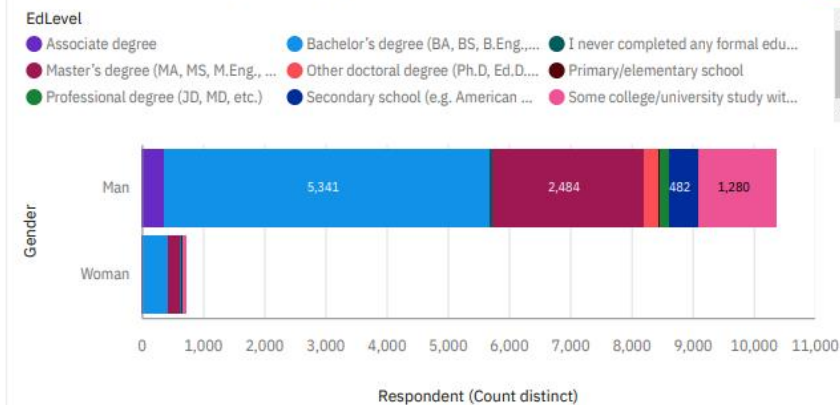
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Respondent Count by Age



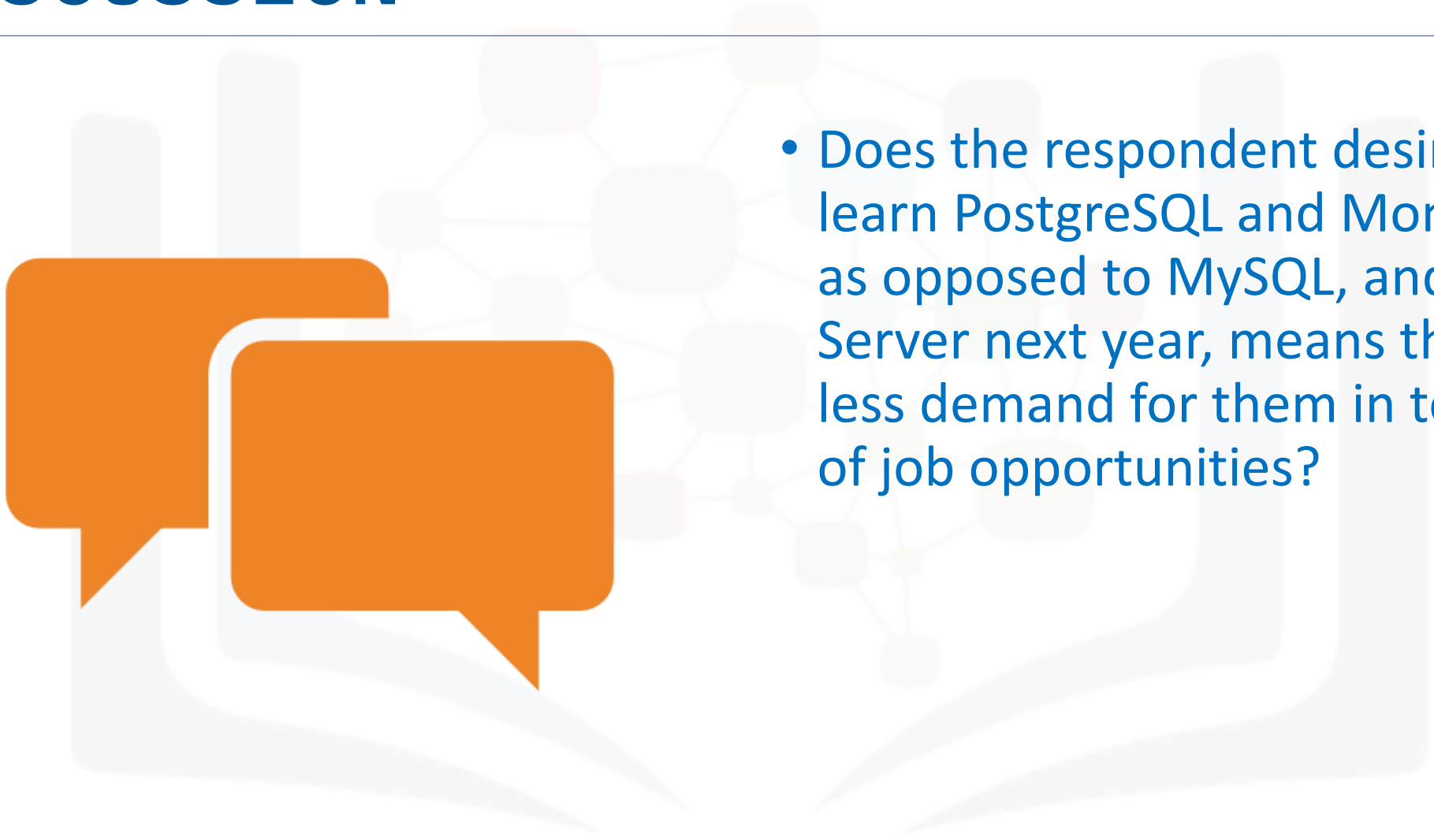
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Respondent by Gender colored by EdLevel



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DISCUSSION

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- Does the respondent desire to learn PostgreSQL and MongoDB as opposed to MySQL, and SQL Server next year, means there is less demand for them in terms of job opportunities?

OVERALL FINDINGS & IMPLICATIONS

Findings

- JavaScript and Html/CSS skills demand remain strong
- Python programming skills demands is also increasing

Implications

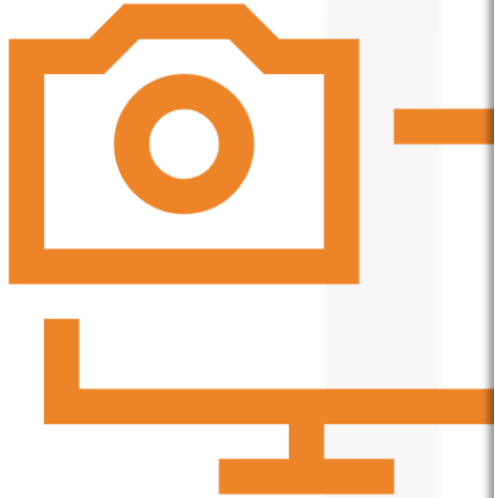
- Companies are shifting toward newer technology such as python, MongoDB, etc
- Java, C, C++ programmers needs to upgrade their skill to meet demand.

CONCLUSION

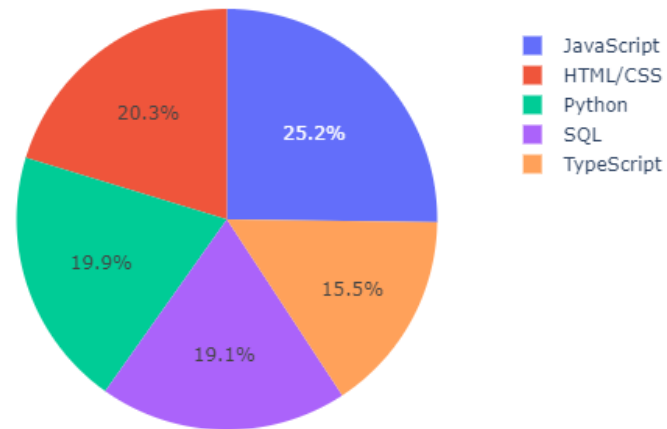


- Based on next year desire technology to learn, emphasize a trends toward newer technologies.
- Man greatly over index woman in the field. Additional opportunities needs to make available to them.
- To stay competitive, companies needs to take steps to insure the employees are keep up with the trends highlighted in this analysis.

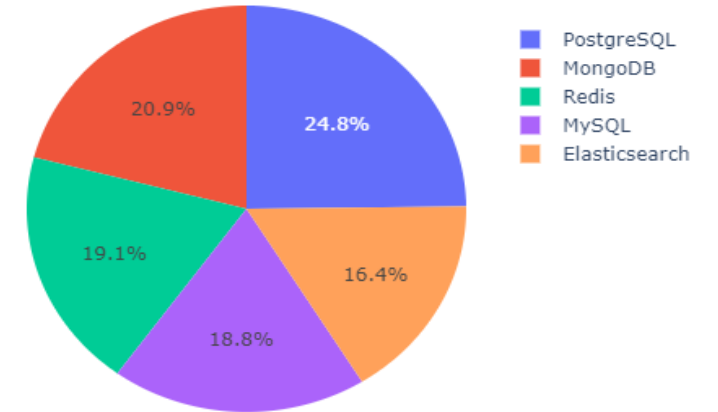
APPENDIX



Top 5 Language for Next Year

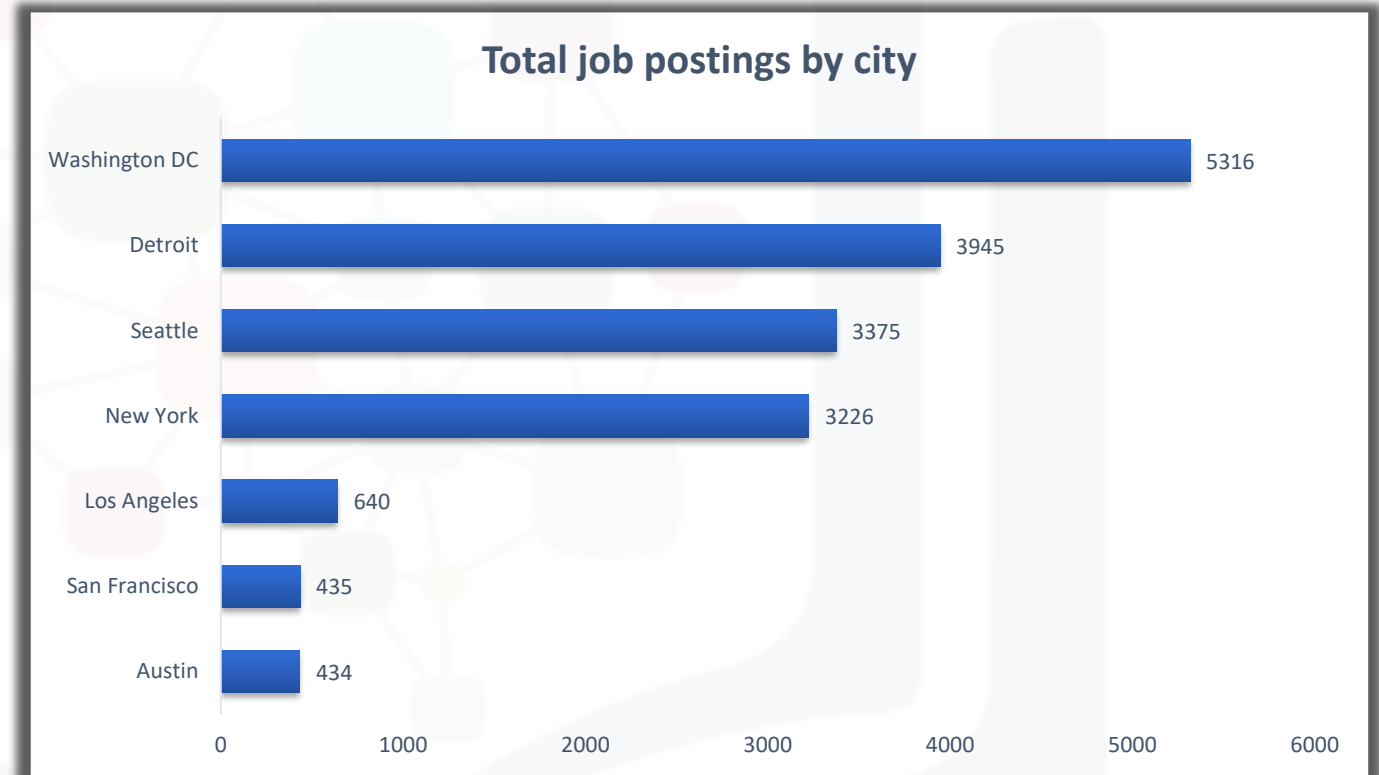


Top 5 databases for Next Year



JOB POSTINGS

Washington DC had the most job posting



POPULAR LANGUAGES

Swift has the most job posting followed by python.

