The Stack Overflow Developer Survey 2019

Data Analysis Report Presentation

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19.12.2020

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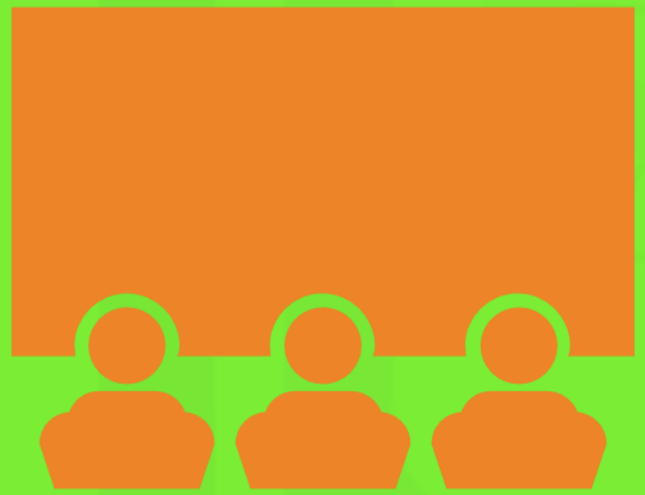
OUTLINE



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

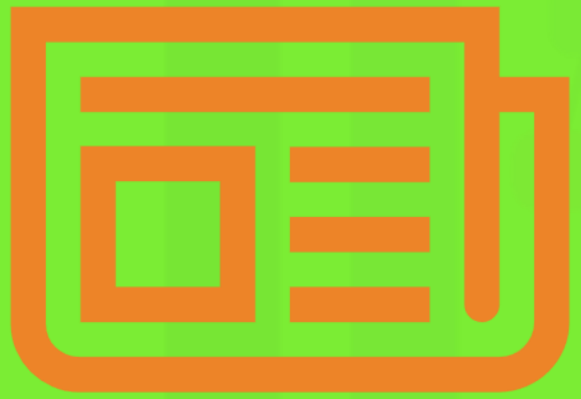
EXECUTIVE SUMMARY

This presentation provides an overview of the collected data including trends of programing languages, databases and web frames.

You will find the current and future trends.

Additionally, gender, age, country and education level comparisons will be mentioned.

METHODOLOGY



For this report

- Data collected and analyzed on Current vs. Future Technology Usage on
  - Databases
  - Programming Languages
  - Frames
- Data collected and analyzed on
  - Gender
  - Age
  - Educational Level

RESULTS?

- Trend Analysis
- Horizontal and Vertical Analysis
- Graphical Display
- Ratios of Man and Woman Respondents
- Descriptive Statistics such as counts of Specific Values

INTRODUCTION

- This report is about comparisons about

A) current and future

- Databases
- Programming Languages
- Frames

B) Demographics like

- Gender
- Age
- Educational Level

- This report is for everybody who is curious about Data Analysis and being a data analyst
- At the end you will gain knowledge about past usages and future trends to choose and shape your future

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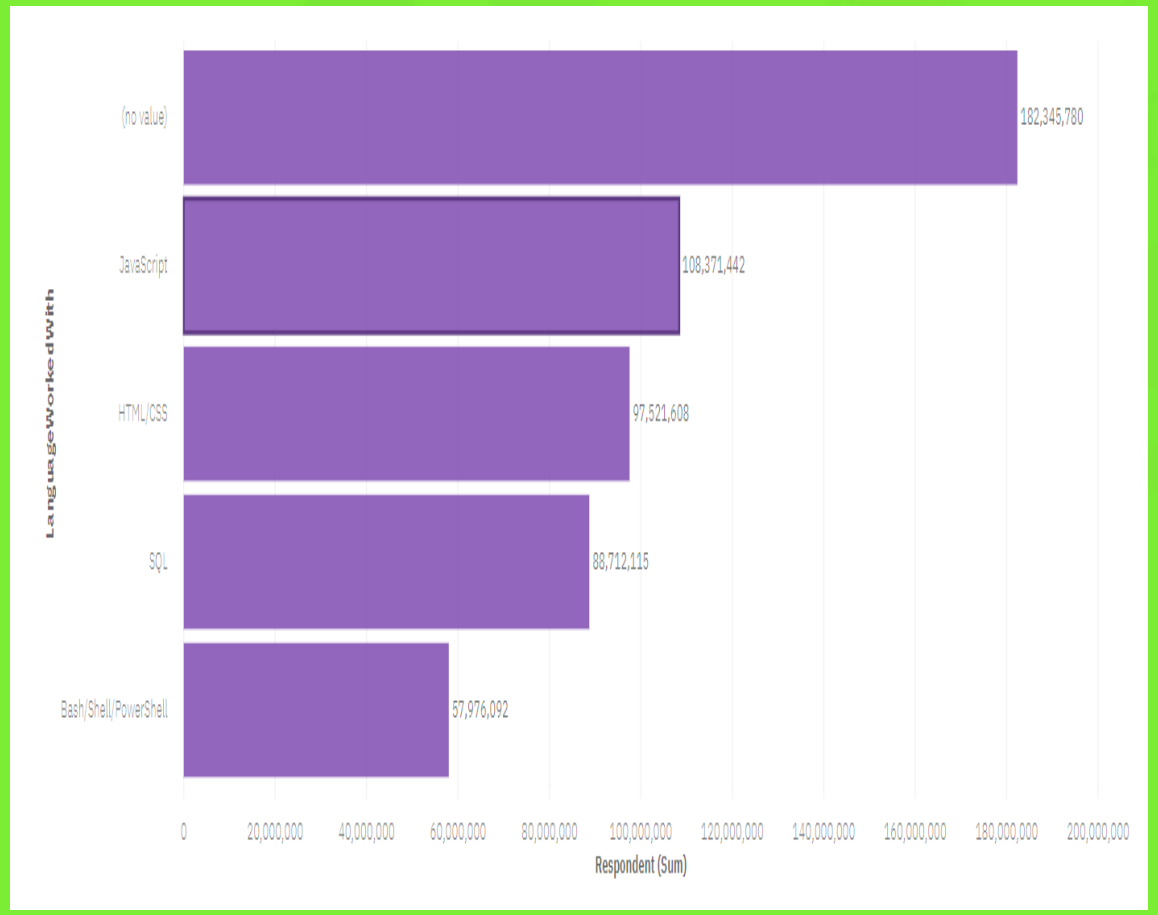
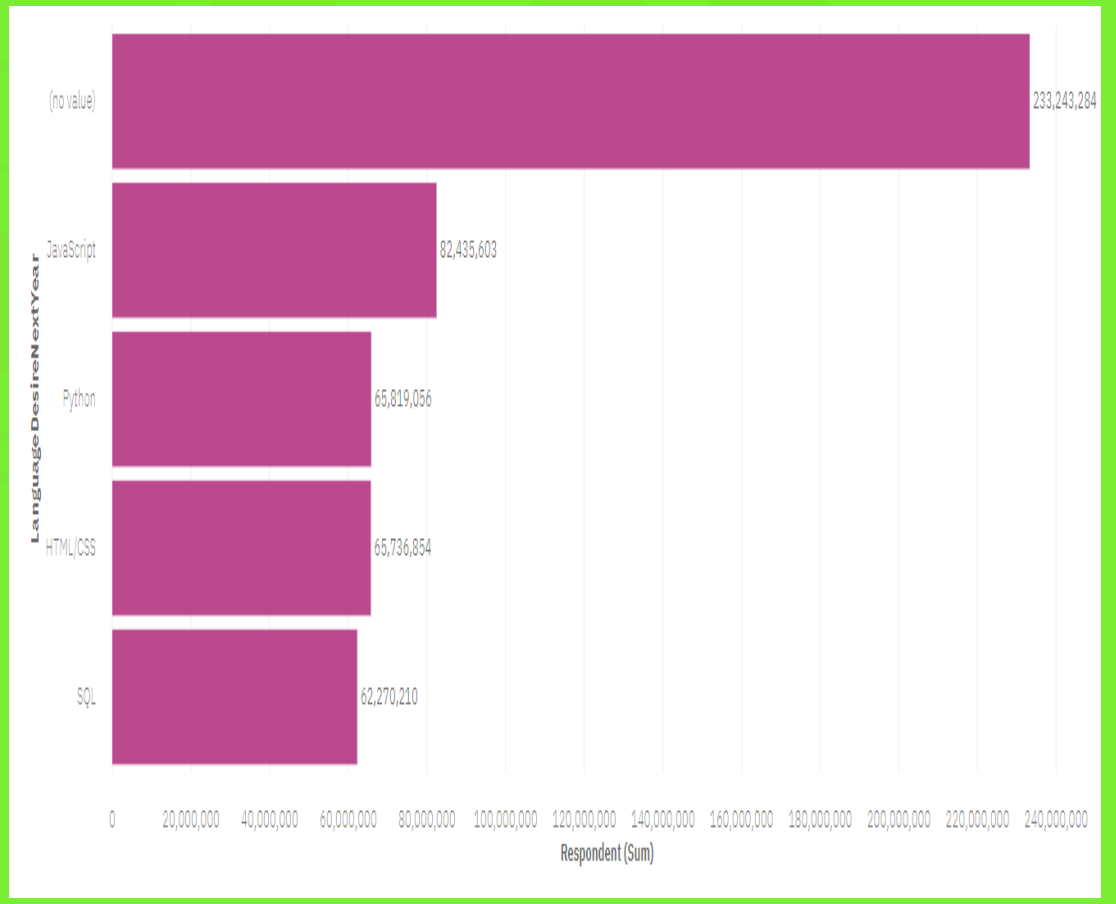
Top 5 Programming Language Trends

CURRENT



FUTURE



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Programming Language Trends Findings & Implications

Findings

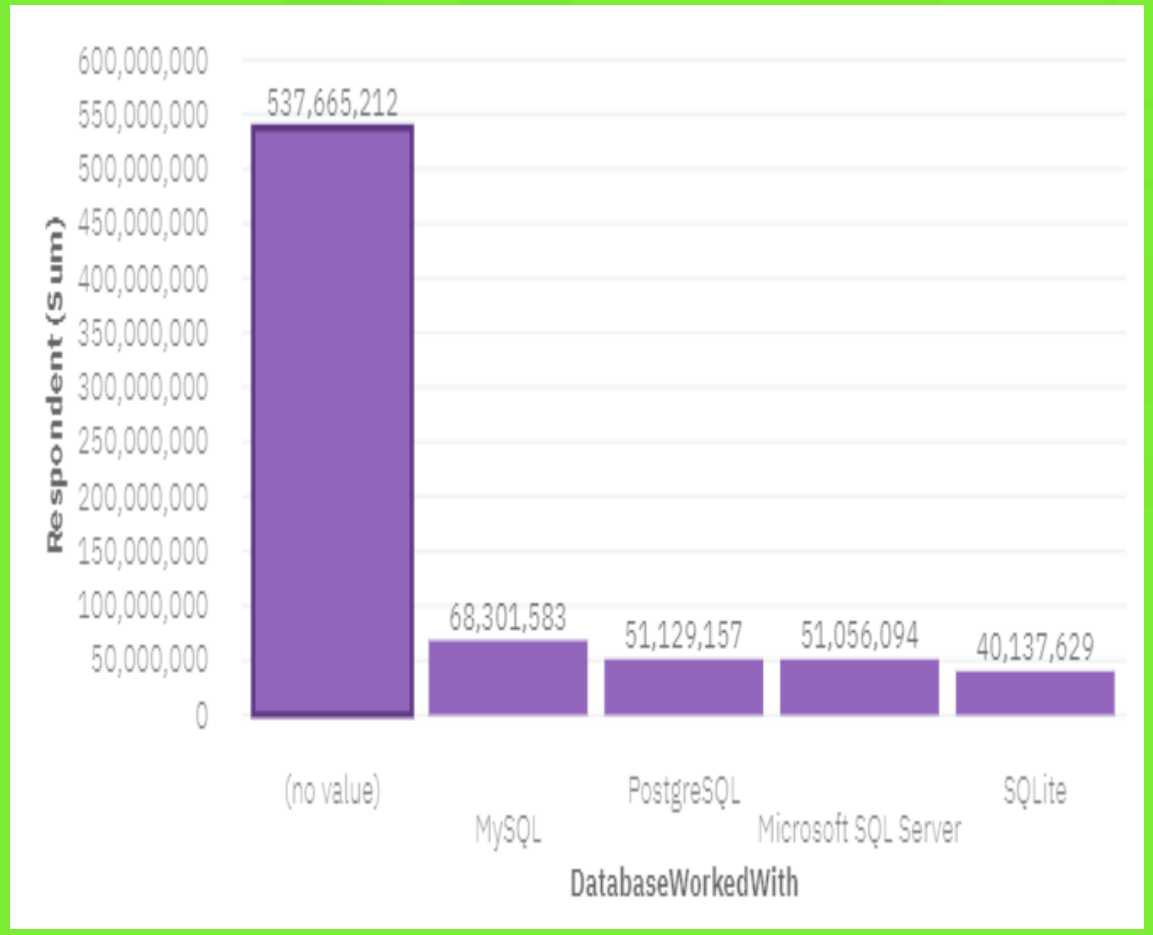
- Javascript is the most popular one
- SQL has a good place
- Bash/Shell/PowerShell is the last one
- C++, Java and Python is not in the list

Implications

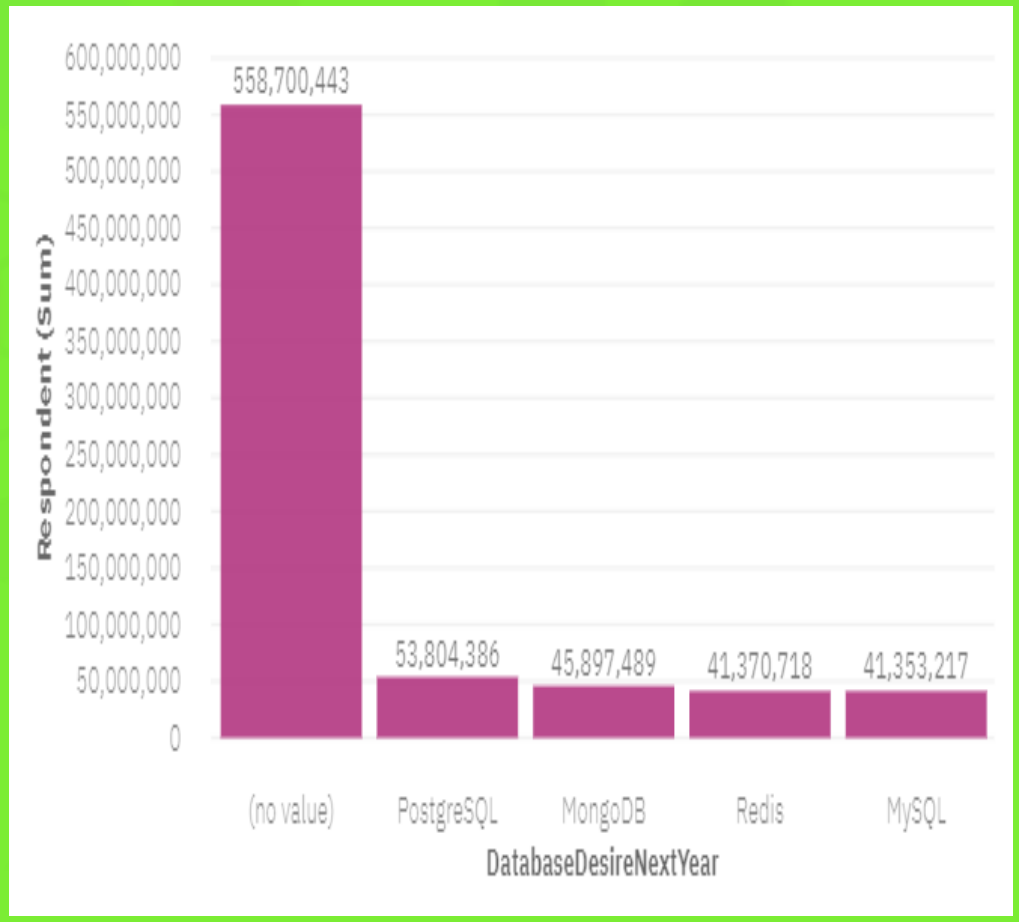
- Python popularity will increase dramatically
- SQL is still in the table
- HTML/CSS is still in the list
- Bash/Shell/PowerShell lost its place

Top 5 Databases

CURRENT



FUTURE



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Programming Database Trends Findings & Implications

Findings

- SQL based ones cover the top 5
- MySQL is the top one
- PostgreSQL and Microsoft SQL Server has nearly same value
- SQLite is the last one

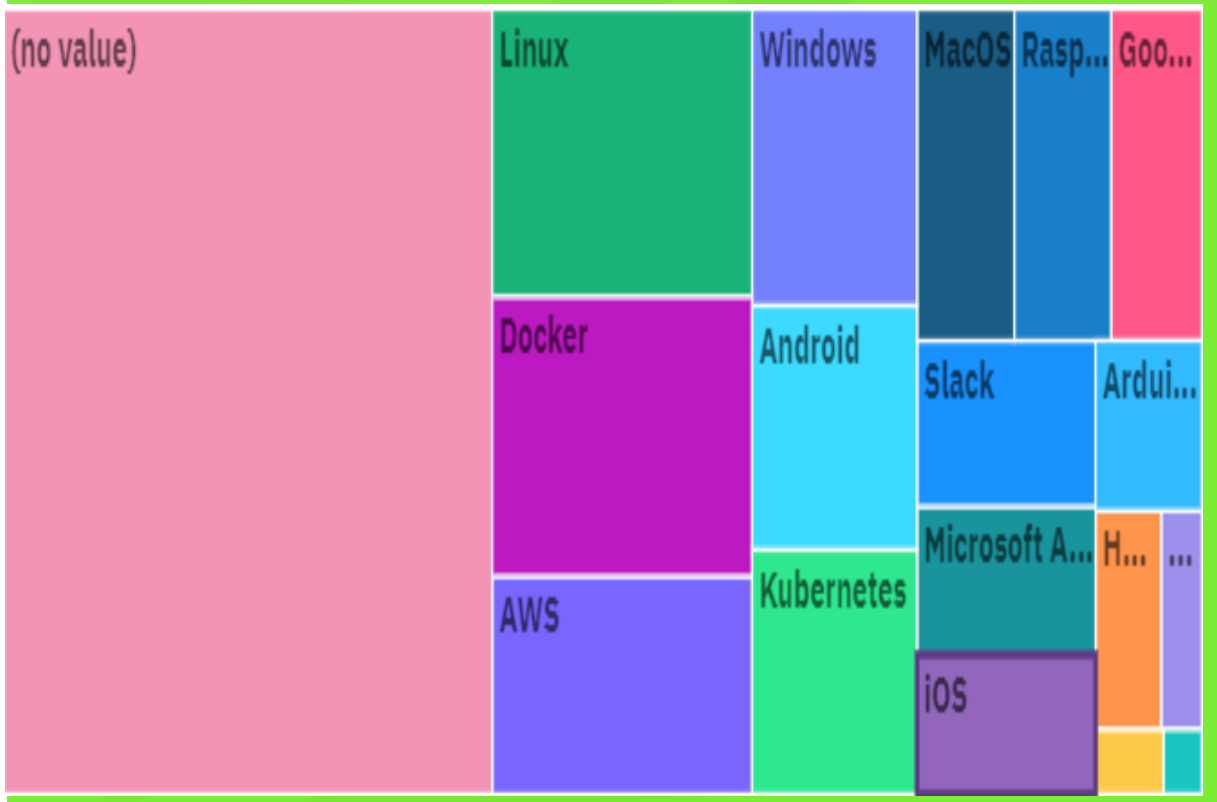
Implications

- New databases will come to the list and start to replace the SQLs
- MySQL is going to be the last one of the top 5
- MangoDB entered the list
- Radis entered the list

Frames

CURRENT

FUTURE



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DASHBOARD

https://eu-gb.dataplatform.cloud.ibm.com/dashboards/9e2c8de7-ecec-4cfe-8798-5f82f2b55435/view/0137c31a028362e309b5eee407c829522e34710bb2bb8b57d4807b4908362297f36e1b98c8291d5c8f170260fabe115ec0

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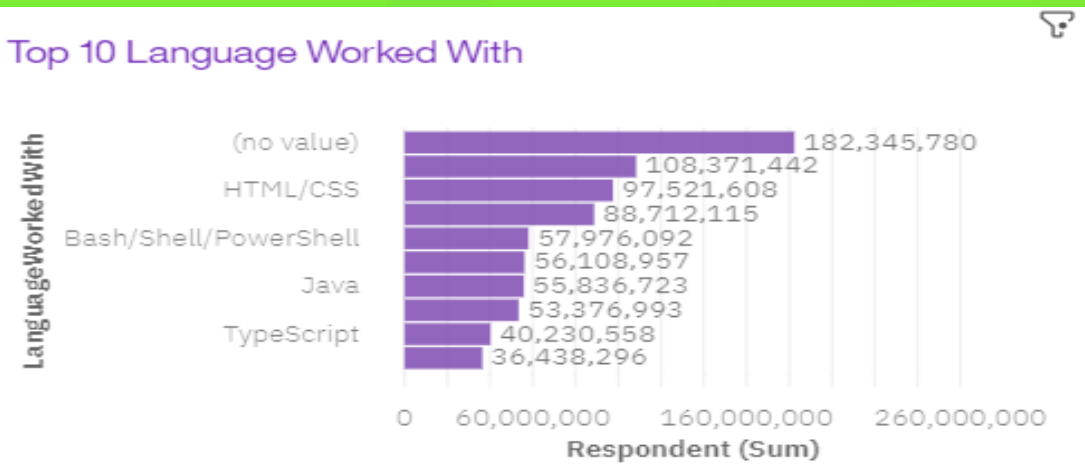
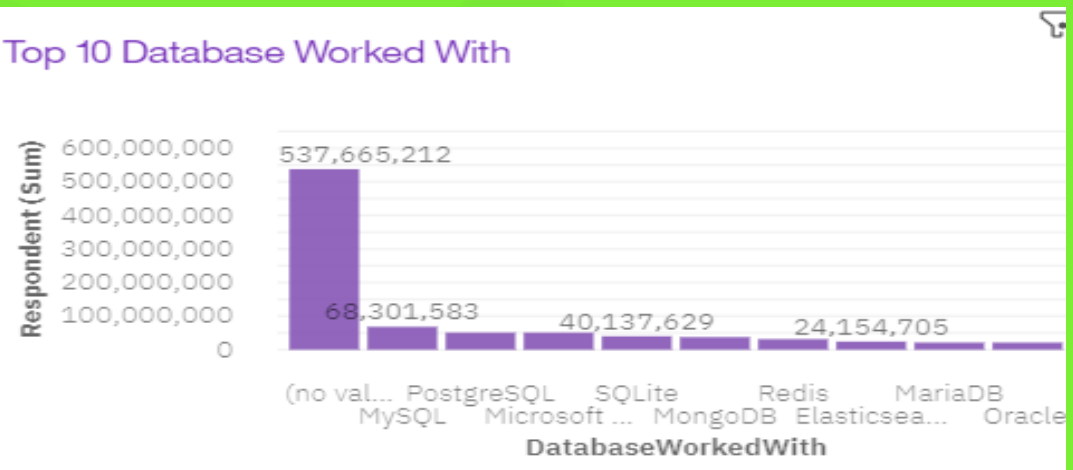
DASHBOARD TAB 1





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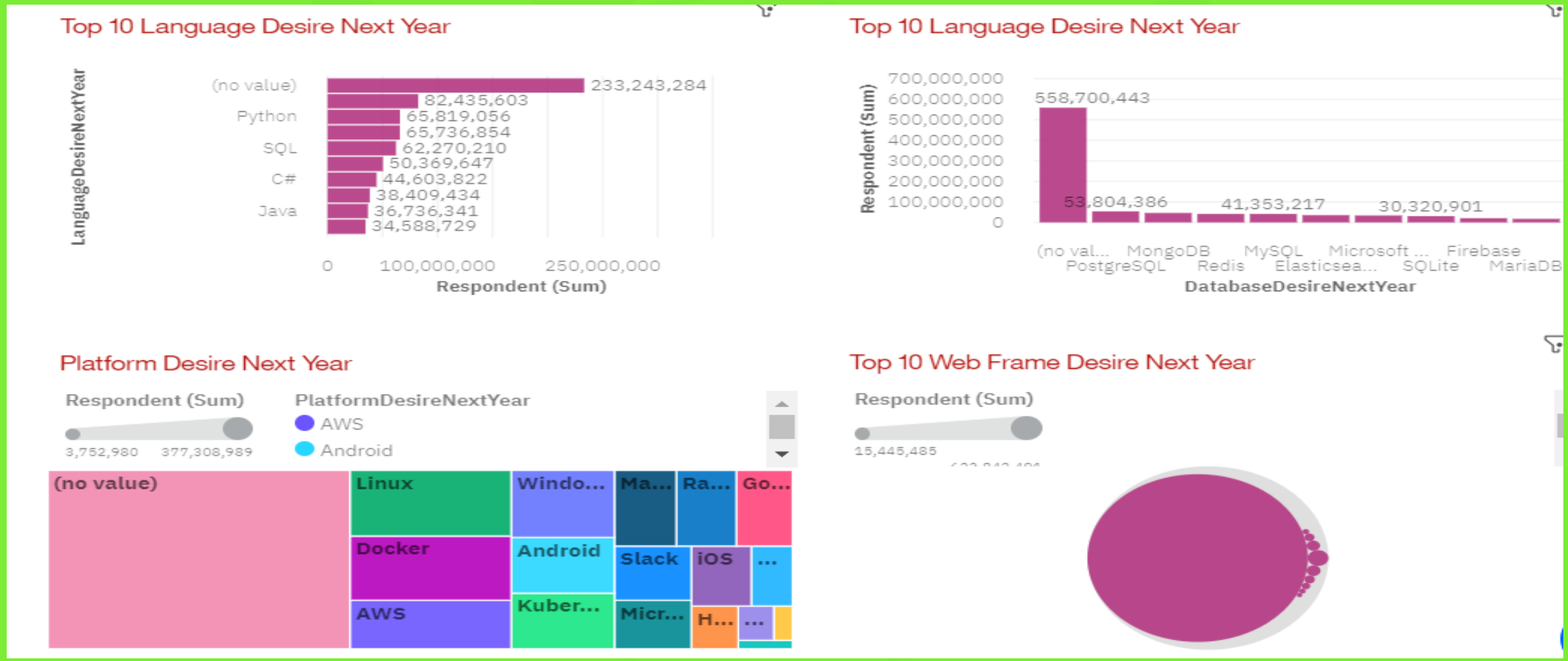
DASHBOARD TAB 2



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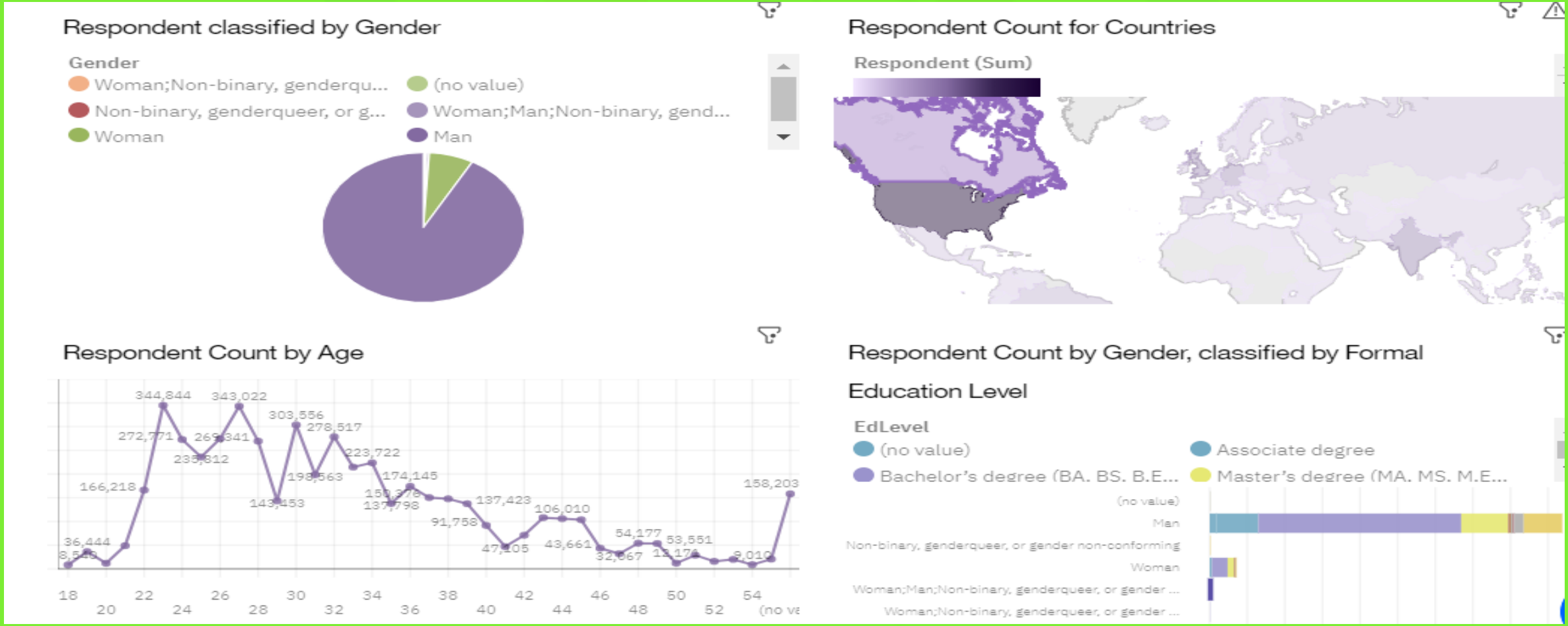
DASHBOARD TAB 3



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DISCUSSION

In future Python is going to be more favorable

Script languages wil be mostly used ones

NoSQL database impacts are increasing

Woman are going to have more interest in being a data analyst

OVERALL FINDINGS & IMPLICATIONS

Findings

- Programming languages changing rapidly
- Top 5 results may differ any time
- Python usage will increase in the future

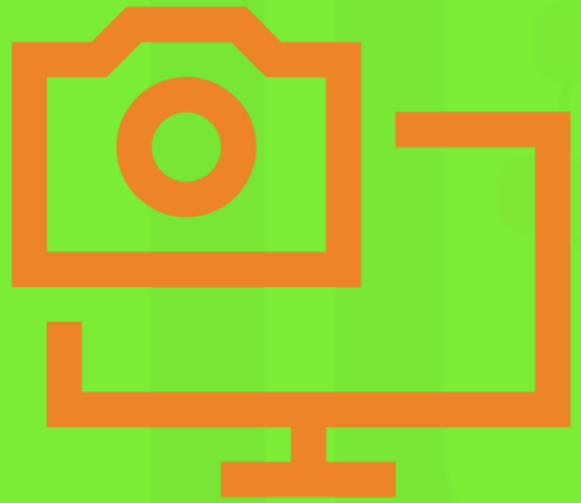
Implications

- SQL is going to use its popularity
- NoSQL ones will gain more interest
- these changes will have impact

CONCLUSION

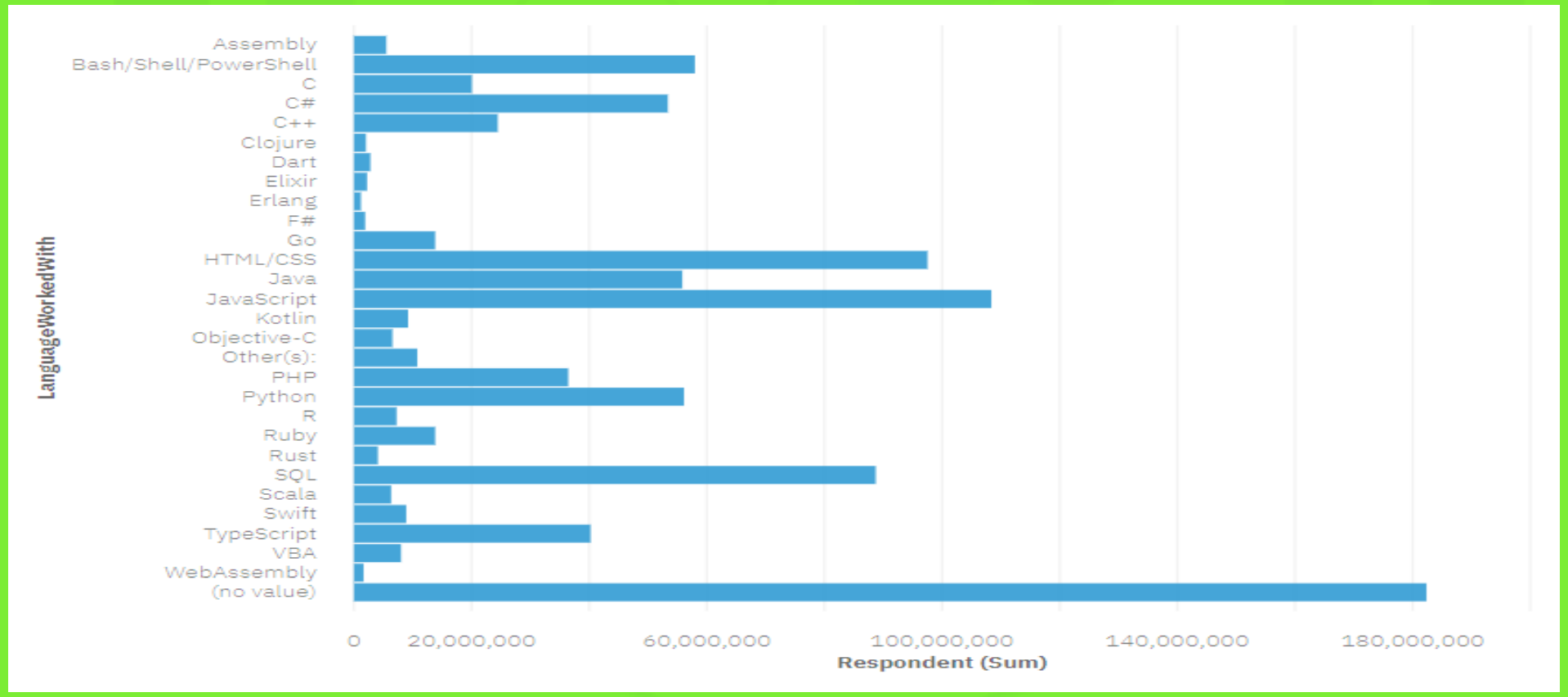
- Platforms are changing
- Cope with the change
- Dramatic changes have uge impacts

APPENDIX



- GitHun Job Posting
- Popular Languages

GITHUB JOB POSTINGS



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