The 2019 Stack Overflow Developer Survey Results

Sirwaan Nemati

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IBM Developer

SKILLS NETWORK

OUTLINE

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

EXECUTIVE SUMMARY

- Online survey of software professionals by Stack Overflow is examined
- Most popular language and DB : JAVA and MYSQL
- Most popular language and DB wanted to be learn next year: JAVA and PostgreSQL
- 95% Male and 5% Female
- Age group 25-30

INTRODUCTION

- Stack Overflow's annual Developer Survey is the largest and most comprehensive survey of people who code around the world
- Nearly 90,000 participant
- This Analysis examines popularity of different languages and databases.
- Also age and gender of participants analyzed.

METHODOLOGY

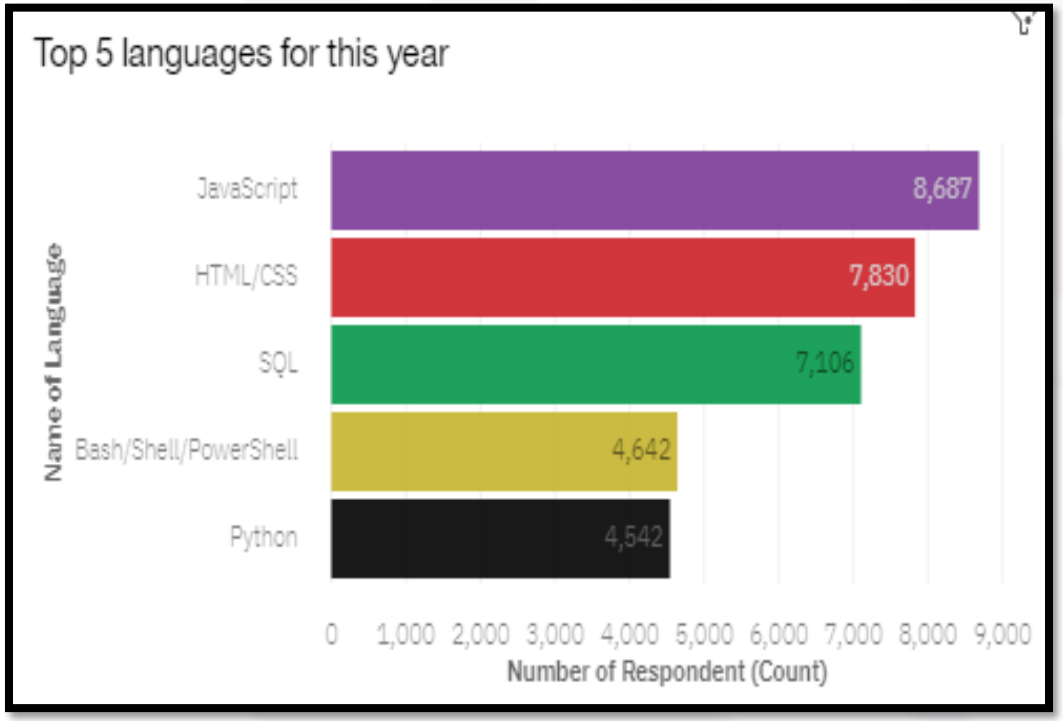
- Based on a survey of 88,883 software developers from 179 countries
- The dataset comes from the following source:

  Click HERE to see the source
- The dataset used is a randomized subset contains around 1/10th of the original data set and available as a .csv file here.

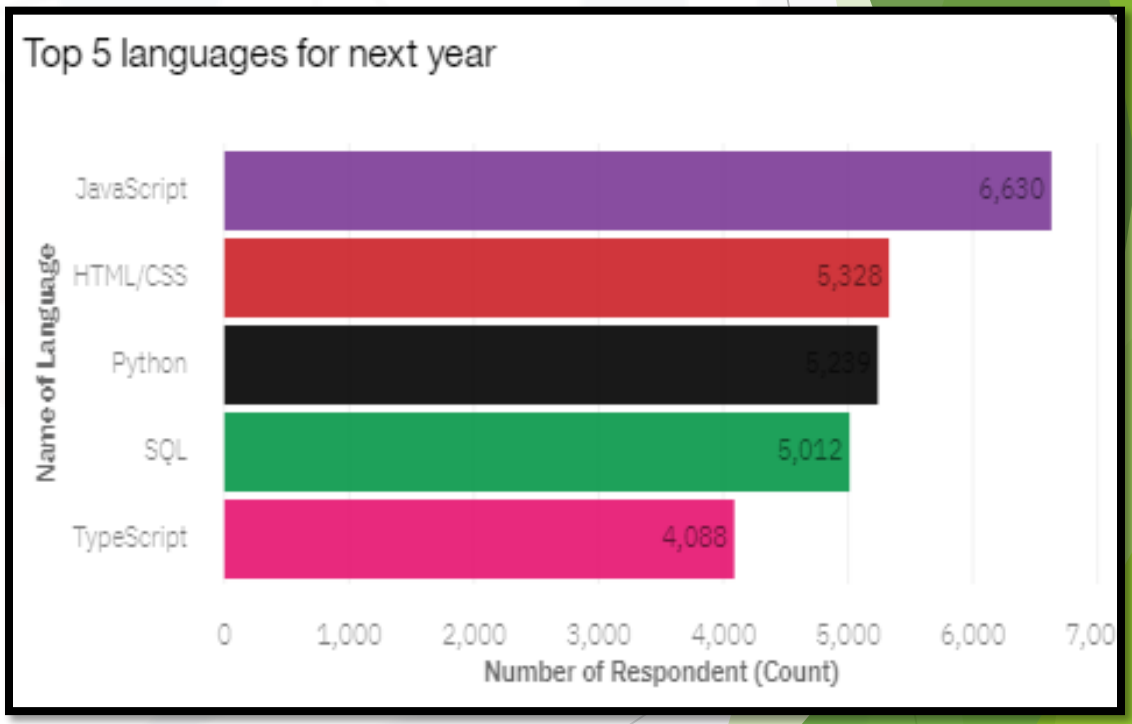
RESULTS

PROGRAMMING LANGUAGE TRENDS

Current Year



Next Year



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PROGRAMMING LANGUAGE TRENDS - FINDINGS & IMPLICATIONS

Findings

- Top 5 LANGUAGE : Java, HTML ,SQL, BASH and Python
- Top 5 LANGUAGE wanted to be learn : Java, HTML ,SQL, Python and Typescipt

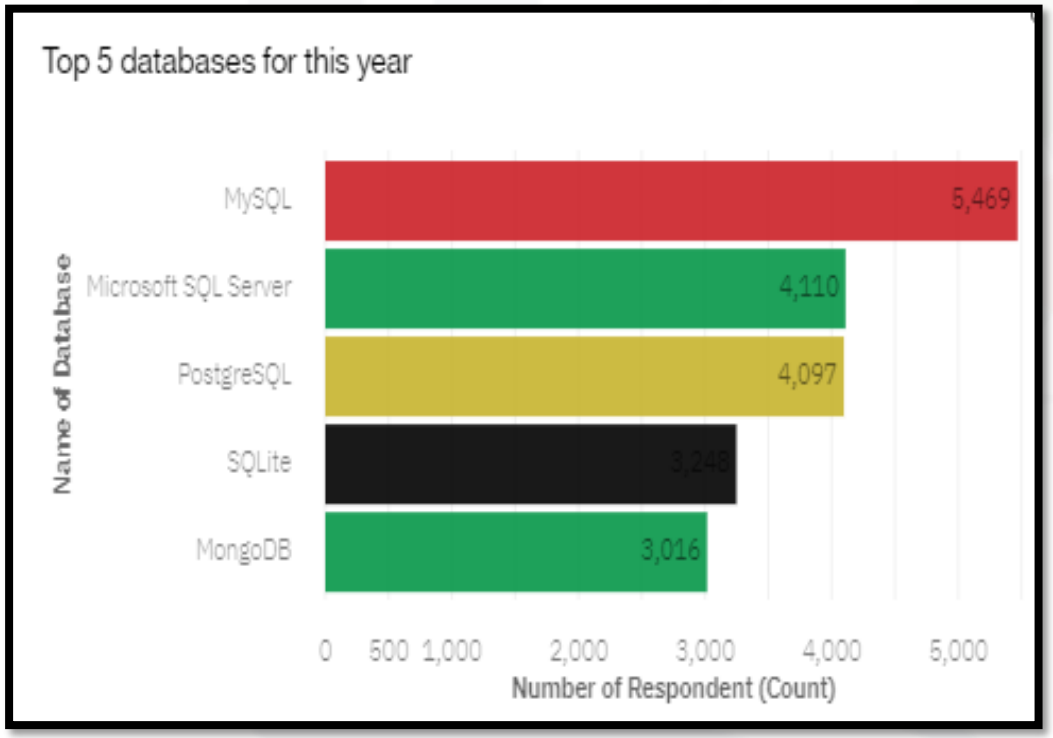
Implications

Most likely, next year:

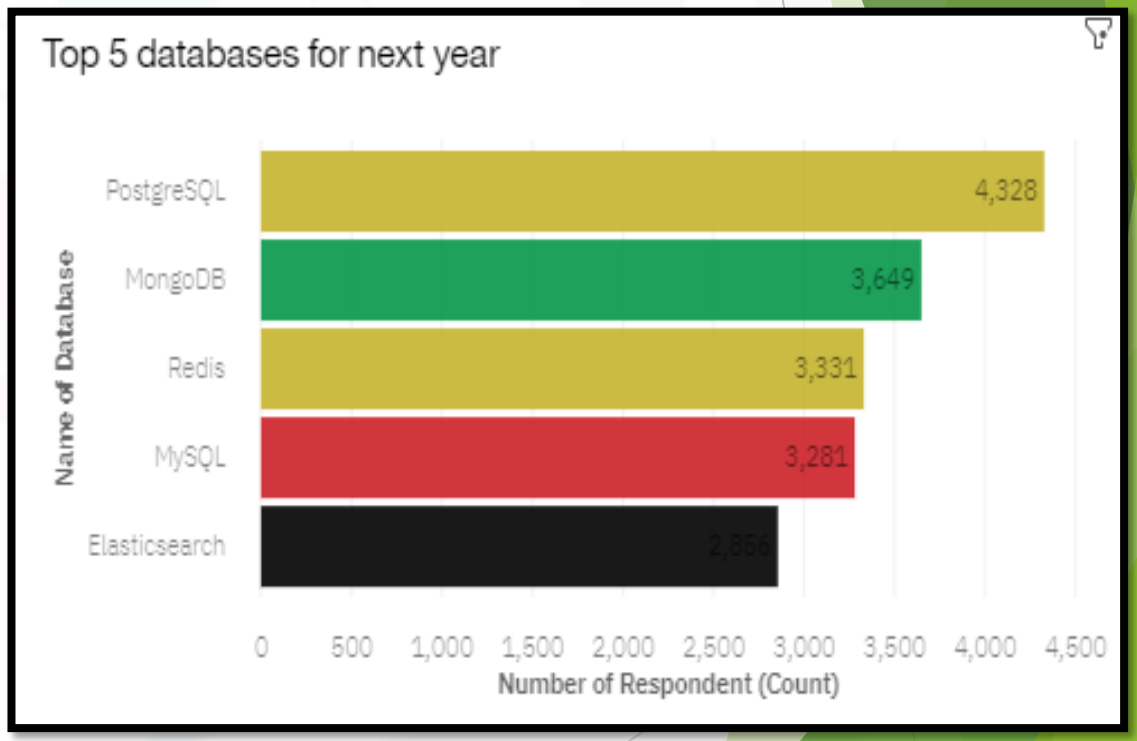
- Java will remain the most popular language
- Python will become more popular
- Bash will become less popular next year

DATABASE TRENDS

Current Year



Next Year



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DATABASE TRENDS - FINDINGS & IMPLICATIONS

Findings

- Top 5 DATABASE : MYSQL, MS SQL ,PostgreSQL, SQLITE and MongoDB
- Top 5 DB wanted to be learn : PostgreSQL, MongoDB, Redis, MYSQL and Elasticsearch

Implications

Most likely, next year:

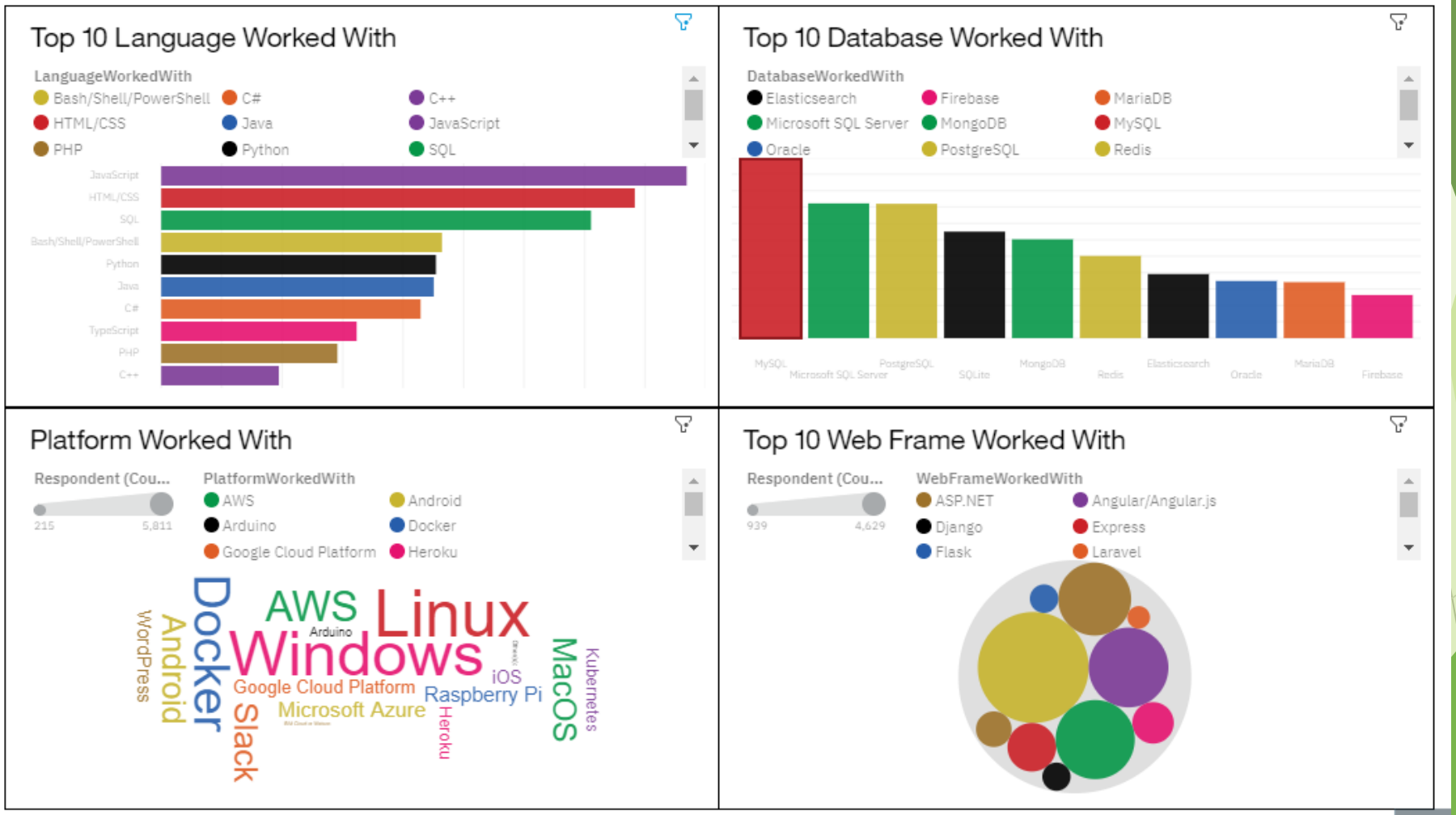
- PostgreSQL will remain the most popular DB
- MangoDB will become more popular
- MS SQL will become less popular next year

DASHBOARD

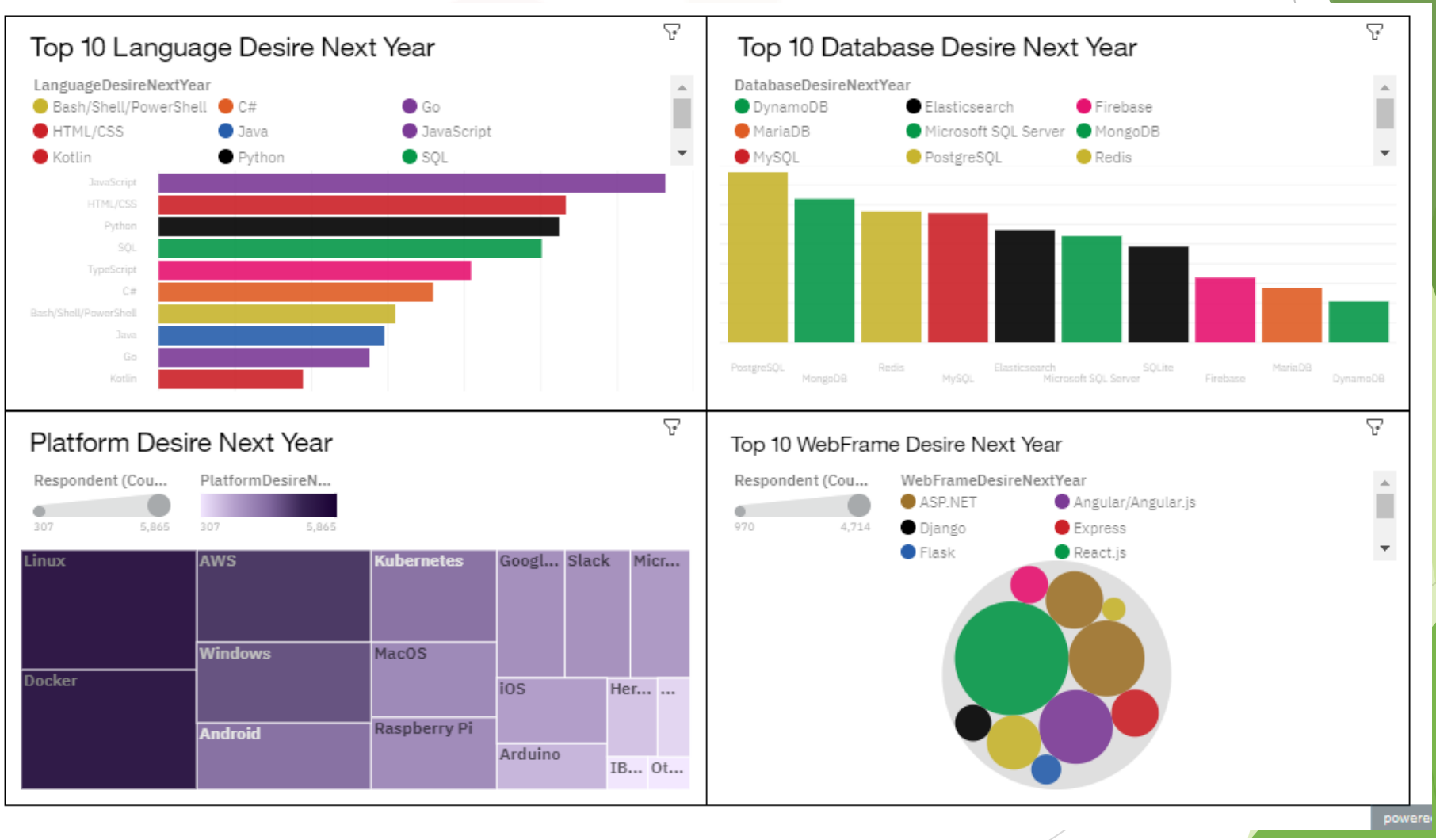
The Dashboard consists of three tabs:

For viewing the dashboard please click HERE!

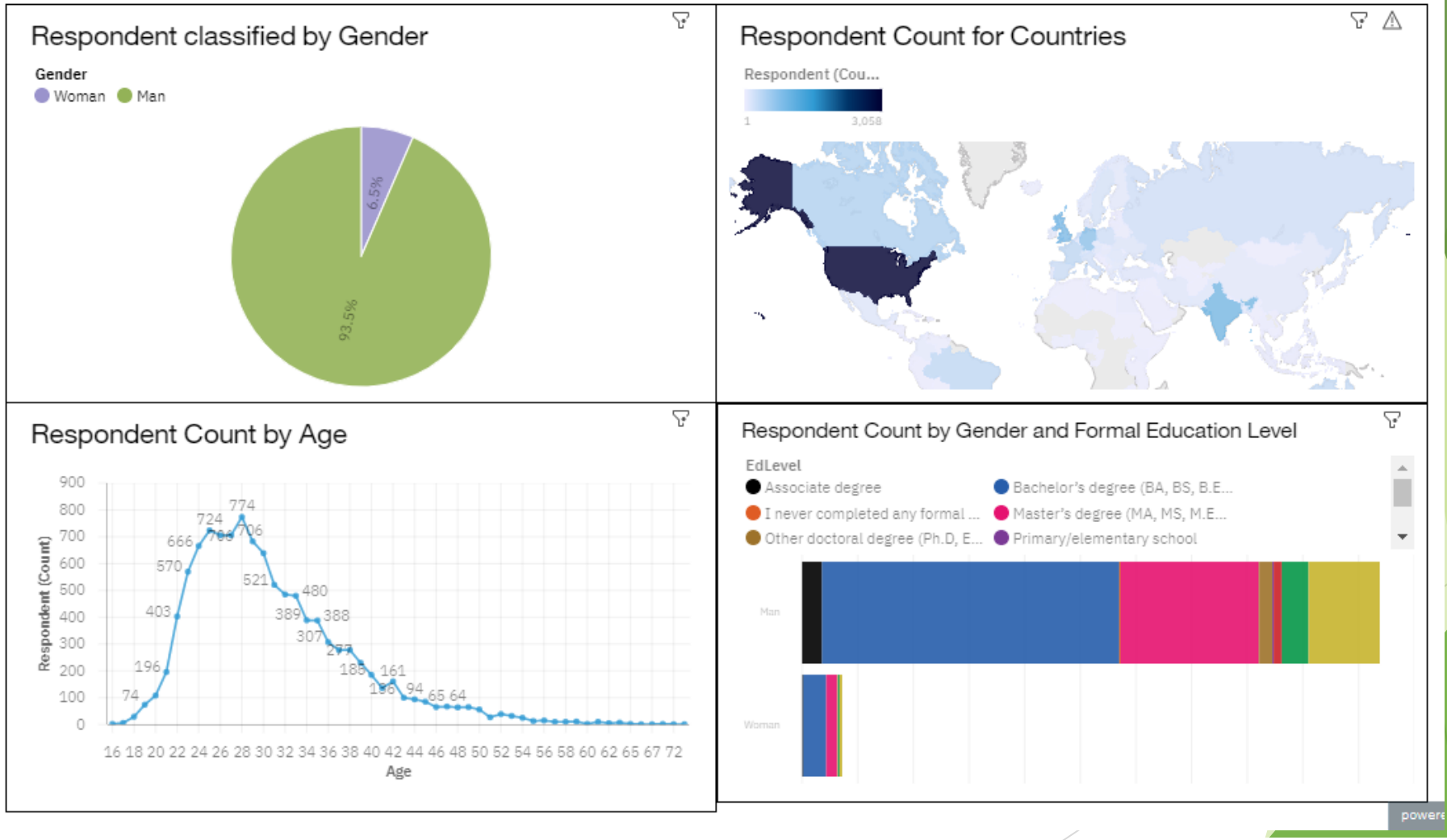
DASHBOARD TAB 1



DASHBOARD TAB 2



DASHBOARD TAB 3



DISCUSSION

- Is python become the most popular languages in near future?
- Future of MS SQL Server
- Why workplaces is male-dominated?

OVERALL FINDINGS & IMPLICATIONS

Findings

- Most participant are male
- Java is and remain the most popular language for this year and next year
- Linux Continue to gain more share in the market

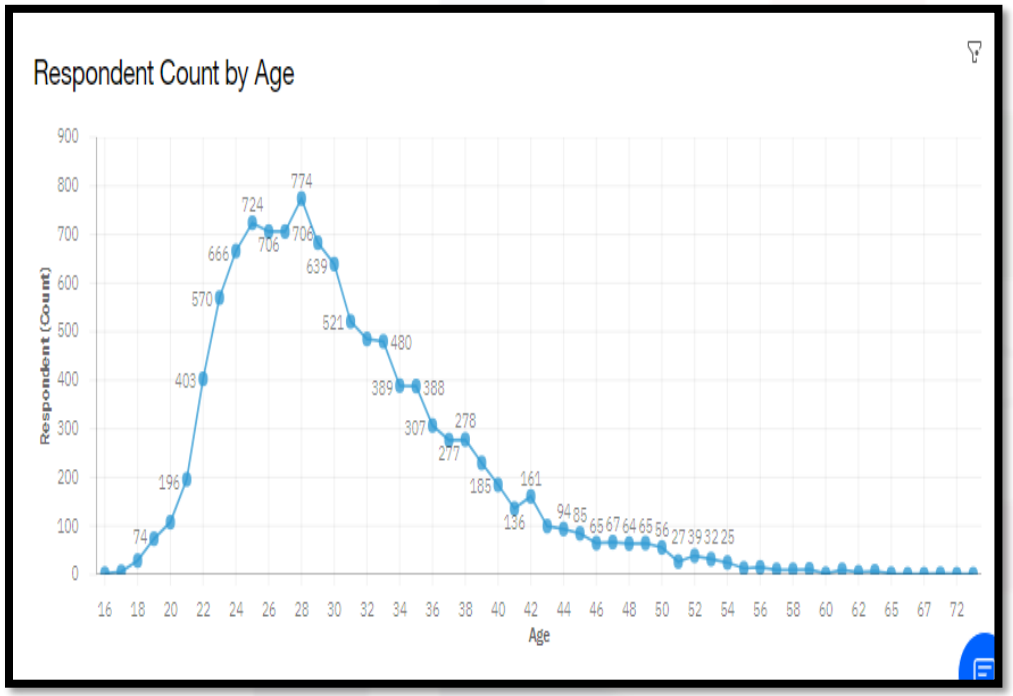
Implications

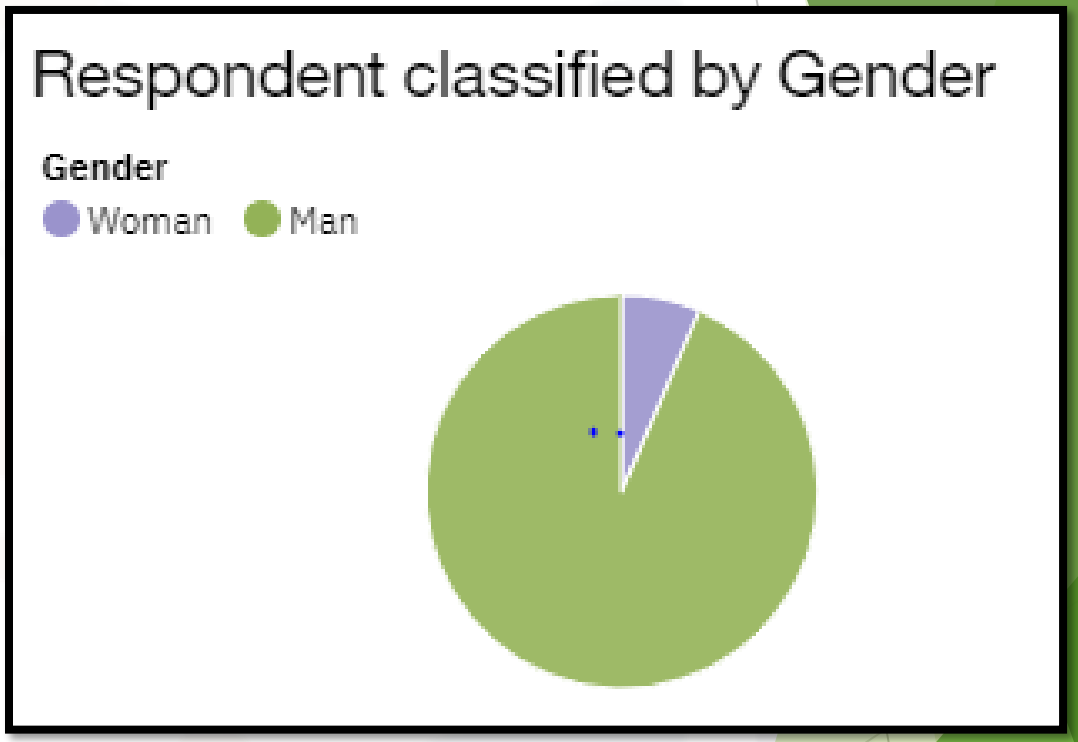
- PostgreSQL most likely will become the most popular DB in near future
- Python can be the rising star of languages

CONCLUSION

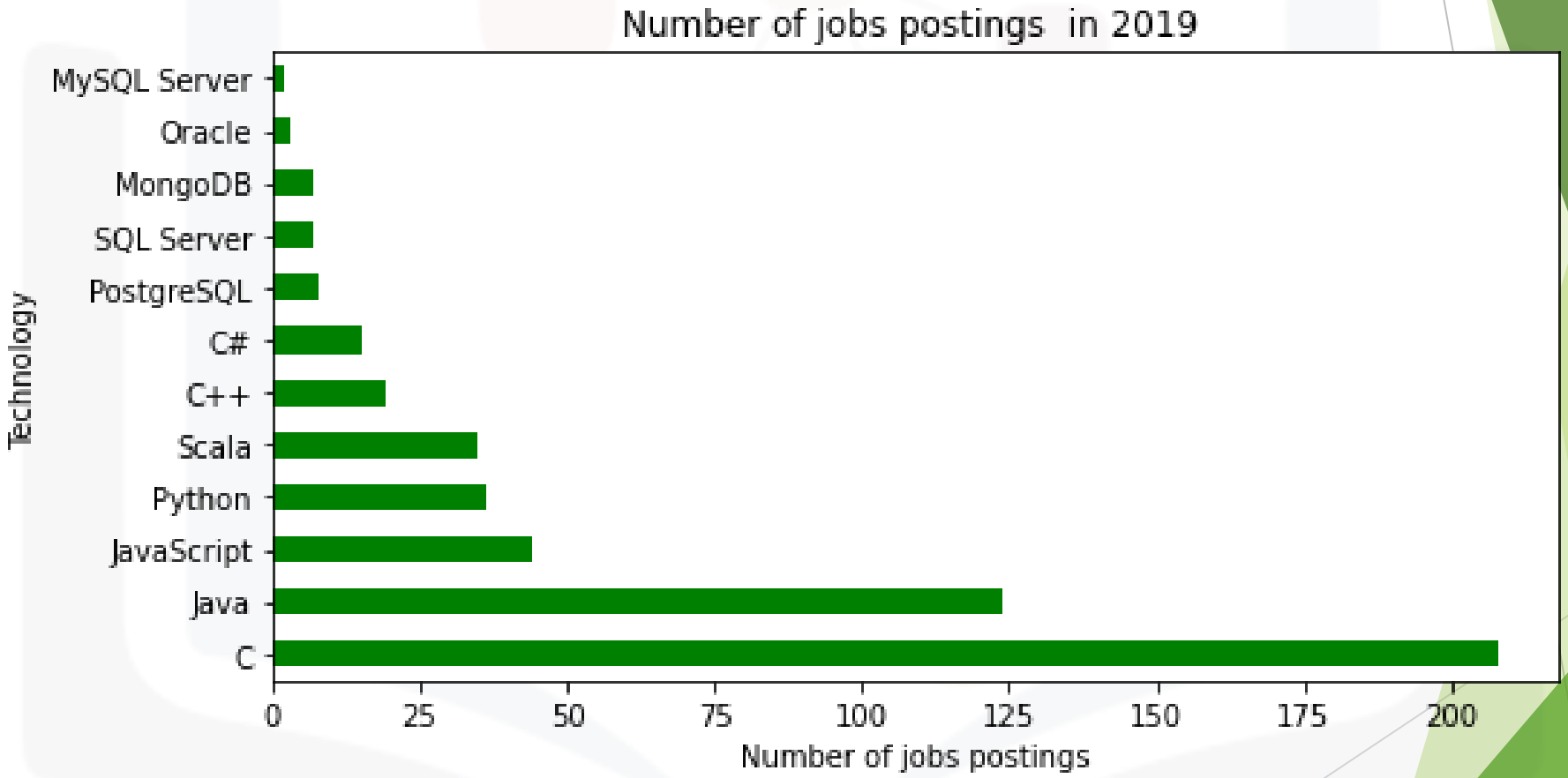
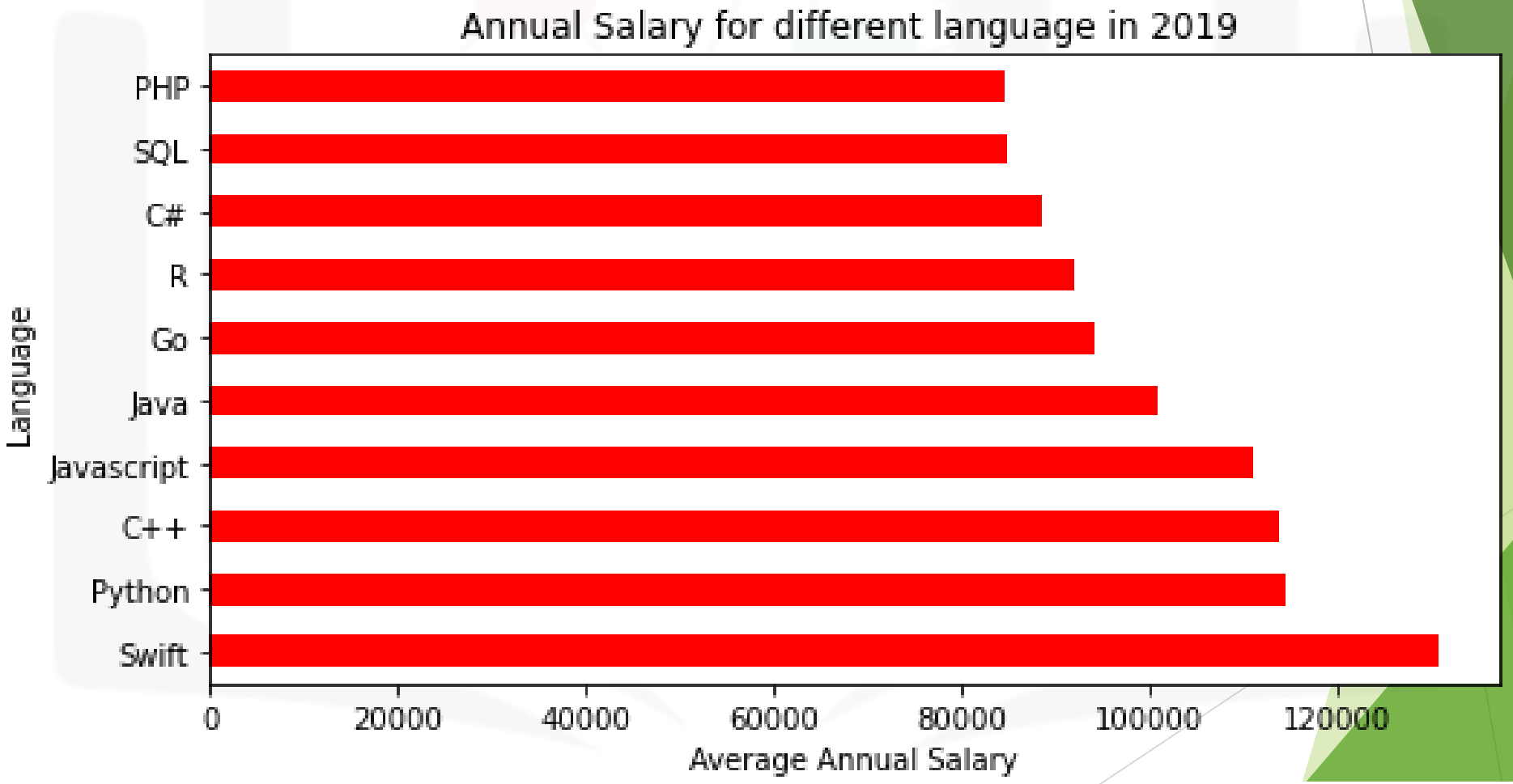
- SWIFT and Python programmer have higher salary
- The developer job market is dominated by males
- Age of workforces currently is between 25-30
- PostgreSQL become more popular next year

APPENDIX


Respondent Count by Age
Respondent (Count)
Age
900
800
700
600
500
400
300
200
100
0
16 18 20 22 24 26 28 30 32 34 36 38 40 42 44 46 48 50 52 54 56 58 60 62 65 67 72
74 196 403 570 666 724 706 774 706 639 521 480 389 388 307 278 277 185 161 136 94 85 65 67 64 65 56 27 39 32 25


Respondent classified by Gender
Gender
Woman
Man

GITHUB JOB POSTINGS



POPULAR LANGUAGES