Developer Survey Findings

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2022-05-12

OUTLINE

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

EXECUTIVE SUMMARY

- JavaScript remains Top 1
- TypeScript enters Top 5
- PostgreSQL gains Top 1
- C# dropped out of Top 5
- Microsoft SQL Server dropped out of Top 5

INTRODUCTION

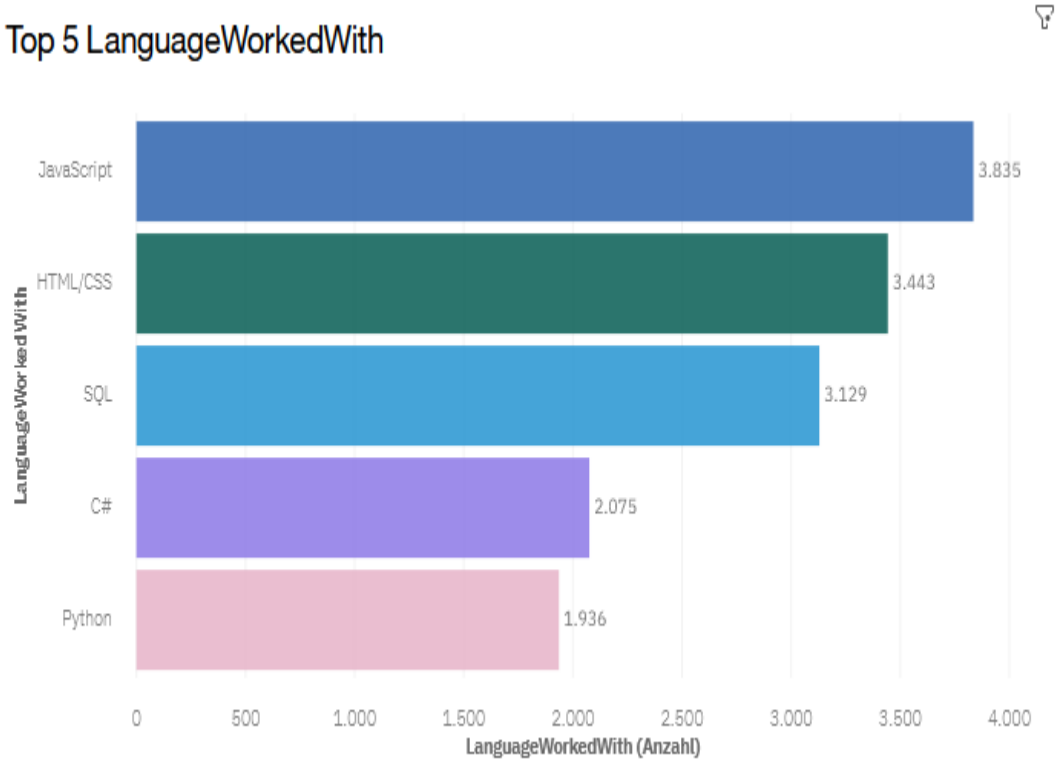
- Present finding of survey to our Developer Team Leads for
  - Programming languages
  - Database technologies
- Introduce Dashboard
- Discussion of Implications
- Appendix
  - GitHub Job Posting
  - Popular Languages Salaries

METHODOLOGY

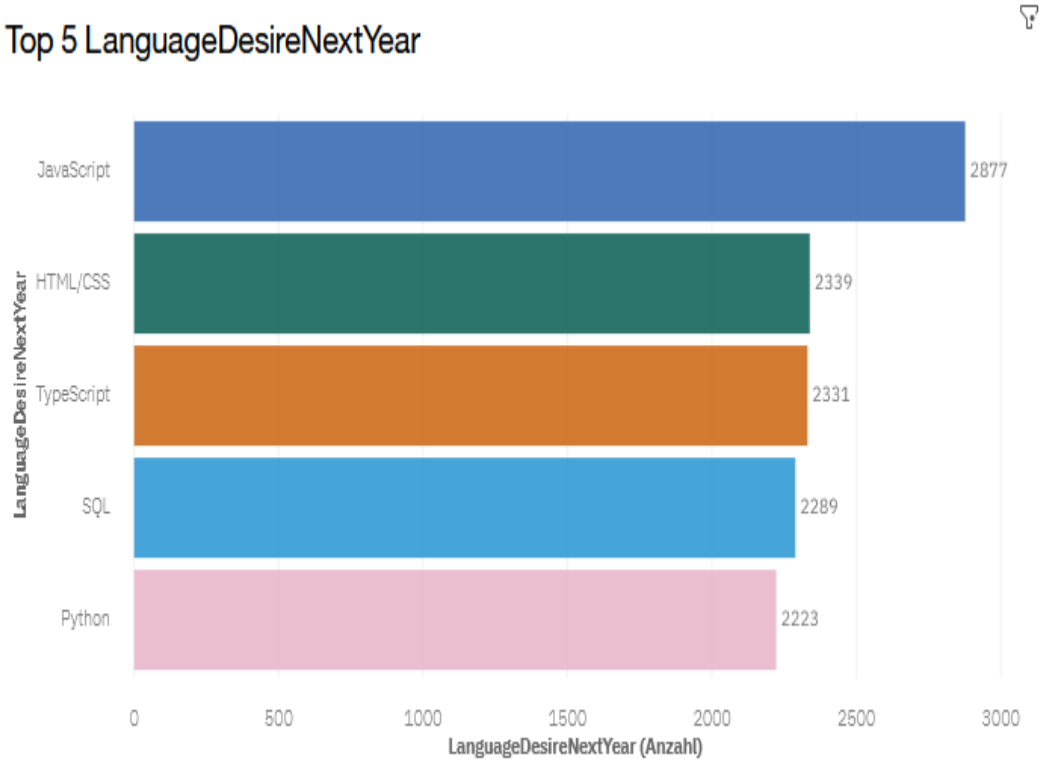
- We have used various ways to acquire and prepare the datasets including
  - Web scraping
  - APIs
  - Dashboarding
- Please see Appendix for the sources

PROGRAMMING LANGUAGE TRENDS

Current Year



Next Year



PROGRAMMING LANGUAGE TRENDS - FINDINGS & IMPLICATIONS

Findings

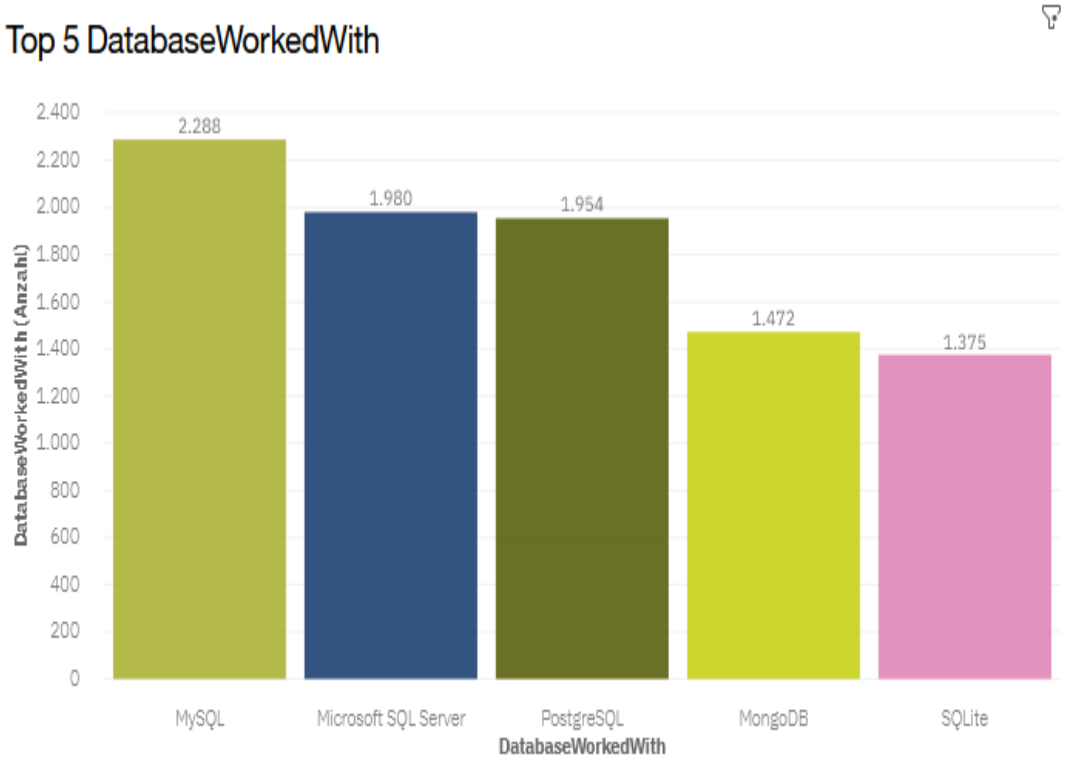
- Top 1 is JavaScript
- Top 2 is HTML/CSS
- Top 3 is SQL

Implications

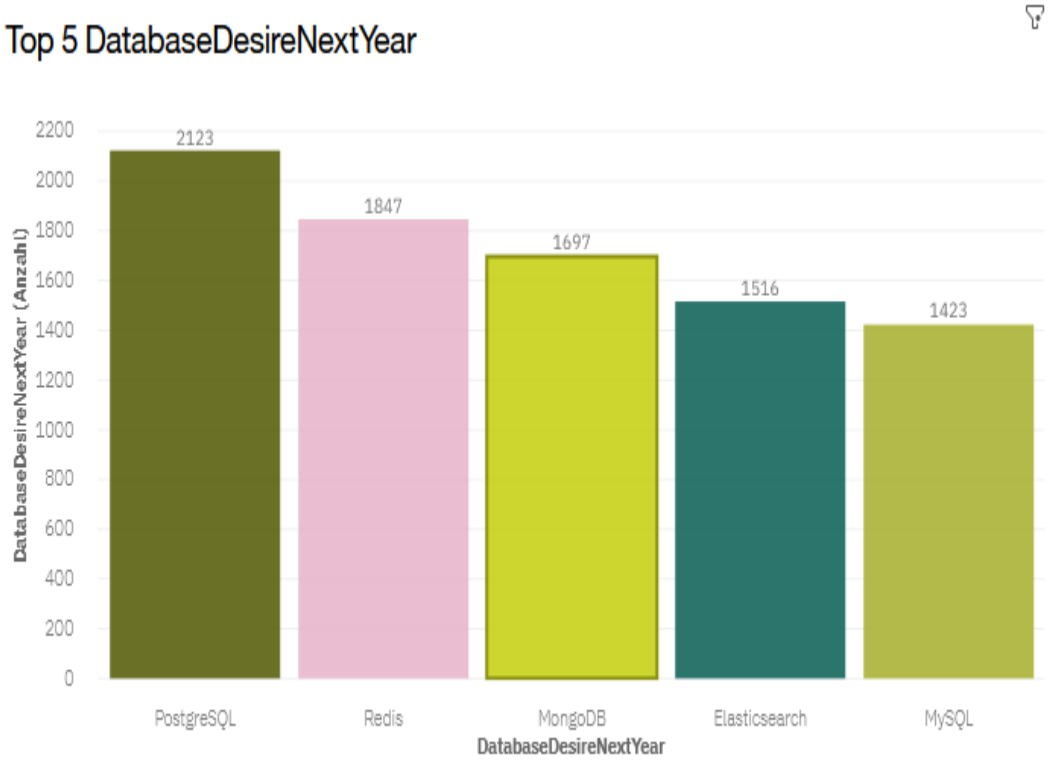
- JavaScript extends its lead
- C# drops out of Top 5 and is replaced by TypeScript
- SQL drops to Top 4

DATABASE TRENDS

Current Year



Next Year



DATABASE TRENDS - FINDINGS & IMPLICATIONS

Findings

- MySQL is Top 1
- Microsoft SQL Server is Top 2
- PostgreSQL is Top 3

Implications

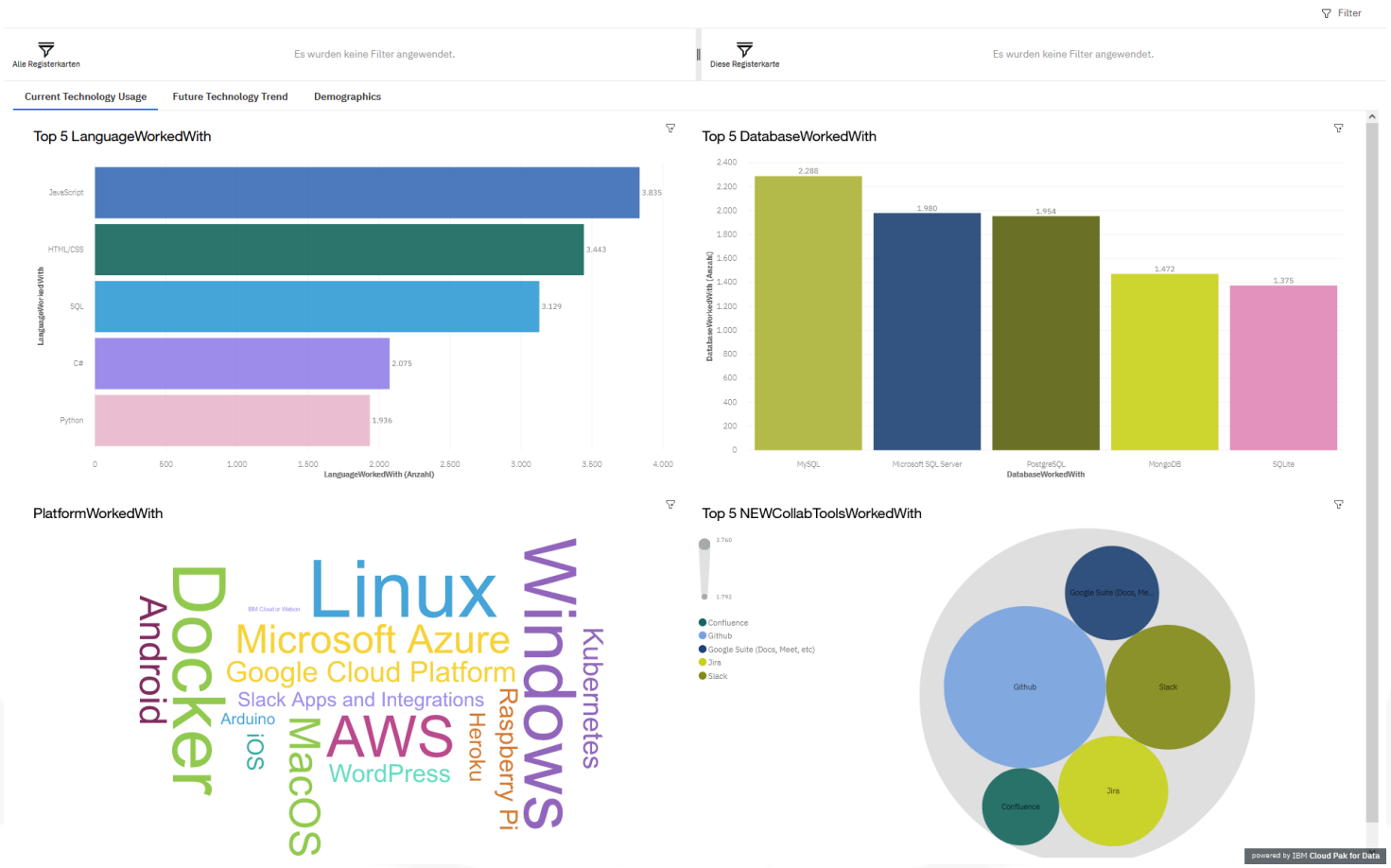
- PostgreSQL takes Top 1 spot
- Microsoft SQL Server drops out of Top 5
- Redis enters as Top 3

DASHBOARD

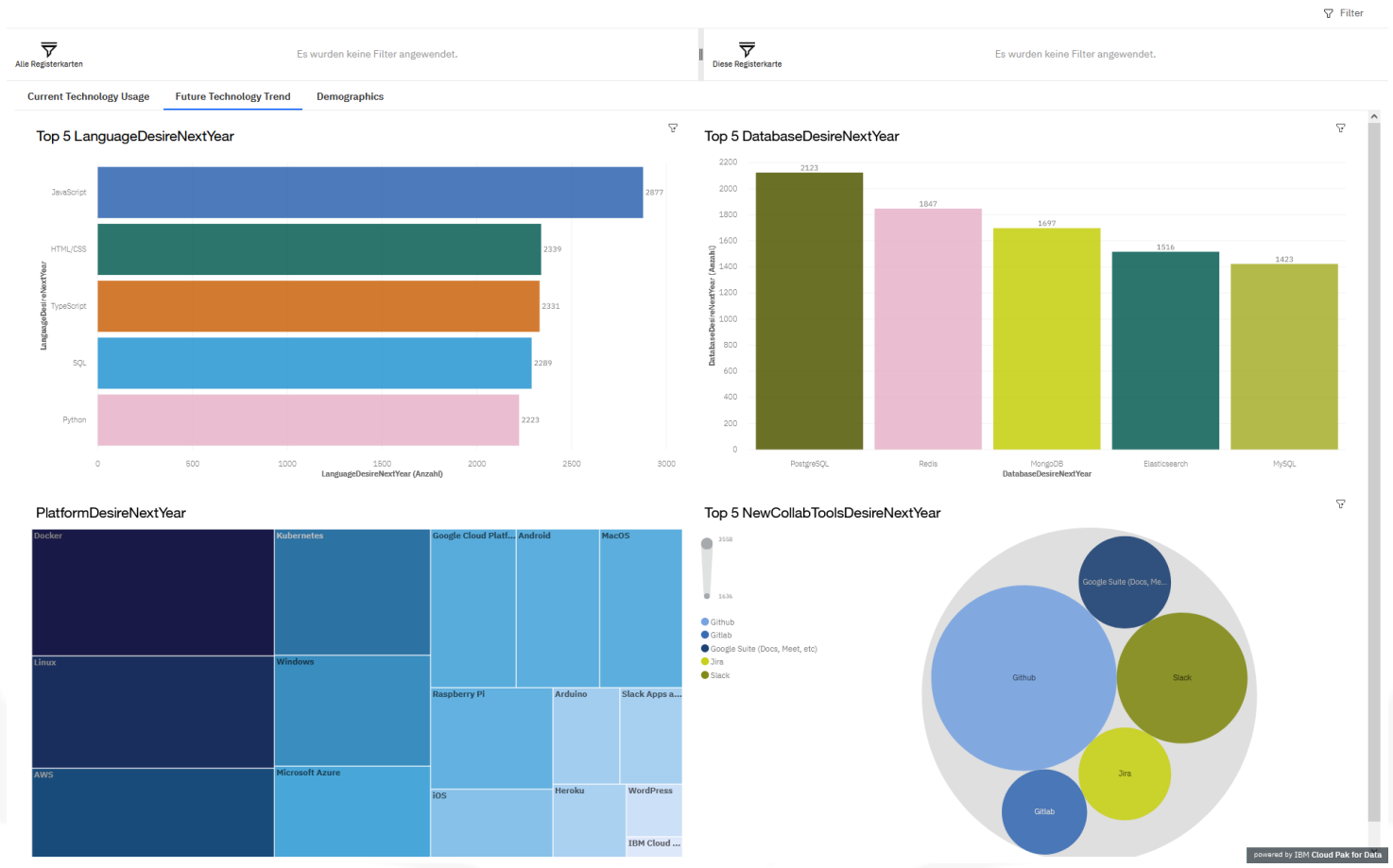
SCAN ME

https://eu-de.dataplatform.cloud.ibm.com/dashboards/c4fda5db-0947-49f1-9205-aa31781bf995/view/6f67a5271fa016974cc5c4e407cb790f753f2555b4bb800780827b495e327897f0681599c8271a5f8818536ba0ec170fc0

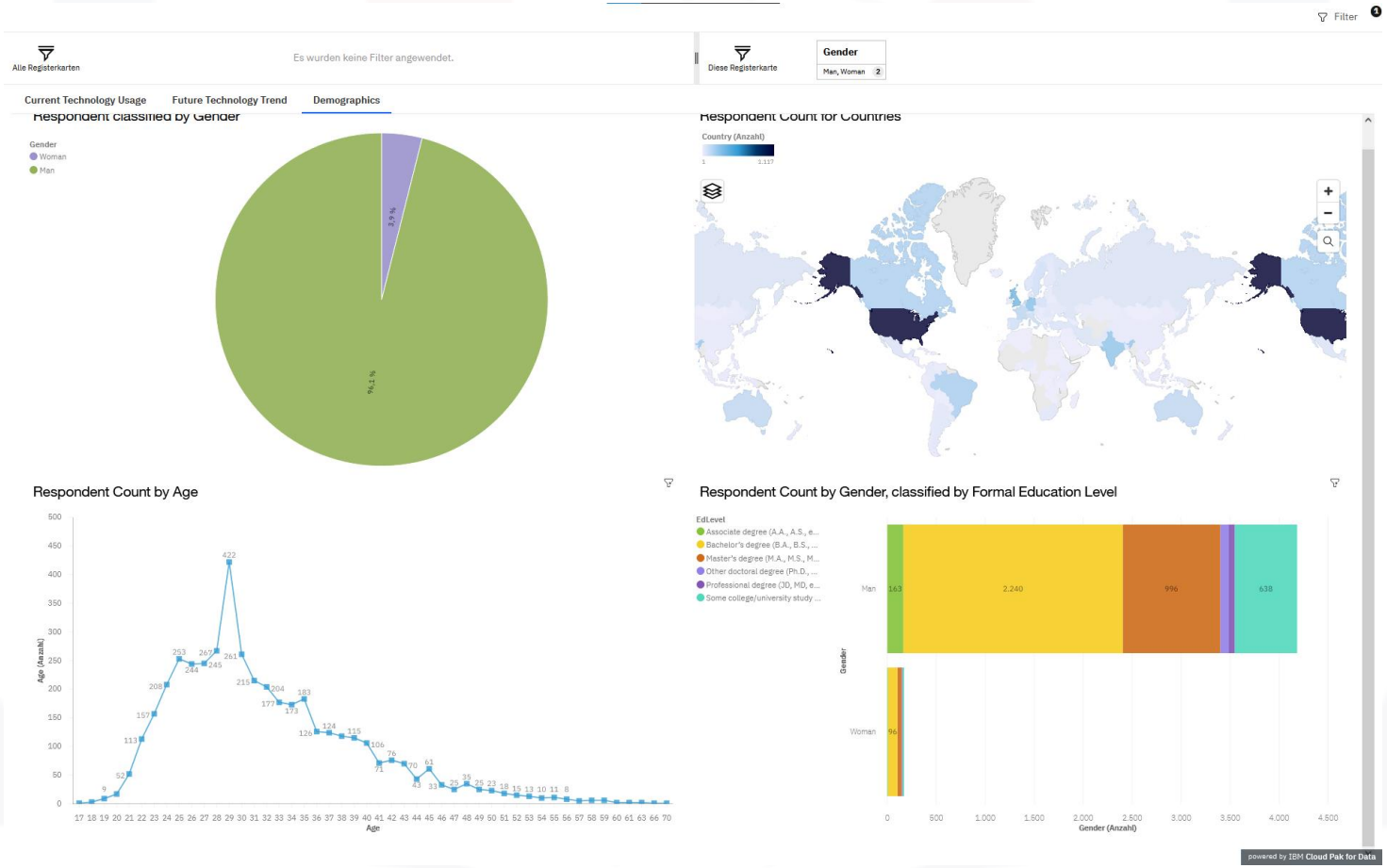
DASHBOARD TAB 1



DASHBOARD TAB 2



DASHBOARD TAB 3



DISCUSSION

- TypeScript enters the Top 5 with a solid third placement
- Desire for JavaScript increased
- HTML/CSS, SQL and Python stays strong
- PostgreSQL takes Top 1 spot for desired databases
- Desire for Microsoft Server SQL and SQLite is greatly diminished

OVERALL FINDINGS & IMPLICATIONS

Findings

- C# drops out of Top 5
- C# is replaced by TypeScript
- JavaScript extends its lead
- PostgreSQL takes Top 1 spot
- Microsoft SQL Server drops out of Top 5

Implications

- Developers should not invest too much time in C#
- Developers should learn JavaScript and TypeScript
- Developers should learn PostgreSQL

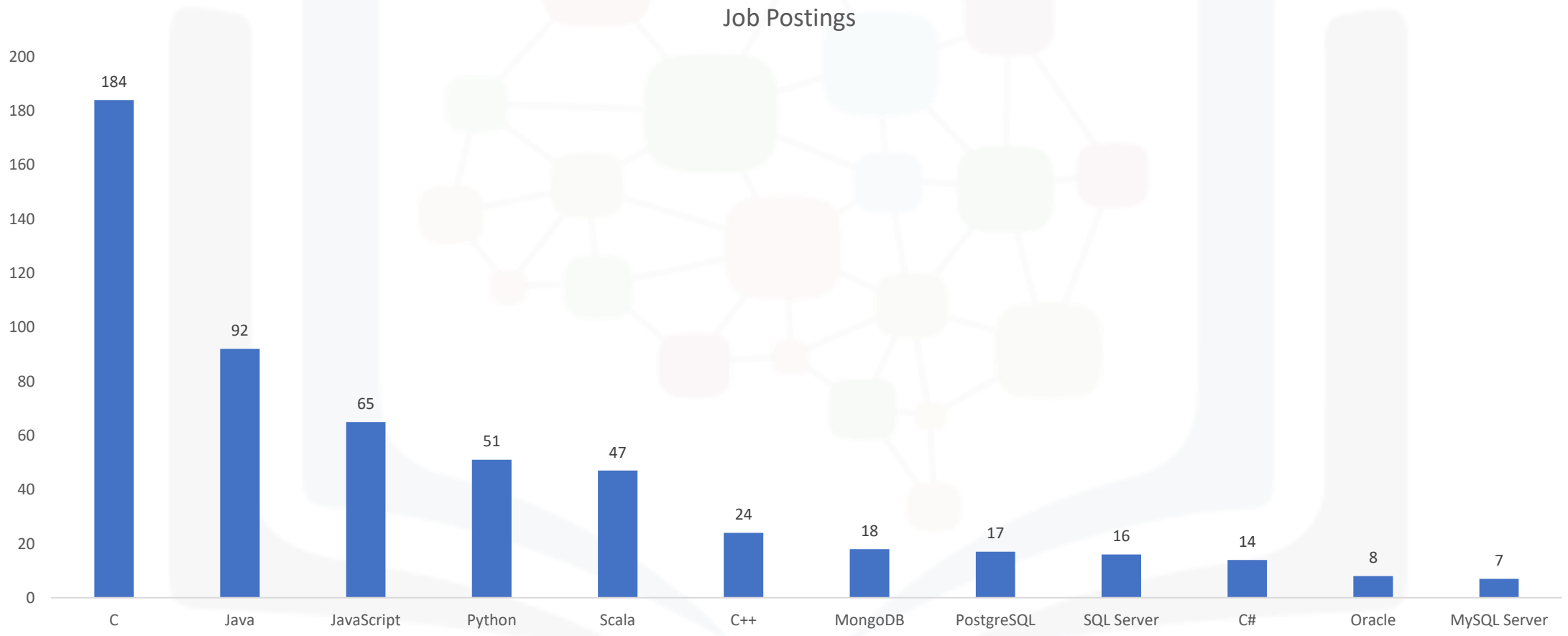
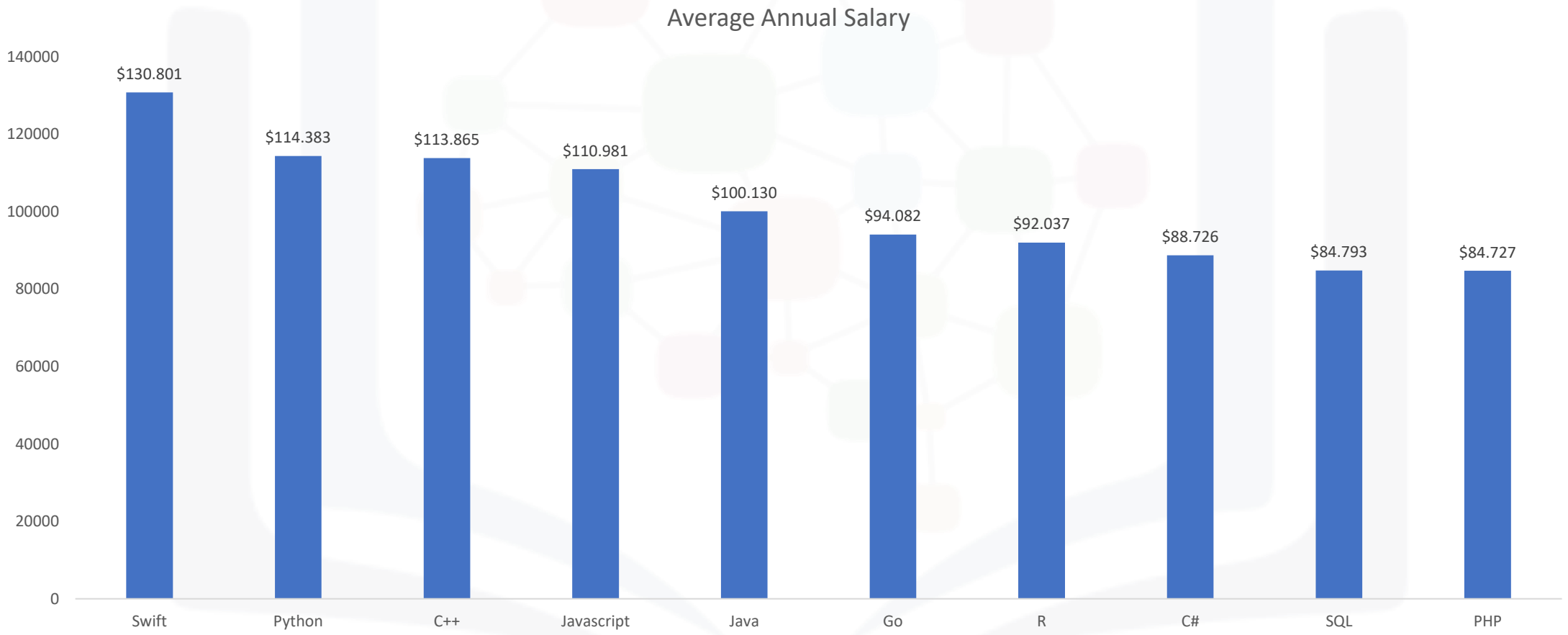
CONCLUSION

- Developers should learn JavaScript and TypeScript
- Developers should not invest too much time in C#
- Developers should learn PostgreSQL
- Developers should move away from Microsoft Server SQL and SQLite

APPENDIX

- The dataset comes from the following sources:
  - https://insights.stackoverflow.com/survey under a **ODbL: Open Database License**.
  - https://cf-courses-data.s3.us.cloud-object-storage.appdomain.cloud/IBM-DA0321EN-SkillsNetwork/labs/datasets/Programming_Languages.html
  - https://insights.stackoverflow.com/survey/2020 under a **ODbL: Open Database License**.
- We are using a modified subset of that dataset for the assignment

GITHUB JOB POSTINGS



POPULAR LANGUAGES