



# Technology Survey Analytics

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# OUTLINE

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

# EXECUTIVE SUMMARY

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- Majority of Current Employees in IT industry are Male
- JavaScript and HTML/CSS - Top 2 Languages
- PostgreSQL and MongoDB – Top upcoming databases
- Majority- Bachelor's Degree level of Education

# INTRODUCTION

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- Data taken from survey
- Which coding languages are most popular?
- Which databases are most popular?
- Which platforms and frameworks are most popular?
- Demographics of employees in IT

# METHODOLOGY

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- Data taken from survey
- Read into Pandas Dataframe
- Cleaned by :
  - Removing duplicates
  - Imputing Null values
  - Removing Outliers

Language Used: Python

# RESULTS

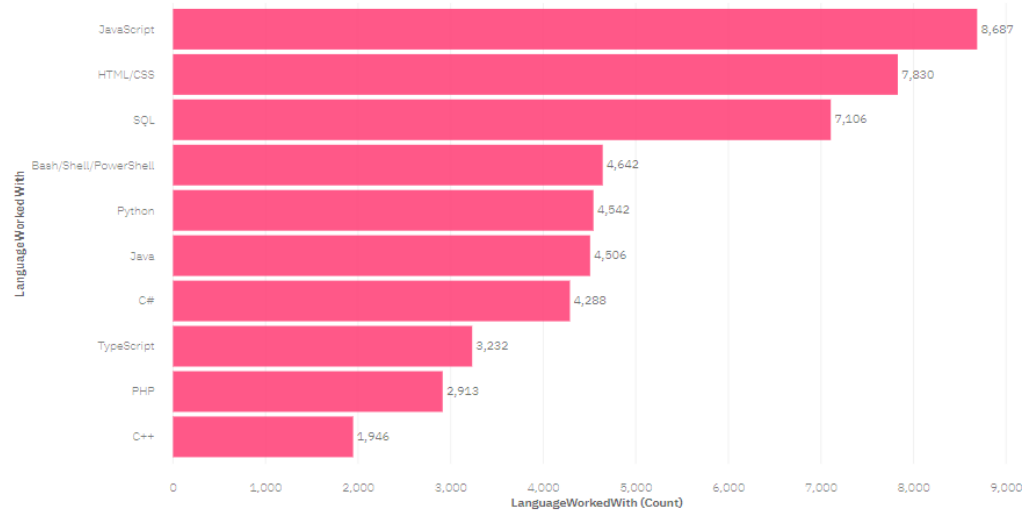
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# PROGRAMMING LANGUAGE TRENDS

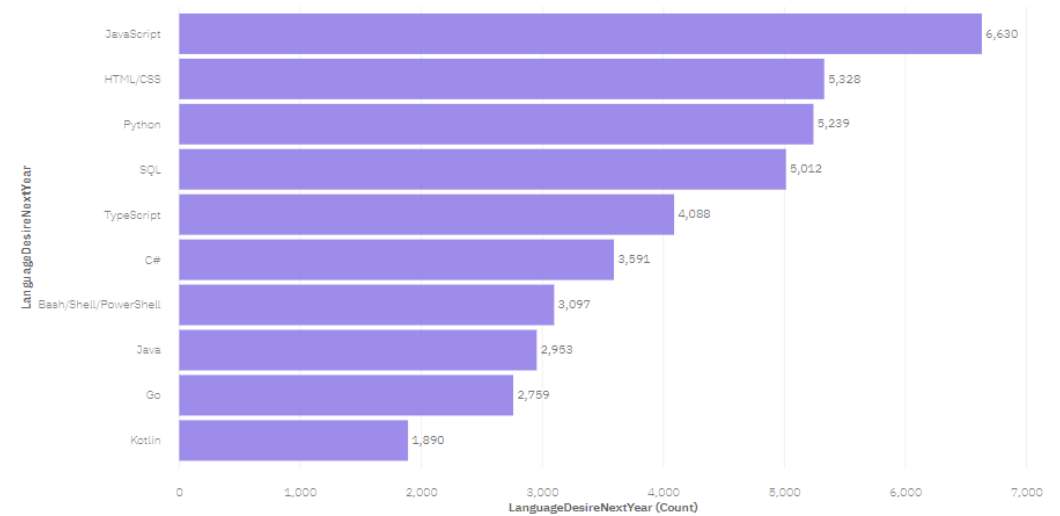
## Current Year

Top 10 Languages Worked With



## Next Year

Top 10 Languages Desired Next Year



# PROGRAMMING LANGUAGE TRENDS - FINDINGS & IMPLICATIONS

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## Findings

- JavaScript and HTML/CSS remain Top 2 Languages
- Python Overtook SQL as 3rd most popular
- C++ and PHP no longer top 10 desired

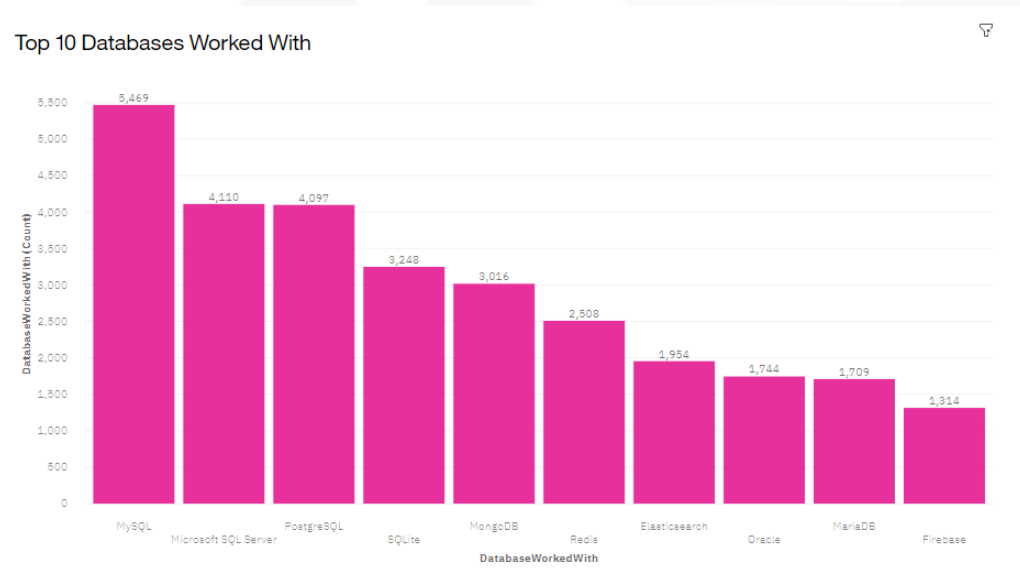
## Implications

- Web development is highly sought after
- C++ and PHP losing popularity
- Python gaining popularity

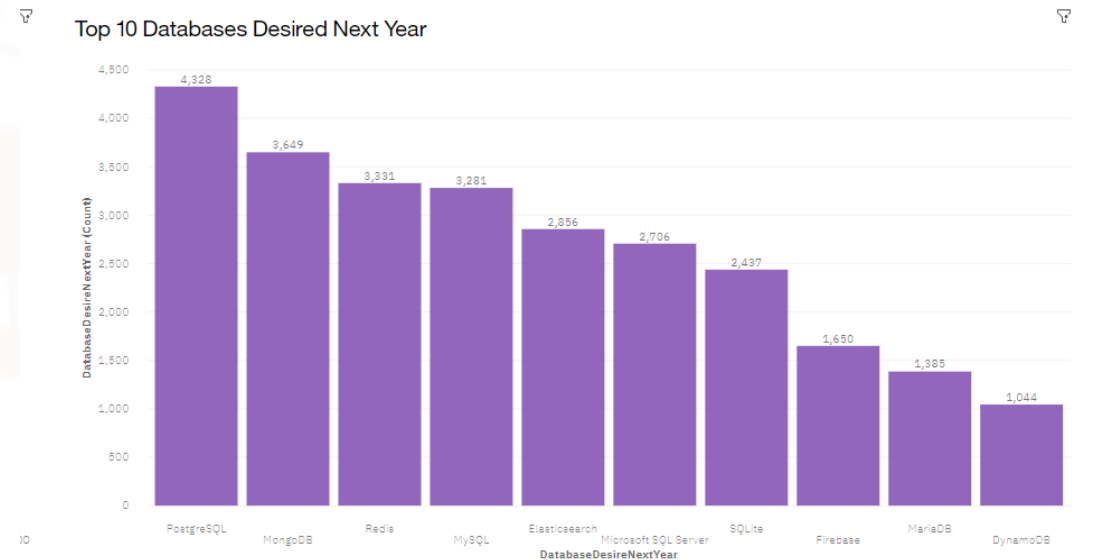


# DATABASE TRENDS

## Current Year



## Next Year



# DATABASE TRENDS - FINDINGS & IMPLICATIONS

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## Findings

- MySQL is current most popular database
- PostgreSQL, MongoDB and Redis overtake MySQL in future desired databases

## Implications

- Database popularities are fluctuating

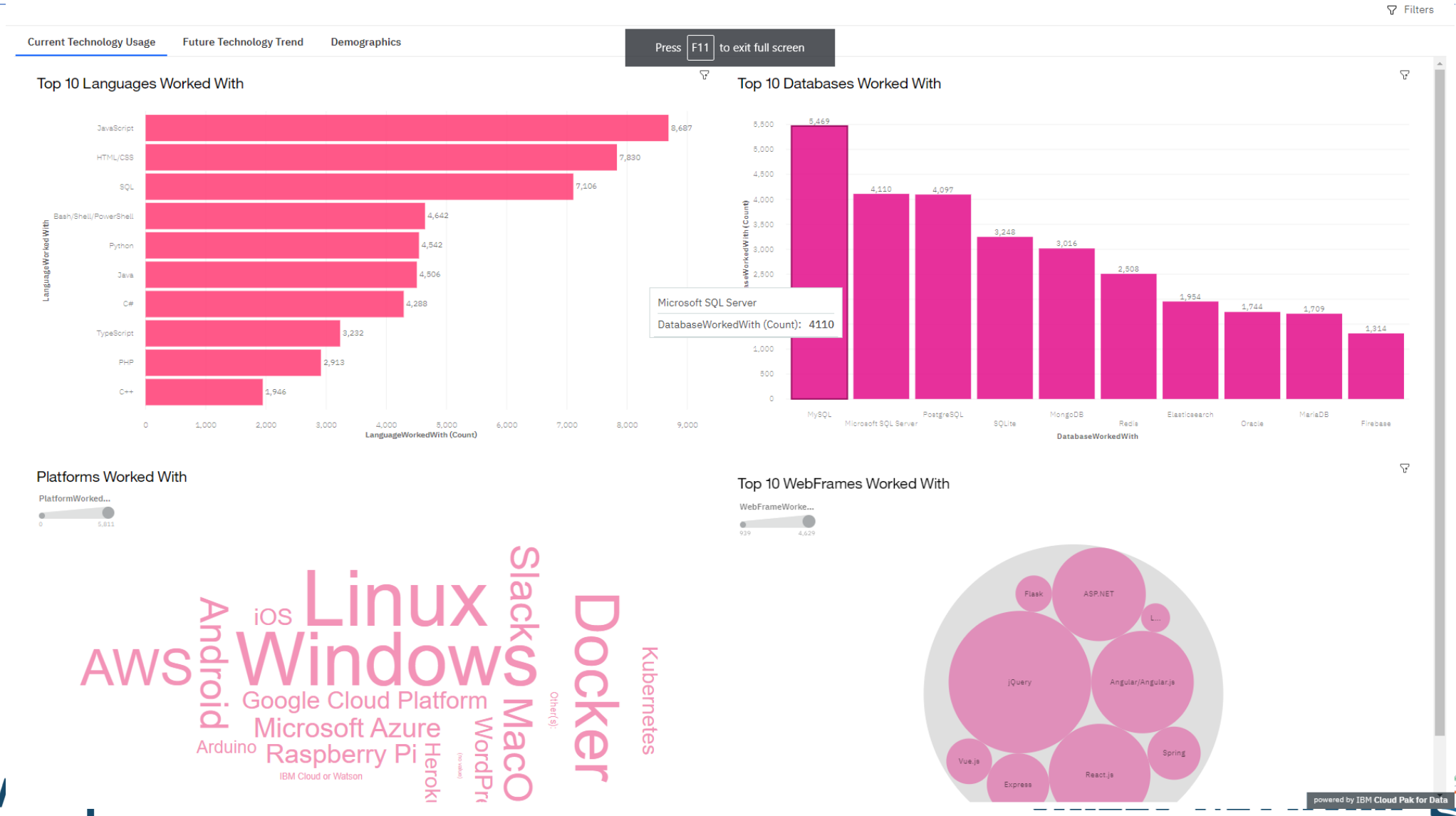
# DASHBOARD

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<https://eu-de.dataplatform.cloud.ibm.com/dashboards/e54396a1-9108-4283-add7-37fd5c544e5f/view/0604c908058908ce73f1bde407cf24577a30220ce6bb830181817b4907697997a96b14c5c82b1e08d3400064f5ef120d9c>

# DASHBOARD TAB 1



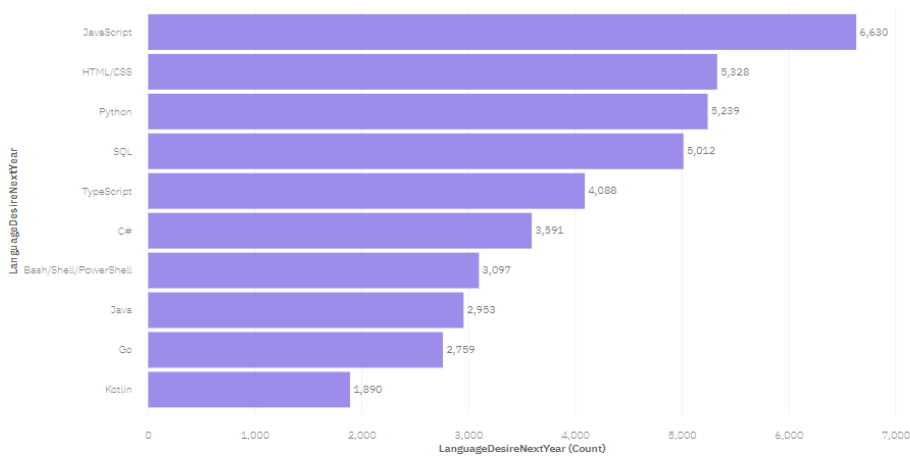
# DASHBOARD TAB 2

Current Technology Usage

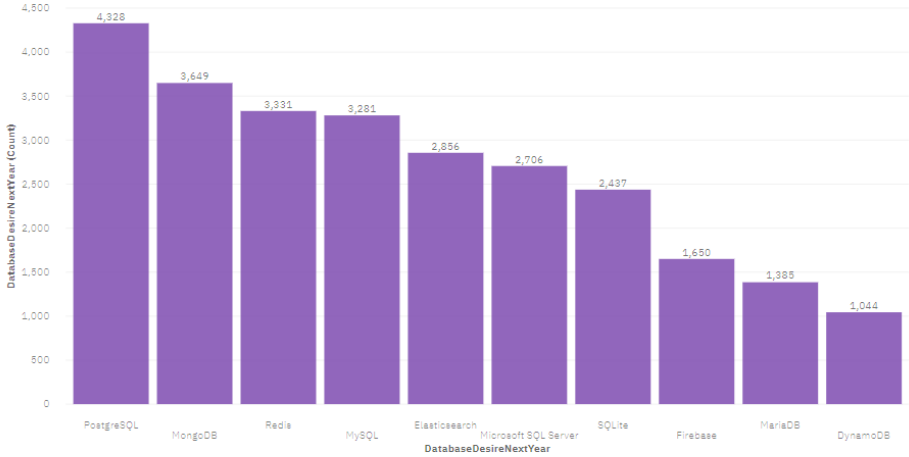
Future Technology Trend

Demographics

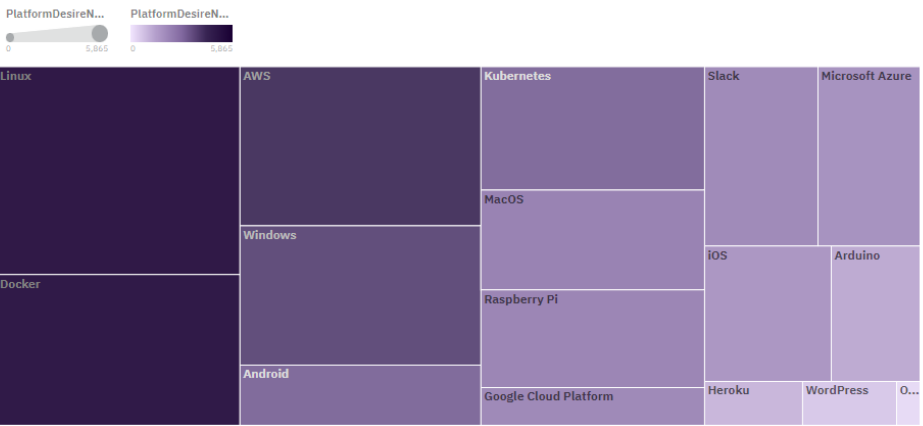
Top 10 Languages Desired Next Year



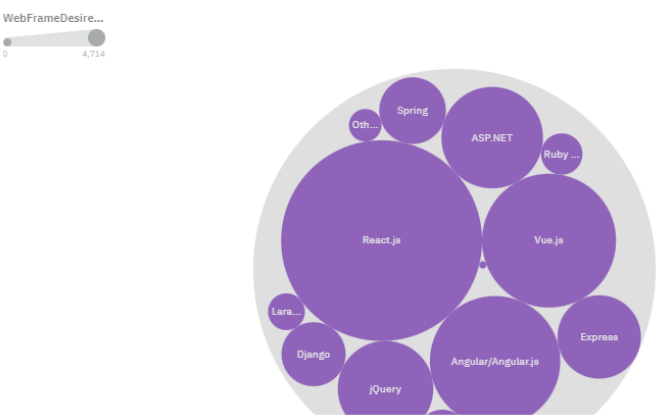
Top 10 Databases Desired Next Year



Tree Map of Platforms Desired Next Year



Top 10 WebFrames Desired Next Year



# DASHBOARD TAB 3

Filters

Current Technology Usage

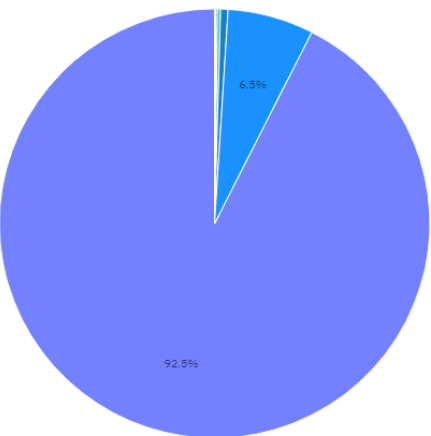
Future Technology Trend

Demographics

Press F11 to exit full screen

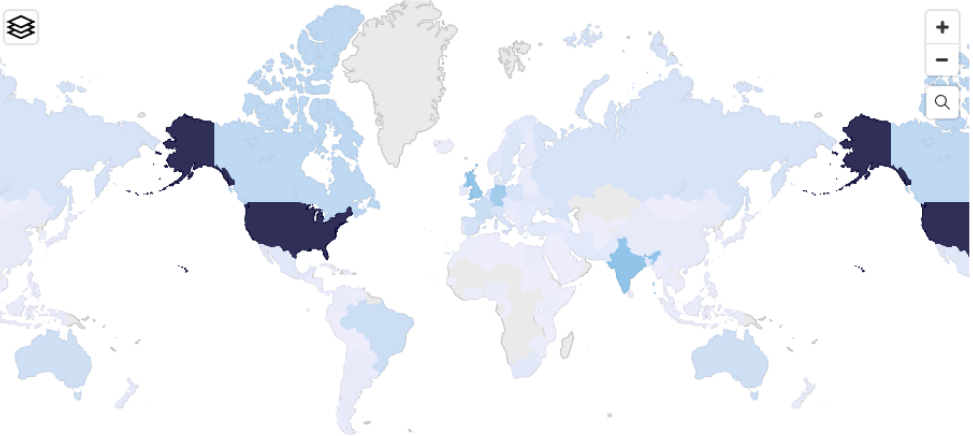
Respondent Classified by Gender

Gender  
(no value)  
Woman;Man;Non-binary, genderqueer, or g...  
Man;Non-binary, genderqueer, or g...  
Non-binary, genderqueer, or g...  
Woman  
Woman;Non-binary, genderqueer, or g...  
Man

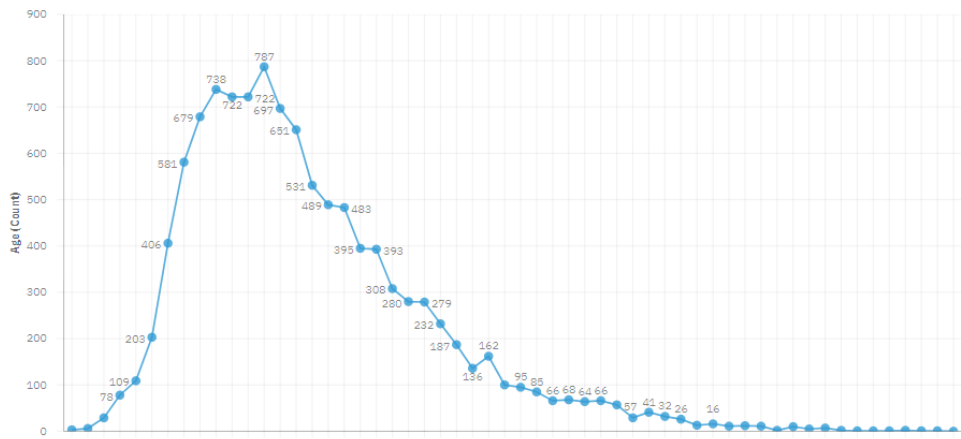


Respondent Count for Countries

Country (Count)  
1 3,127

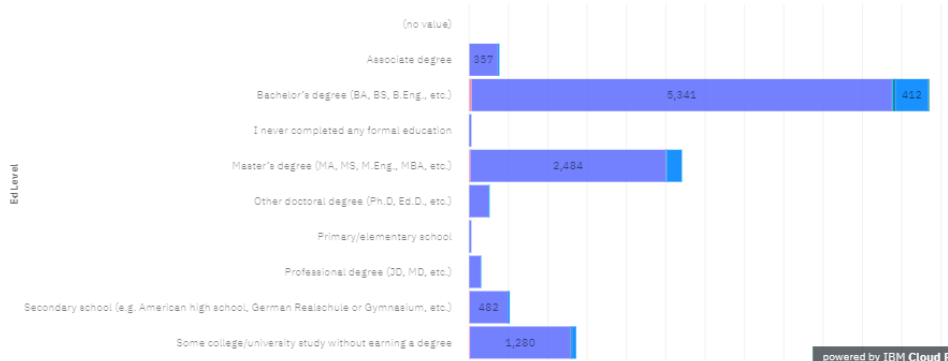


Respondent Count by Age



Respondent Count by Gender, classified by Formal Education Level

Gender  
(no value)  
Man  
Woman;Man  
Man;Non-binary, genderqueer, or g...  
Non-binary, genderqueer, or g...  
Woman;Man;Non-binary, genderqueer, or g...  
Woman;Non-binary, genderqueer, or g...



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# DISCUSSION

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- Web development is highly sought after
- C++ and PHP losing popularity as languages
- Python gaining popularity
- Database popularity fluctuating
- Males dominate the IT industry

# CONCLUSION

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- Web Development is a good skill to learn
- Don't spend too much time mastering one database
- Python is a good safe language to learn

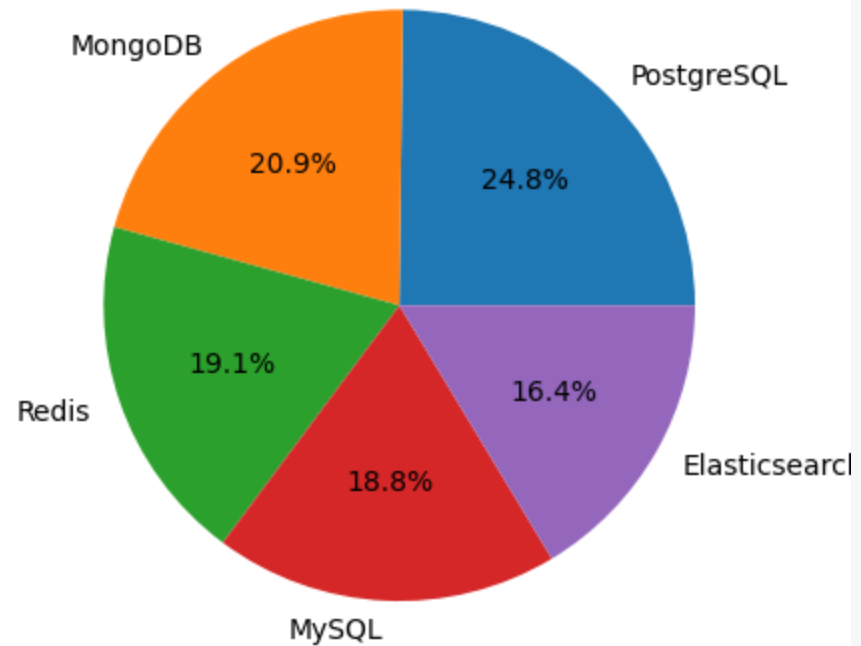


# APPENDIX

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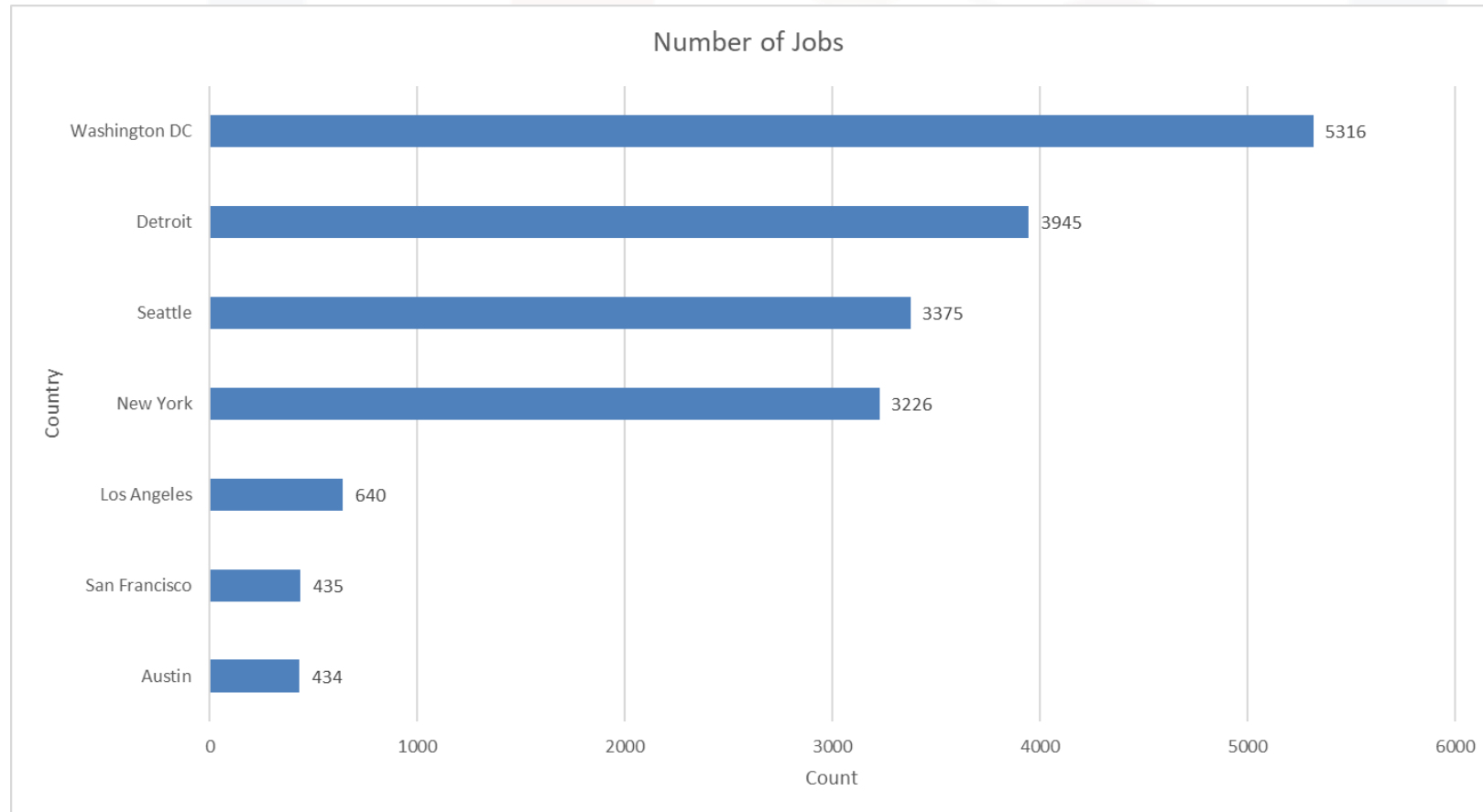


Top 5 Most popular Databases Used Currently



# JOB POSTINGS

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# POPULAR LANGUAGES

