Adal

02/ 2024

IBM Developer

SKILLS NETWORK
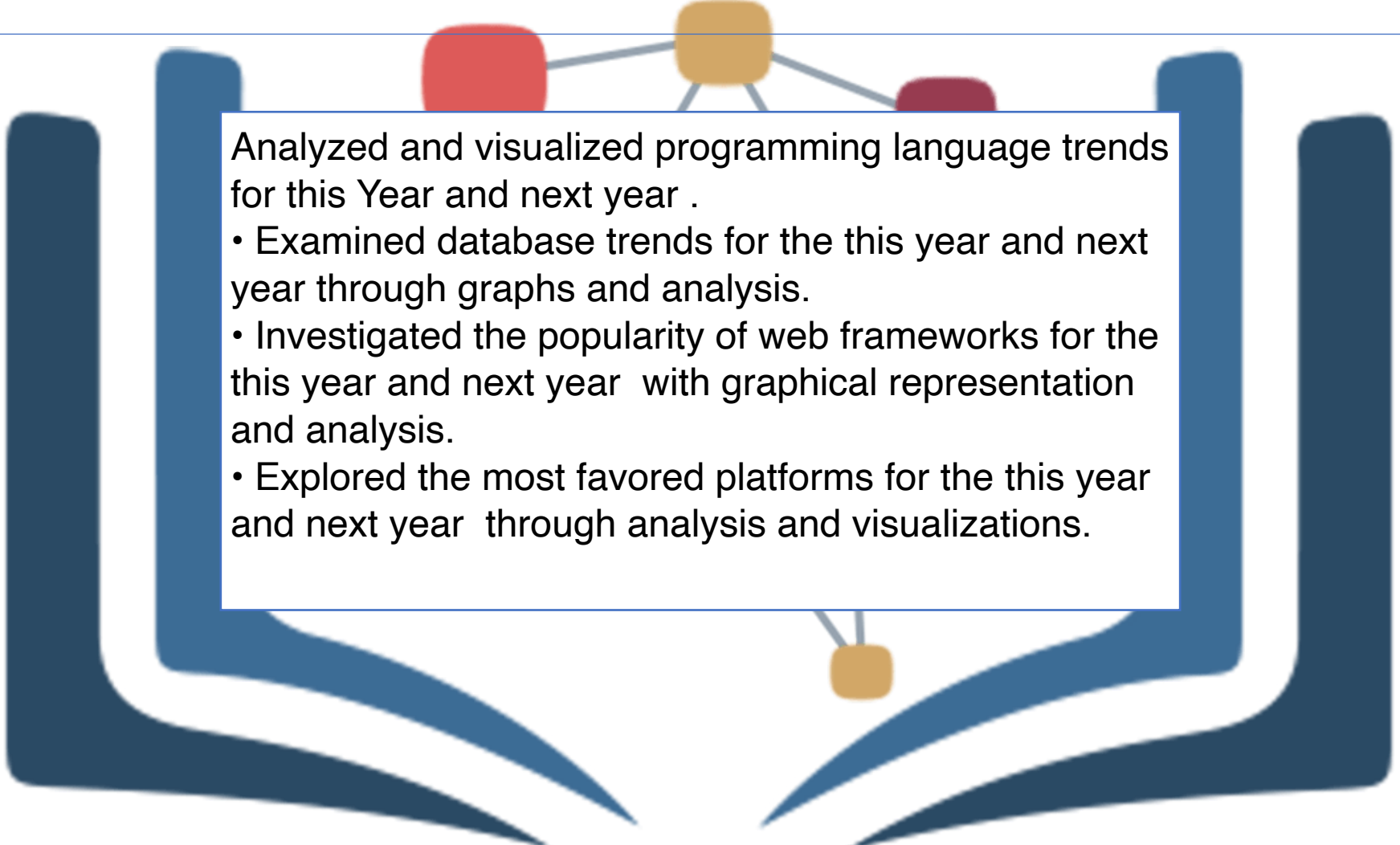
OUTLINE

IBM Developer

SKILLS NETWORK

EXECUTIVE SUMMARY

Analyzed and visualized programming language trends for this Year and next year .
• Examined database trends for the this year and next year through graphs and analysis.
• Investigated the popularity of web frameworks for the this year and next year with graphical representation and analysis.
• Explored the most favored platforms for the this year and next year through analysis and visualizations.

IBM **Developer**

SKILLS NETWORK

INTRODUCTION

database trends for the this year and next year through graphs and analysis.

the popularity of web frameworks for the this year and next year with graphical representation and analysis.

the most favored platforms for the this year and next year through analysis and visualizations.

METHODOLOGY

- Top 10 Language Worked With.

- Top 10 Database Worked With.

- Platform Worked With

- Top 10 Web Frame Worked With

- Respondent classified by Gender

- Respondent by Gender colored by EdLevel

IBM **Developer**
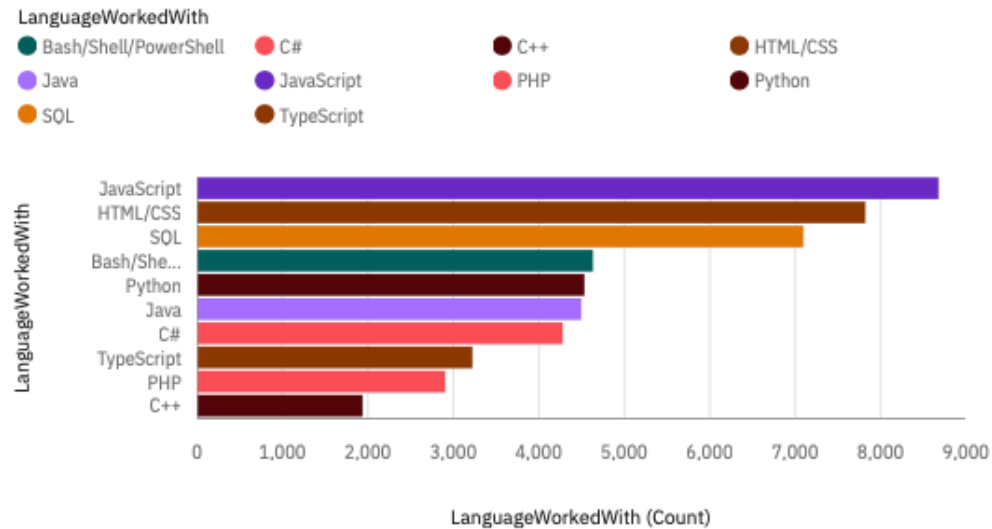
SKILLS NETWORK

RESULTS

the results include :
programming language trend
database trend
web frame trend
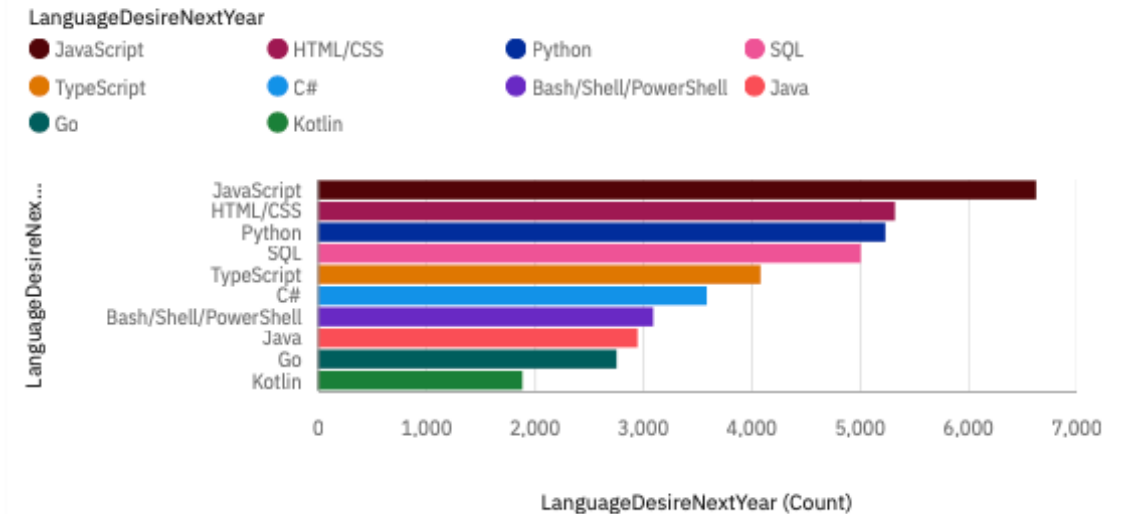the result for for this year and the next year

PROGRAMMING LANGUAGE TRENDS

Current Year

Next Year

Top 10 Language Worked With.

LanguageWorkedWith
- Bash/Shell/PowerShell
- C#
- C++
- HTML/CSS
- Java
- JavaScript
- PHP
- Python
- SQL
- TypeScript

Top 10 Language Desire Next Year.

LanguageDesireNextYear
- JavaScript
- HTML/CSS
- Python
- SQL
- TypeScript
- C#
- Bash/Shell/PowerShell
- Java
- Go
- Kotlin

7

PROGRAMMING LANGUAGE TRENDS - FINDINGS & IMPLICATIONS

Findings

- Javascript, HTML/CSS and SQL are the top programming languages in the present and the future.

- Python are the most used programming languages currently

- SQL still in the top five programming language in this year and in the next year

- Typescript and C# are making progress as the top programming language in this year and in the next year

Implications

- The programming languages for Web Application Development become more important in present and the future.

- python programming is popularity .

- SQL is the most common used language for data analysts and data scientists
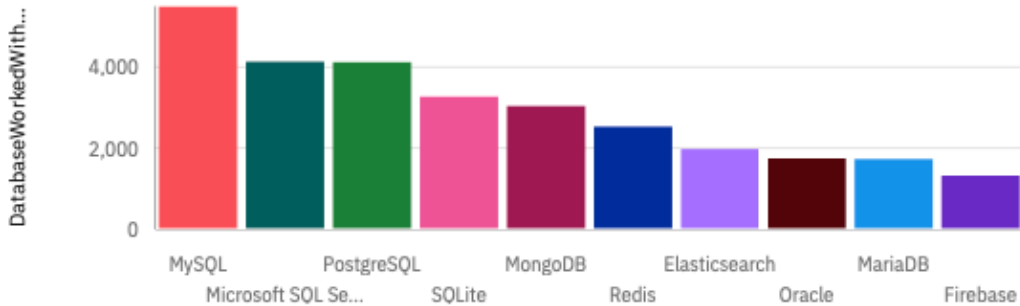
- C# has become more popular than C++

IBM Developer

SKILLS NETWORK

DATABASE TRENDS

Current Year

Next Year

Top 10 Database Worked With.

DatabaseWorkedWith
- Elasticsearch
- Firebase
- MariaDB
- Microsoft SQL Server
- MongoDB
- MySQL
- Oracle
- PostgreSQL
- Redis
- SQLite

Top 10 Database Desire Next Year

DatabaseDesireNextYear
- DynamoDB
- Elasticsearch
- Firebase
- MariaDB
- Microsoft SQL Server
- MongoDB
- MySQL
- PostgreSQL
- Redis
- SQLite

DATABASE TRENDS - FINDINGS & IMPLICATIONS

Findings

- PostgreSQL ,MySQL, Microsoft SQL server and SQLite are in the Top ten databases in this year and in the next year.

- MongoDB, Redis, and Elasticsearch are among the top five databases in the future.

- Oracle remove from the top ten of databases next year.

Implications

- We notice that the SQL database is still maintaining its popularity.

- Open source databases are becoming more popular in the future.

- Oracle become less popular than before

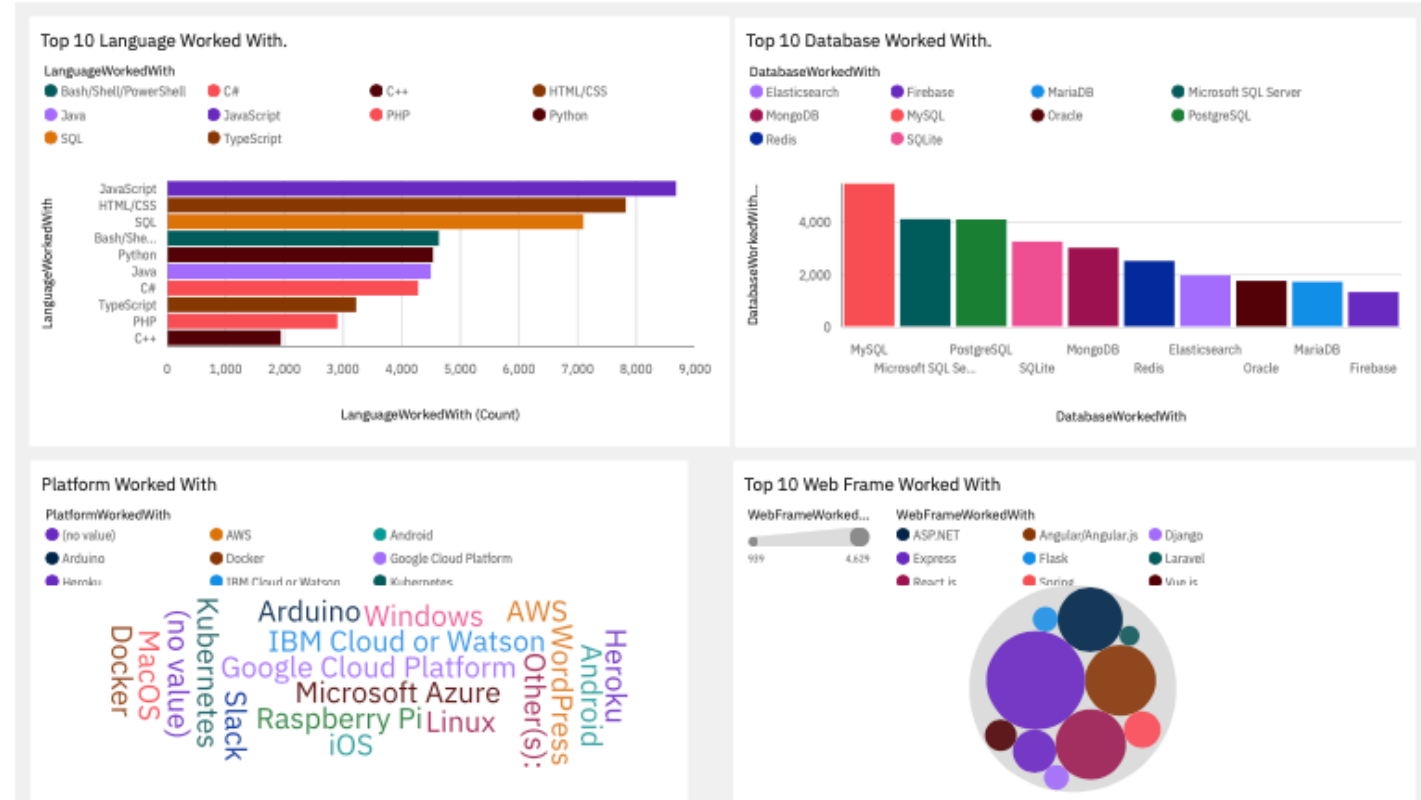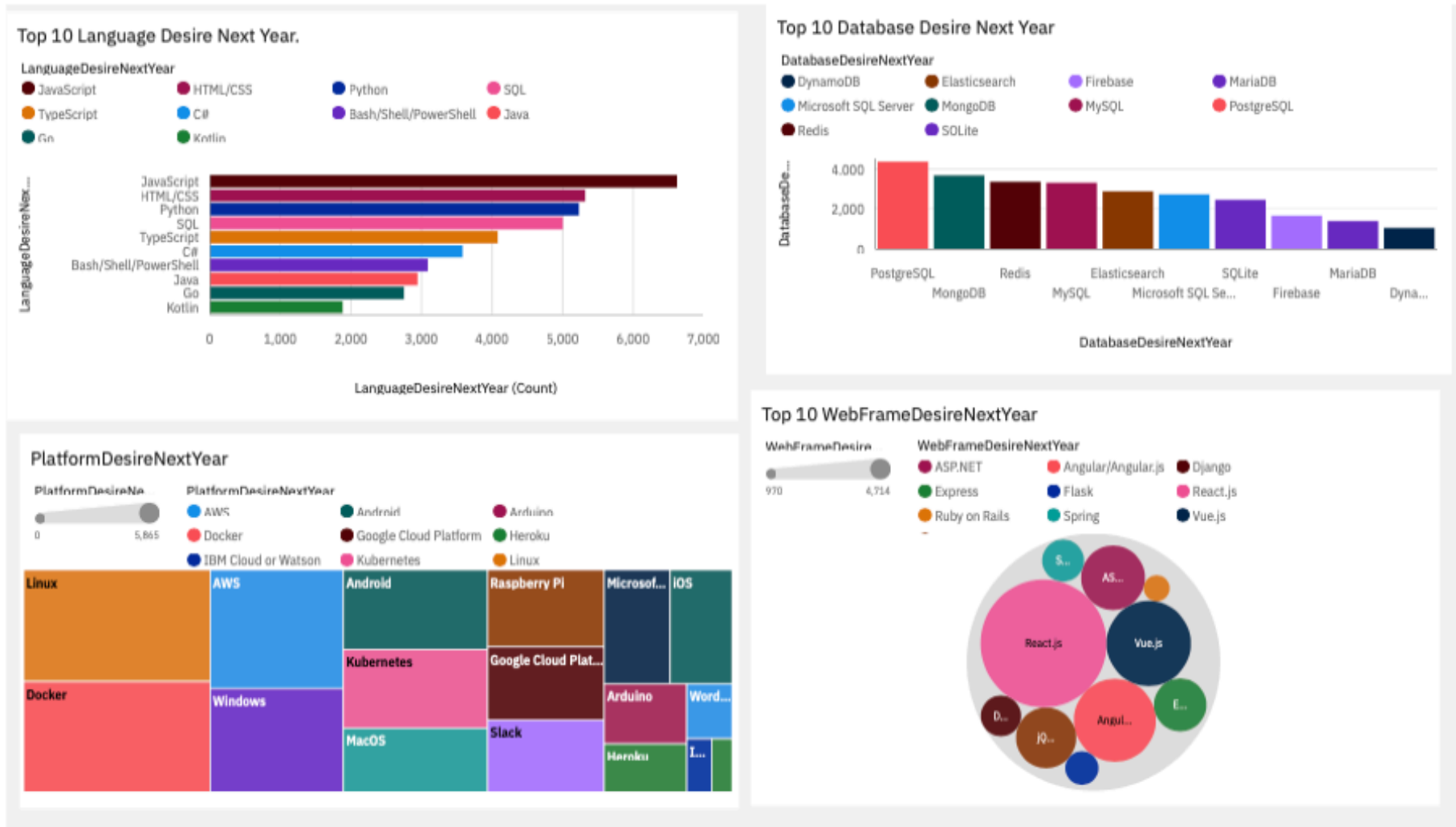- Technology is advancing very fast

DASHBOARD

https://us3.ca.analytics.ibm.com/bi/?
perspective=dashboard&pathRef=.my_folders%2FFuture%2BTec
hnology%2BTrend.&action=view&mode=dashboard&subView=m
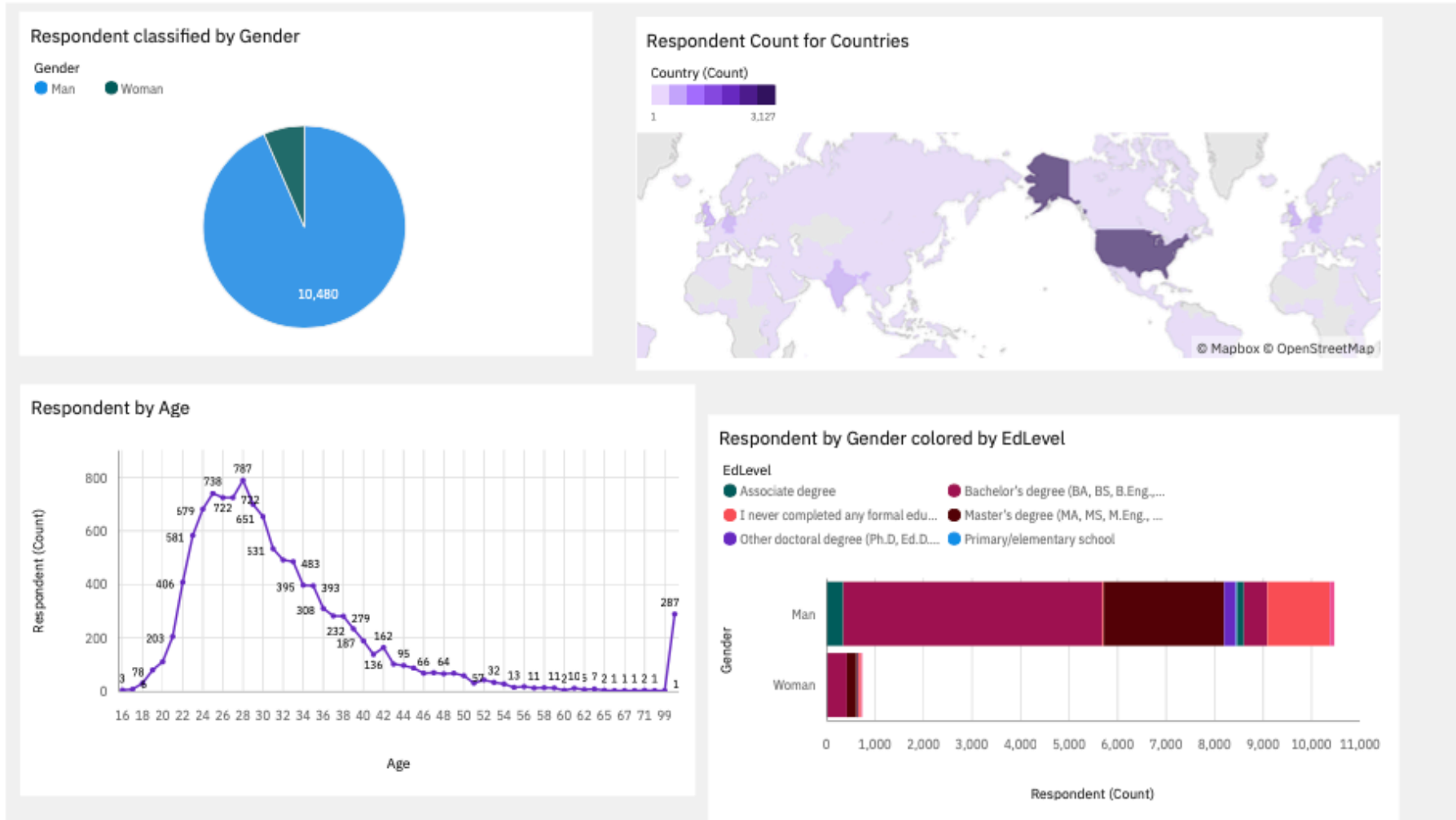odel0000018db8754b1d_00000002

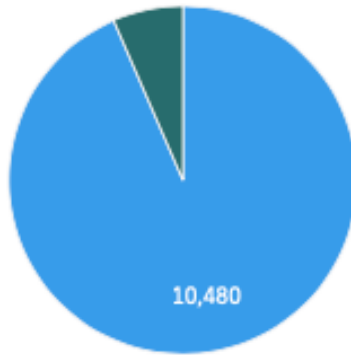# DASHBOARD TAB 1

DASHBOARD TAB 2

DASHBOARD TAB 3

DISCUSSION

How to bridge the large gap in this analytics ?

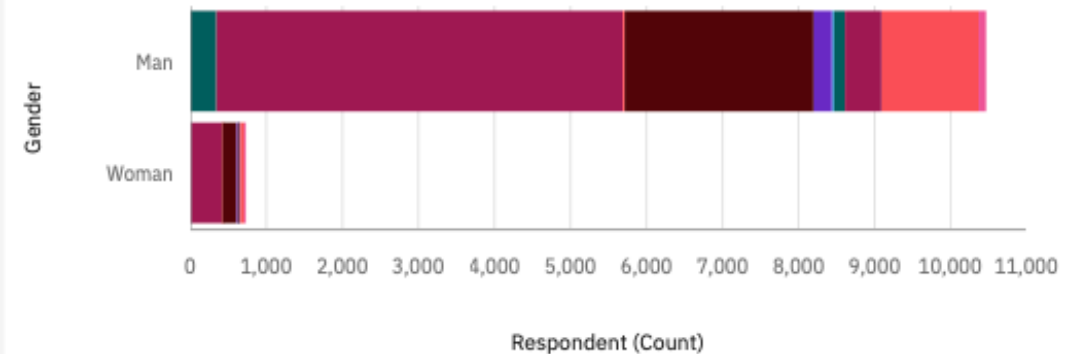Is a masters degree and doctorate degree important ?

Respondent classified by Gender

Gender
- Man
- Woman

10,480

Respondent by Gender colored by EdLevel

EdLevel
- Associate degree
- I never completed any formal edu...
- Other doctoral degree (Ph.D, Ed.D...
- Bachelor's degree (BA, BS, B.Eng.,...
- Master's degree (MA, MS, M.Eng., ...
- Primary/elementary school

Gender: Man, Woman

Respondent (Count): 0, 1,000, 2,000, 3,000, 4,000, 5,000, 6,000, 7,000, 8,000, 9,000, 10,000, 11,000

OVERALL FINDINGS & IMPLICATIONS

Findings

- Python are the most used programming languages currently
- SQL still in the top five programming language in this year and in the next year
- MongoDB, Redis, and Elasticsearch are among the top five databases in the future.

Implications

- C# has become more popular than C++
- Open source databases are becoming more popular in the future.
- Men are more interested than women in technology
- The majority of individuals in the IT field hold a Bachelor's degree followed by a Doctorate.

CONCLUSION

- Technology grow fast and the trends keep changing faster , knowledge is important by taking courses and update information

IBM **Developer**

SKILLS NETWORK

APPENDIX

Respondent by Age