



Trends (Database And Language)

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EXECUTIVE SUMMARY



- In the world of technology today, a lot of things are evolving. That includes solutions, the applications on which solutions are built and the frameworks through which data is being kept.
- Needless to say is the importance of security and acceptance of these solutions largely depending on:
 - Programming Language
 - Web Framework
 - Database.
- As the end of this analysis, we are going to be able to point out the likely programming language, web framework and database for the coming year.

INTRODUCTION



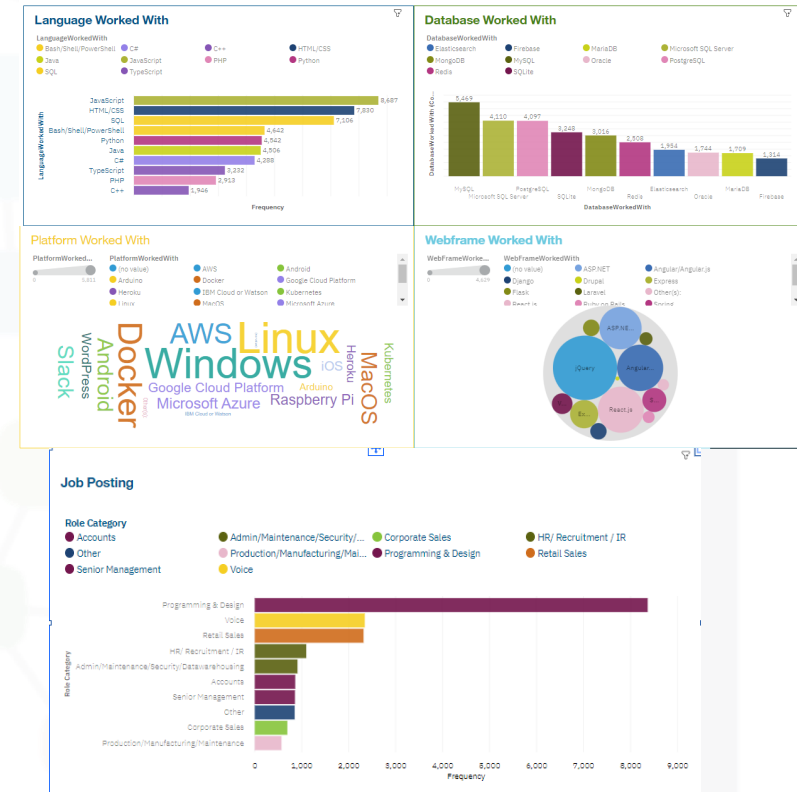
- The nature of analysis here is such that we consider sets of data from a database that has a lot of information with respect to the concerned problem (comparing on different scales).
- We already know that evolution is at a fast pace, we therefore would like to understand how we can move with trend especially the impact of our work tools in the nearest future.
- 1. We would like to know how certain variables relates.
- 2. The trend of respondents by age.
- 3. Top 10 programming languages.

METHODOLOGY



- The data for this purpose was sought from <https://www.kaggle.com/kyanyoga/sample-sales-data> where it's usually used for segmentation, customer analytics, clustering and much more.
- The plan is to analyse based on the questions below:
 - 1. Check for the highest paid programming language.
 - 2. Check for the most widely used database.
 - 2. Regional Demographics and where this data in particular speaks to the most.

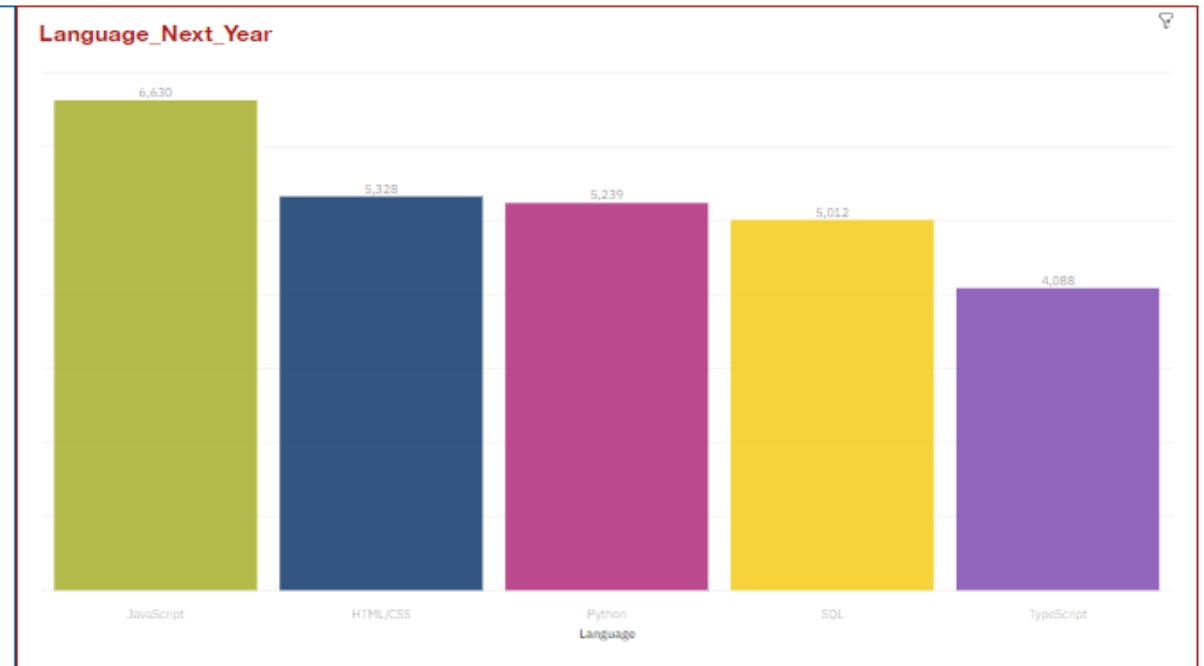
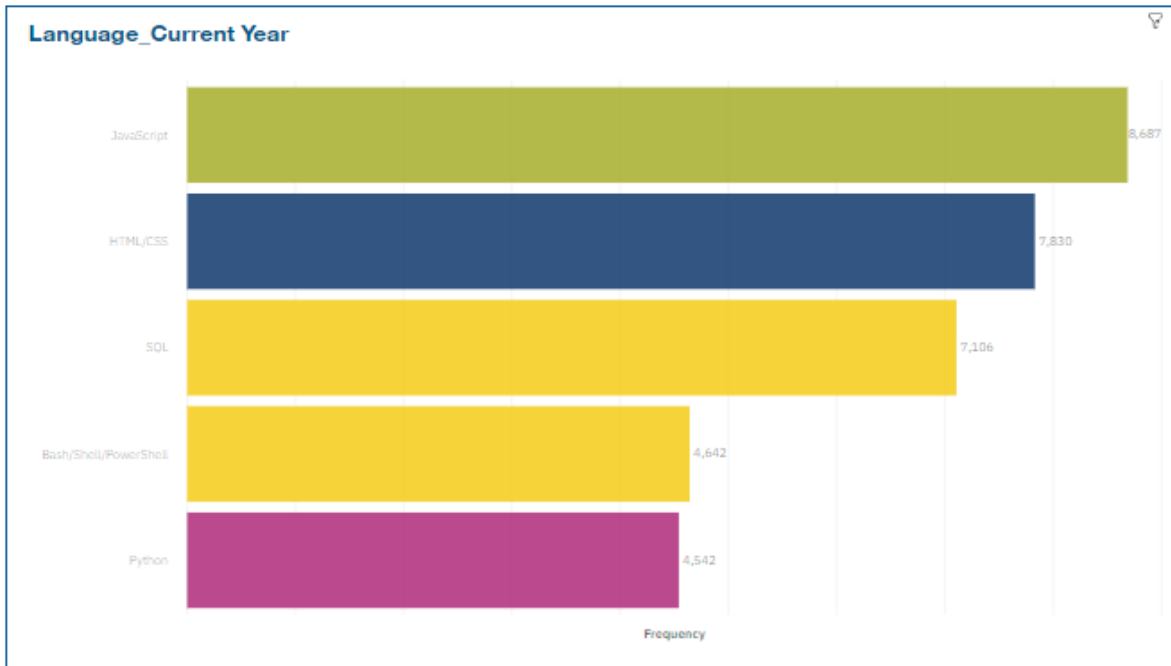
RESULTS



PROGRAMMING LANGUAGE TRENDS

TOP 5 Programming Language Current Year

TOP 5 Programming Language Next Year



PROGRAMMING LANGUAGE TRENDS - FINDINGS & IMPLICATIONS

Findings

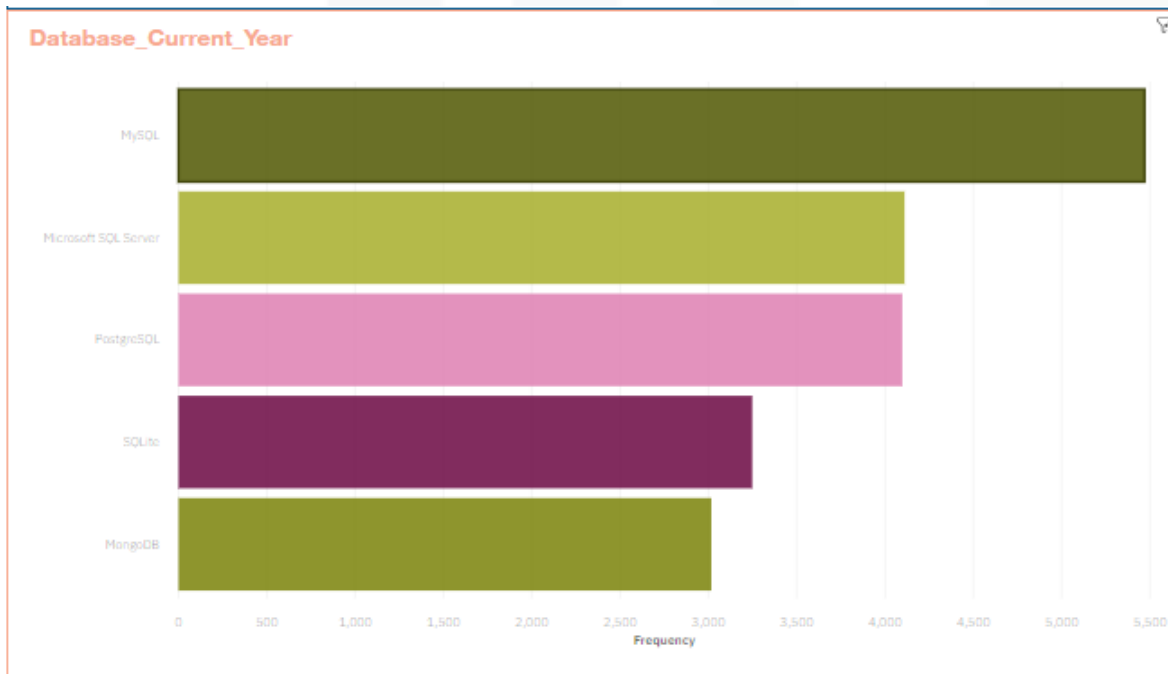
- The top programming language currently in use is Java Script, HTML/CSS, SQL, Bash / Shell and Python.
- A lot of the technologies currently created are from these top languages.
- In the coming year, there is likely going to be a shift as a result of python programmers moving up, SQL dropping and TypeScript programmers coming on board.
- Shell is also likely to be dropped.

Implications

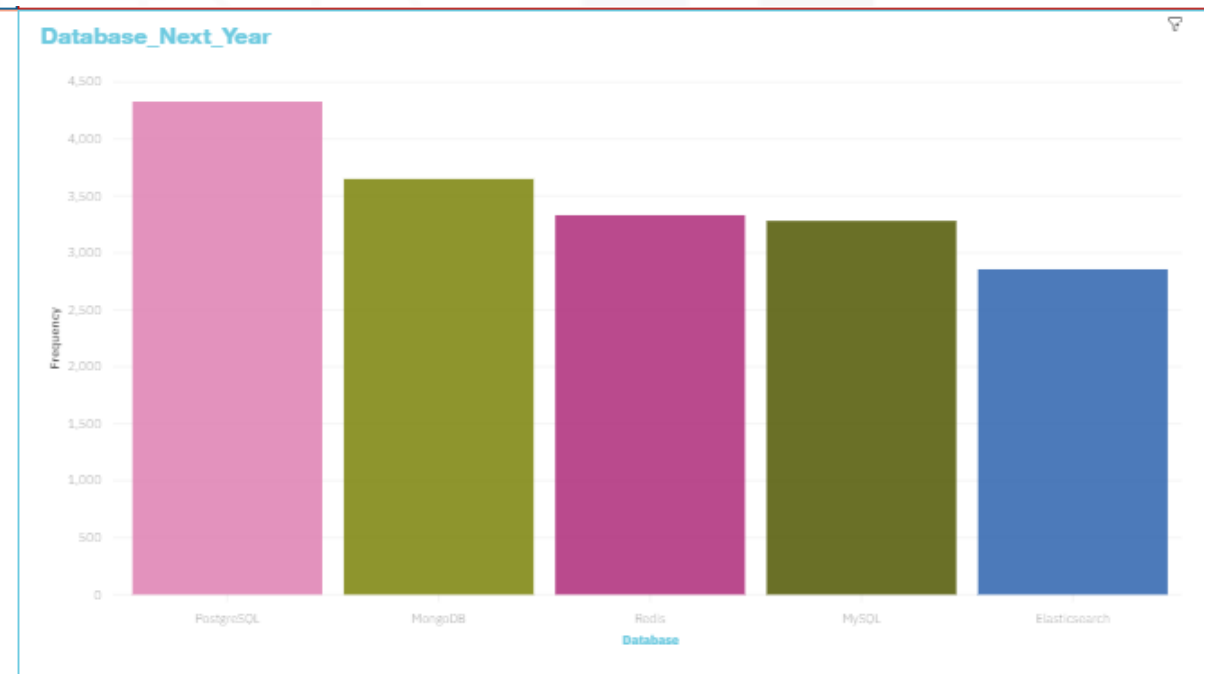
- What ever technology or platforms we are buying into should be in the space of the top 5 as stated else we might not be in trend over time.
- Those we are hiring should also be in the top 5, though considering the likely salary expectations as well, else our solution might become less needed, and security might be at great risk.
- If we do not gradually take these things into consideration, we might lose market phase and become obsolete over time.

DATABASE TRENDS

Current Year



Next Year



DATABASE TRENDS - FINDINGS & IMPLICATIONS

Findings

- The top Database currently in use is MYSQL, SQL Server, PostGre, SQLite and MongoDB.
- A lot of the Databases currently in use are from these top 5 database.
- In the coming year, there is likely going to be a shift as a result of SQL Server dropping and MongoDB and others moving up.
- Redis and Elastic Search coming onboard.

Implications

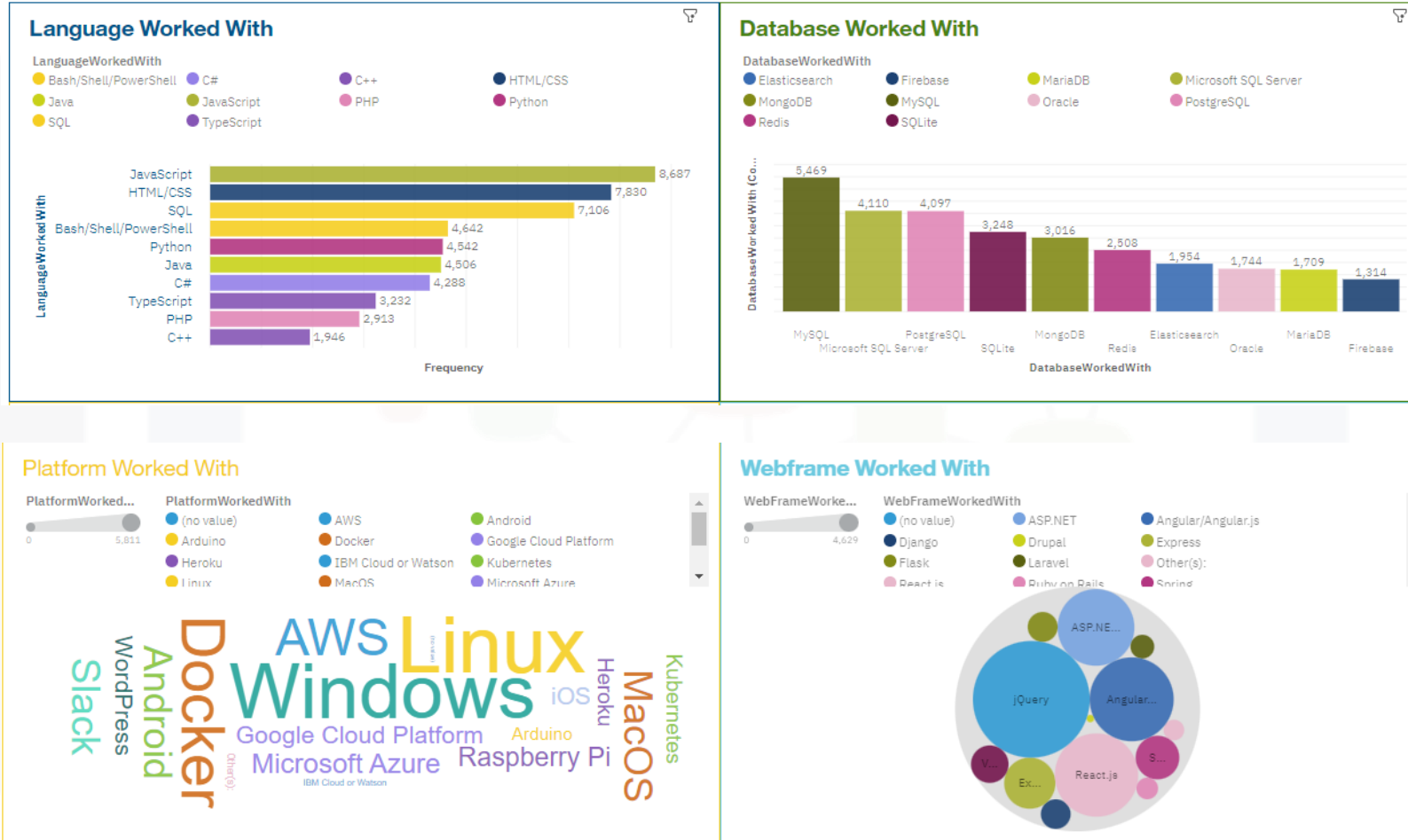
- What ever Database or platforms we are buying into should be in the space of the top 5 (Postgre, MongoDB, Redis, MYSql and Elastic Search) as stated else we might not be in trend over time.
- Those we are hiring should also be in the top 5, though considering the likely salary expectations as well, else our solution might become less needed.
- If we do not gradually take these things into consideration, we might lose market phase and become obsolete over time.

DASHBOARD



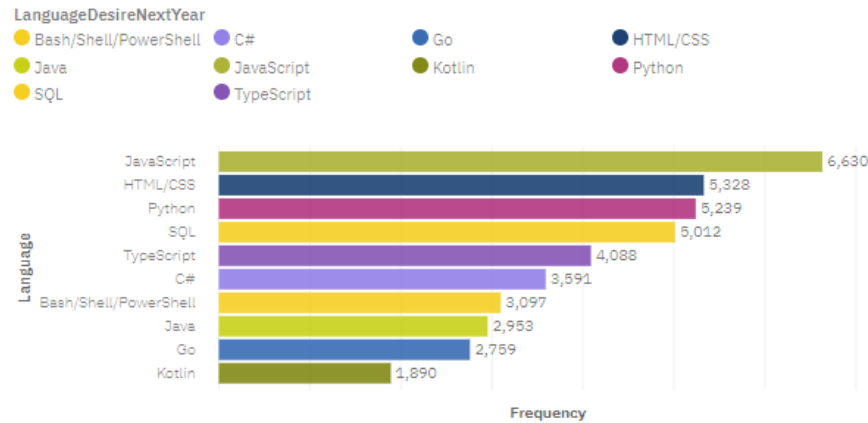
IBM Cloud Pak for Data

Current Technology Usage

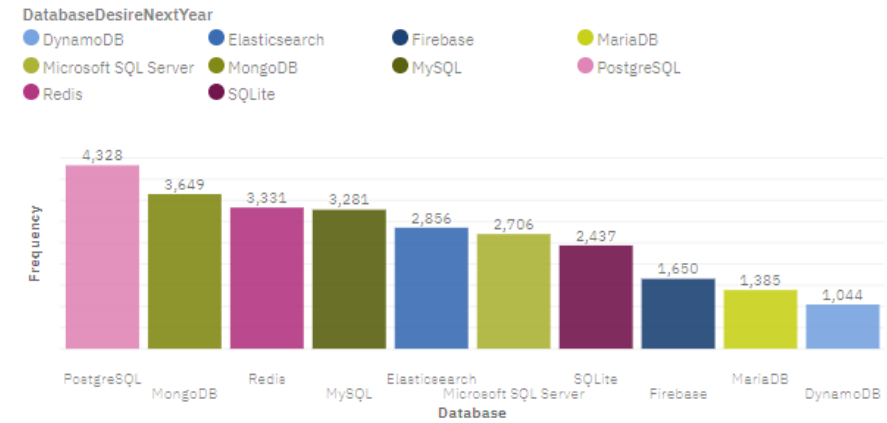


Future Technology Trend

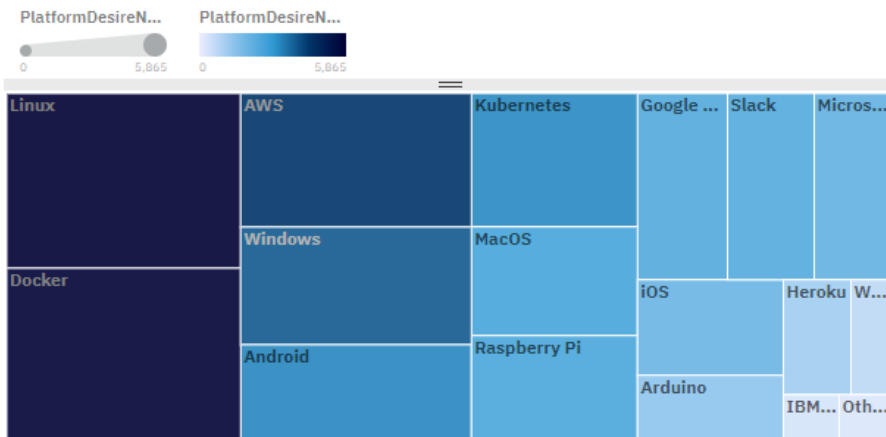
Future Language Desire



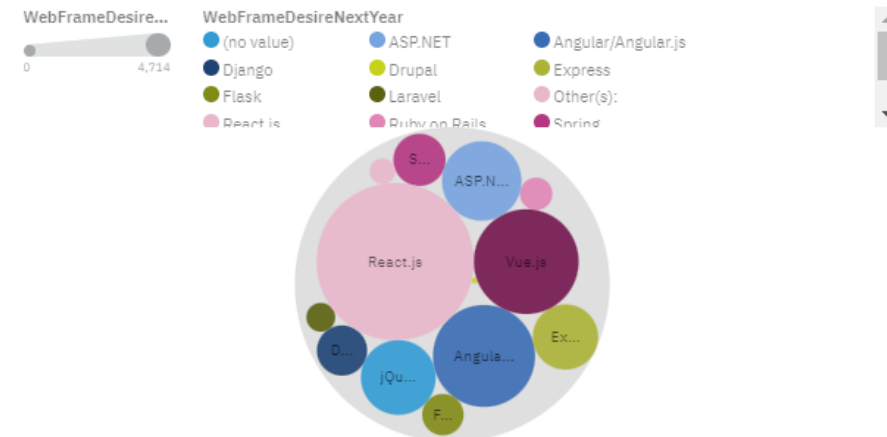
Future Database



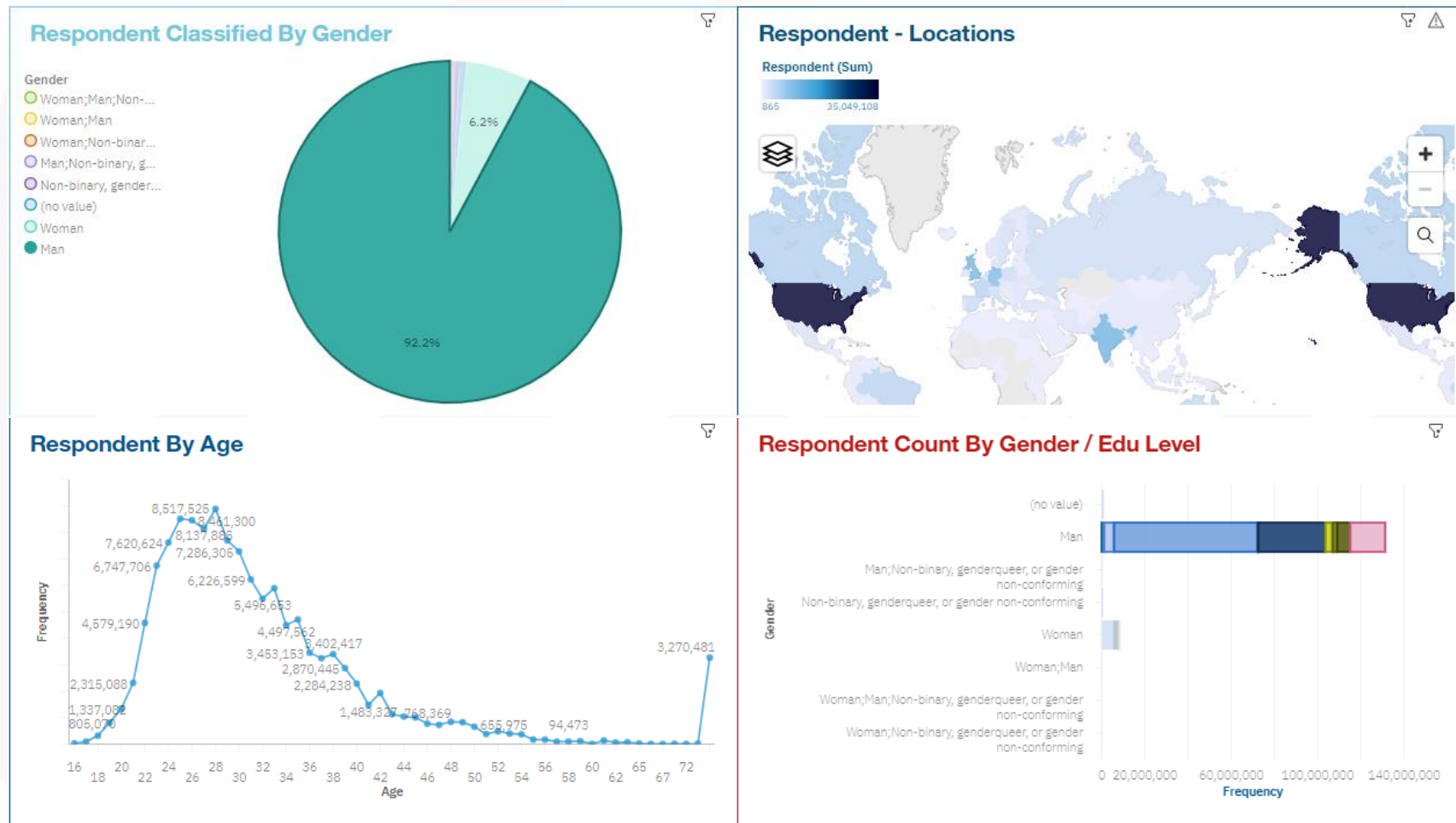
Future Platform



Future Webframe Desire



Demographics



DISCUSSION



- What do you think will happen if we do not follow through based on the information from this analysis?
- What do you think that a trending firm / body would always do to keep in form?

OVERALL FINDINGS & IMPLICATIONS

Findings

- There is a considerable shift In the use of programming languages based on trend and demands for certain kinds of solution.
- There is a need to constantly get data, it's use to definitely be abreast of most requested solutions and tools that solves the problems more efficiently.

Implications

- We are at risk of losing the market if we do not consider trends, and the risks are as listed but not limited to:
 - 1. Good will.
 - 2. Loss of market share.
 - 3. Customer trust.

CONCLUSION

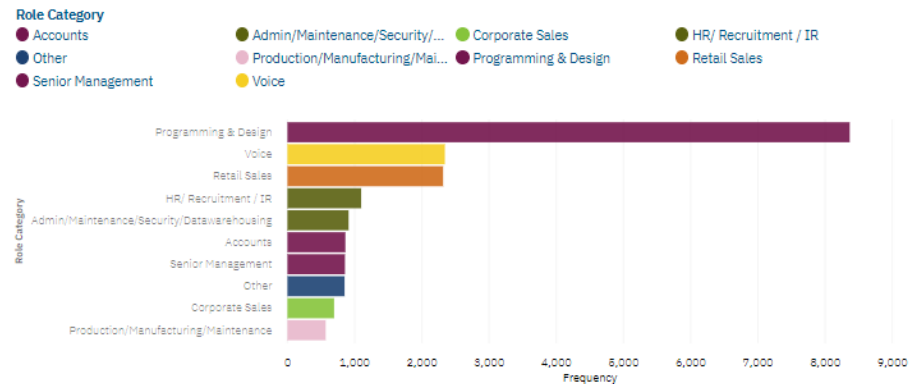


- Finding the trend in programming languages and Database across a demographic location.
- There is a considerable shift In the use of programming languages based on trend and demands for certain kinds of solution.
- There is a need to constantly get data, it's use to definitely be abreast of most requested solutions and tools that solves the problems more efficiently.

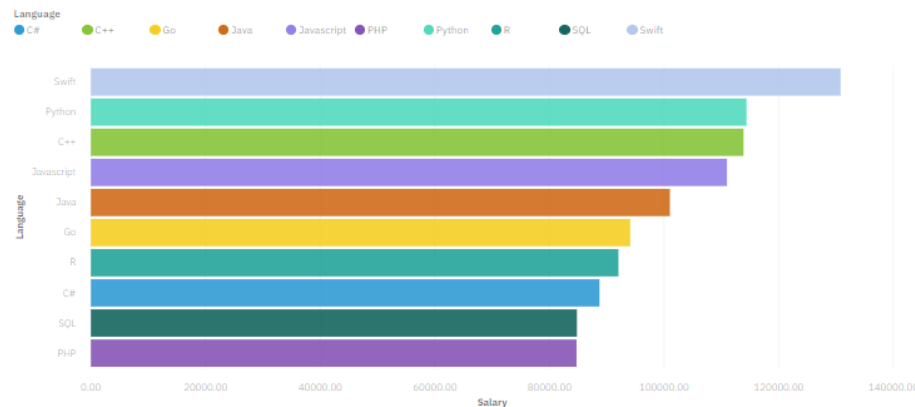
APPENDIX



Job Posting



Language by Salary



JOB POSTINGS

In Module 1 you have collected the job posti

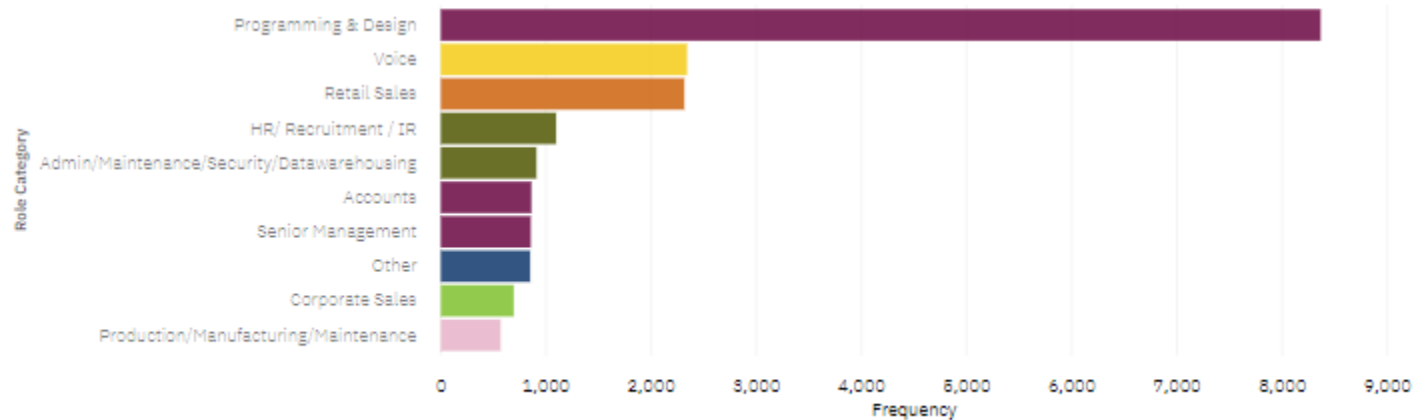
Job Posting

Role Category

- Accounts
- Other
- Senior Management

- Admin/Maintenance/Security/...
- Production/Manufacturing/Mai...
- Voice

- Corporate Sales
- HR/ Recruitment / IR
- Programming & Design
- Retail Sales



POPULAR LANGUAGES

Ordered bar chart in the descending order of salary.

