

FINAL ASSIGNMENT

Presented by Patrick Gateretse

July, 18th 2024

Executive Summary



**AFTER COLLECTING DATA,
THEY HAVE TO BE
CLEANED AND THEN
ORGANIZED. THE LAST
TASK IS TO PRESENT
FINDINGS THROUGH
VISUALIZATION.**



**WE HAVE ANALYZED DATA
IN THE PREVIOUS
MODULE, DASHBOARD
HAS BEEN CREATED.
STORYTELLING IS
CREATED TO CLARIFY
ANALYSIS.**



**DASHBOARDING WITH
IBM COGNOS ANALYTICS
AND GOOGLE LOOKER
STUDIO HAVE BEEN USED
TO CREATE
VISUALIZATION**

Table of Content

Dashboard components

Current Technology Usage Tab

1. Top 10 Language: visualize the top 10 languages respondents have worked with and the top 10 languages respondent desire next Year
2. Top 10 Databases: visualize the top 10 databases respondents have worked with and the top 10 databases respondents need to learn next Year

Introduction

Dashboard need to be explained by storytelling in order to clearly understanding by audience.

Dashboarding is to create a compelling story of analysis.

Present findings using visualization.

Present analysis.

Sometimes, the dashboard misses clear storytelling. As a consequence, the audience feels confused about understanding the findings report.

Methodology

In this presentation, data has been collected from https://cf-courses-data.s3.us.cloud-object-storage.appdomain.cloud/IBM-DA0321EN-SkillsNetwork/LargeData/m5_survey_data_demographics.csv and https://cf-courses-data.s3.us.cloud-object-storage.appdomain.cloud/IBM-DA0321EN-SkillsNetwork/LargeData/m5_survey_data_technologies_normalised.csv

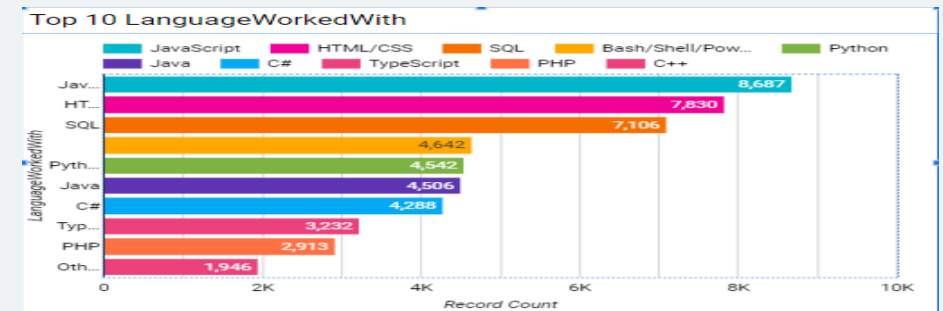
They have been cleaned and then organized to be used in finding reports. Charts and Dashboarding are chosen in presenting the findings report.



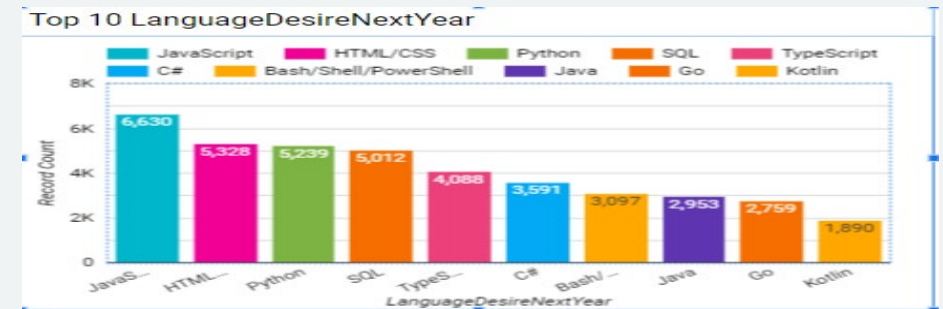
RESULTS

Programming Language Trends

TOP 10 LANGUAGEWORKEDWITH



Top 10 LanguageDesiredNextYear



Programming Language Trends Findings & Implications

Findings

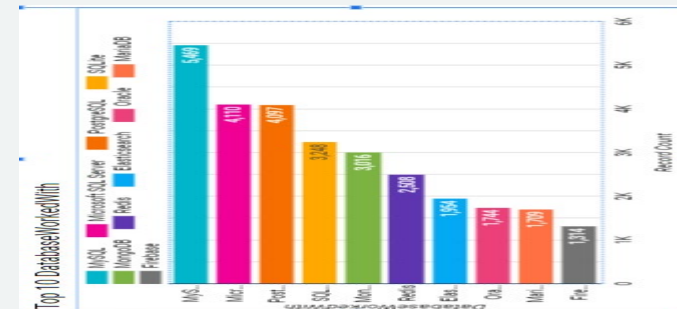
1. The Order of the top 10 programming language trends has been changed.
2. New programming languages appeared as programming languages desired to be learned next year.

Implications

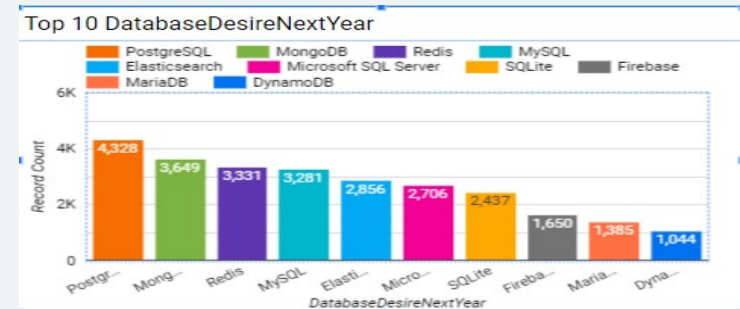
1. Some programming languages have changed their rank because they need to be learned for the next year.
2. New programming Languages must be learned because previously they were not worked with in the top 10.

Database Trends

TOP 10 DATABASEWORKEDWITH



Top 10 databasedesirednextyear



Database Trends Findings & Implication S

Findings

1. There is a difference in ranking between the top 10 Databases worked with and the top 10 Databases desired Next Year.
2. Databases at the head of the list in the top 10 databases worked with are in the middle in the top 10 databases desired next Year

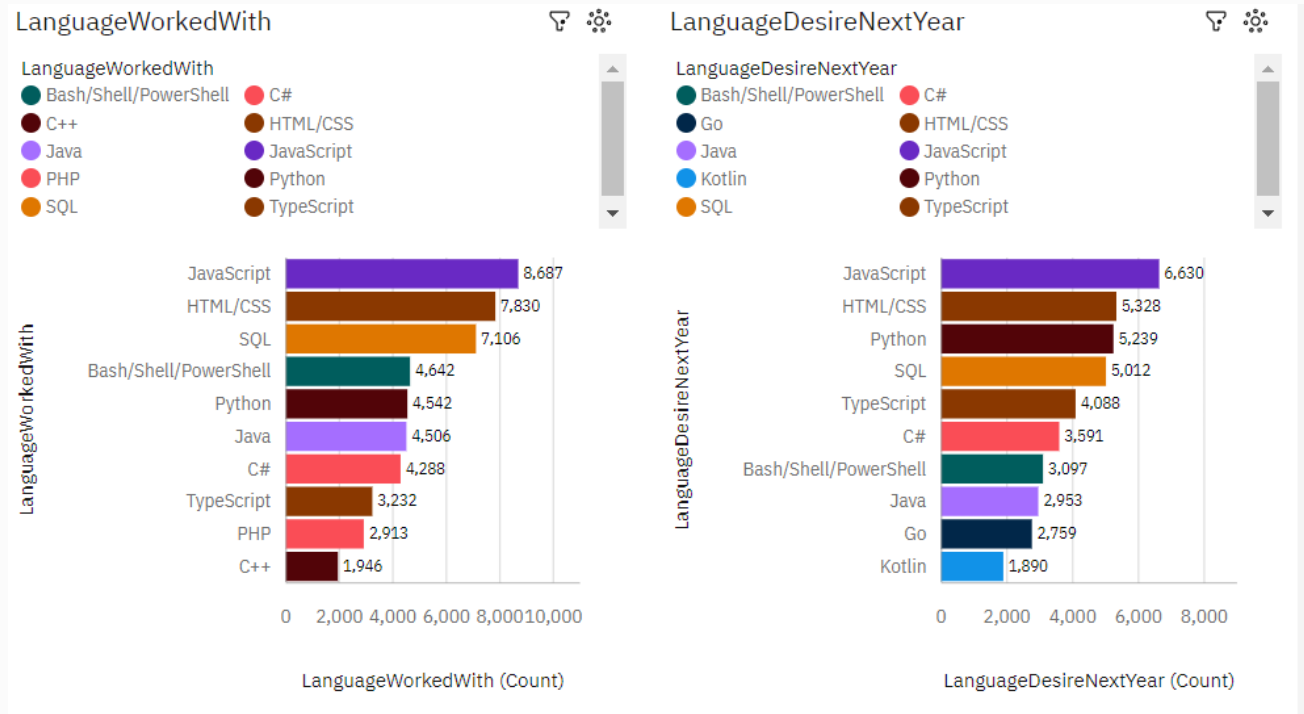
Implications

1. The databases desired in the next year are almost different from the Databases worked with.
2. Databases worked with are not in the first ranks of the top 10 Databases desired Next year

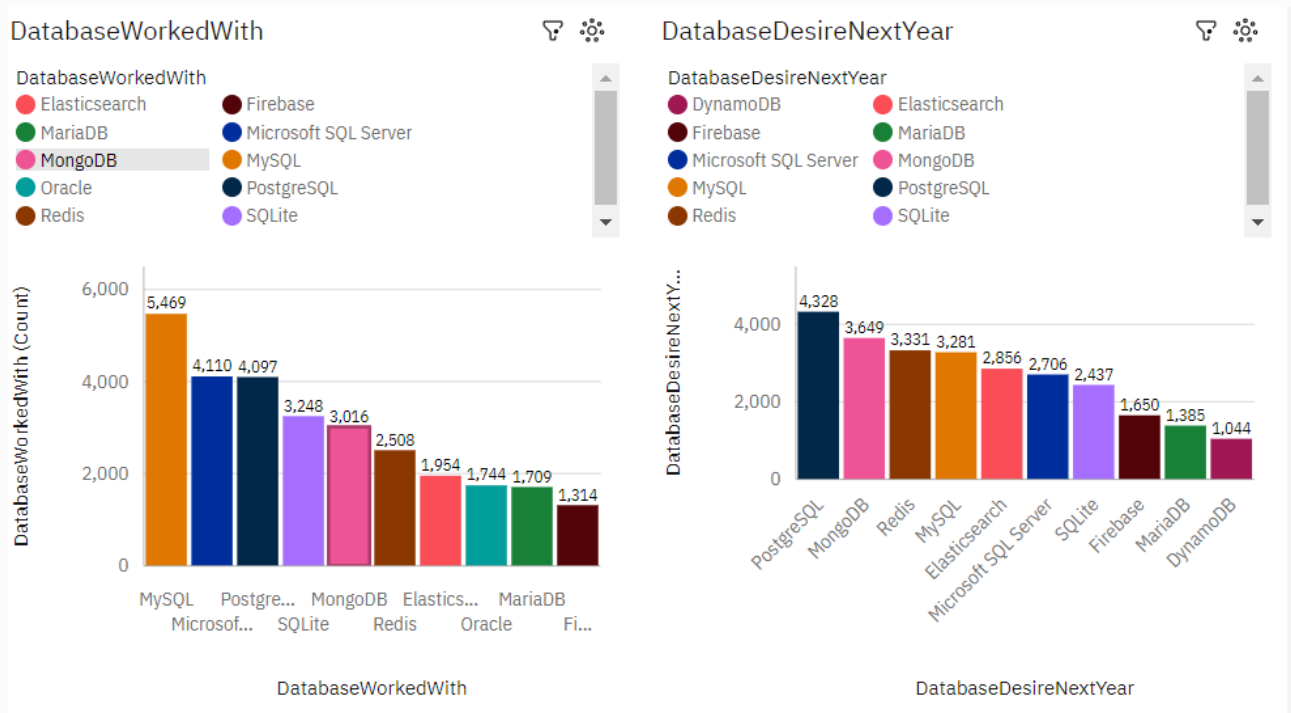
Dashboards

https://github.com/GATERETSE/testrepo/blob/main/GitHub_for_Module6.pdf





DASHBOARD FOR LANGUAGE TREND



DASHBOARD FOR DATABASES TREND



Appendix and Reference

https://cf-courses-data.s3.us.cloud-object-storage.appdomain.cloud/IBM-DA0321EN-SkillsNetwork/LargeData/m5_survey_data_demographics.csv

https://cf-courses-data.s3.us.cloud-object-storage.appdomain.cloud/IBM-DA0321EN-SkillsNetwork/LargeData/m5_survey_data_technologies_normalised.csv

Conclusion

In Conclusion, in the top 10 Languages, there are some languages that respondents need to advance in learning. Like Language, Some Databases need to be learned by respondents