TRENDS OF FUTURE PROGRAMMING SKILL

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OUTLINE

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

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EXECUTIVE SUMMARY

- Collecting the data of jobs open from various locations and technologies.

- Analyzing the data and identifying insights and trends
  - The top programming languages
  - The top database skills
  - The popular IDEs

- Bringing the information together with a dashboard showing current skills, future trend skills, and Demographics

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INTRODUCTION

- To keep pace of changing technology programing is the significant to expertise in IT solutions and consultants

- The focus problems is

- What are the programing/database skills in the present?

- What are the programing/database skills in the future?

METHODOLOGY

- Data Collection

- Data Wrangling

- Exploring Data Analysis

- Data Visualization

- Dashboard Creation
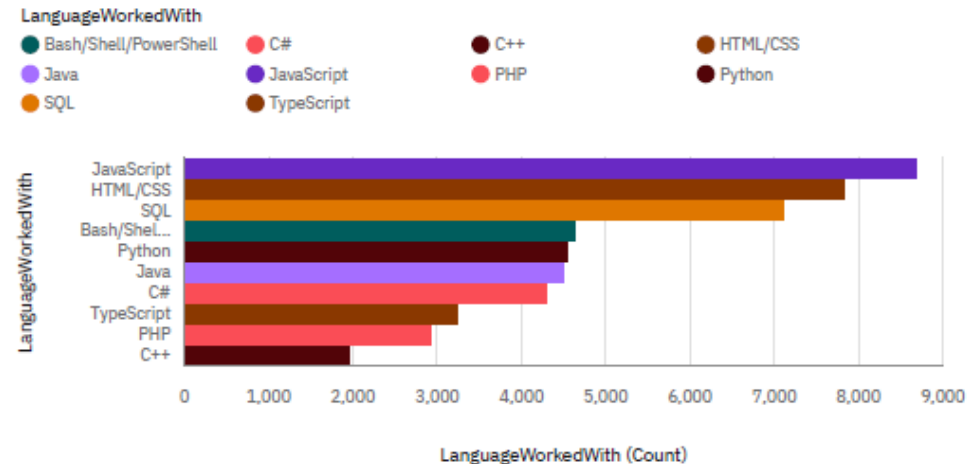
- Presenting of Findings

RESULTS

Collect and clean data, use stats to find patterns, and then create dashboards to show current and future trends simply and visually.
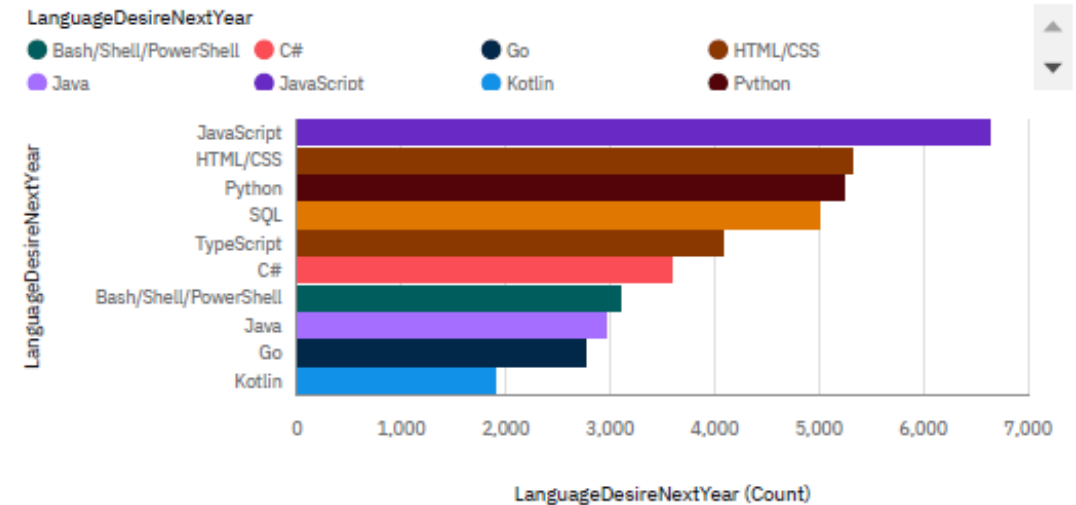
PROGRAMMING LANGUAGE TRENDS

Current Year

Top 10 LanguageWorkedWith

Next Year

Top 10 LanguageDesireNextYear

PROGRAMMING LANGUAGE TRENDS - FINDINGS & IMPLICATIONS

Findings

- JavaScript is the most highest number of people working with, following by HTML/CSS for both

- The third is replaced by Python

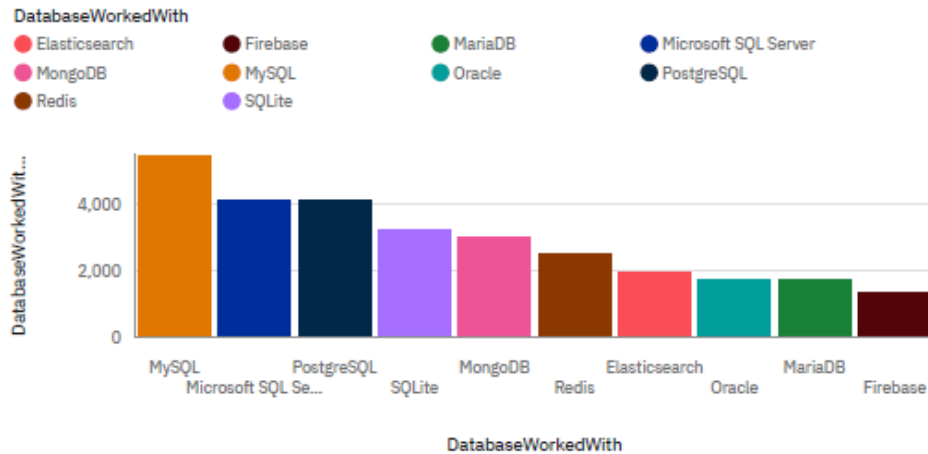- TypeScript is expected to be in the 5th place, while the Bash/Shell/PowerShell is out

Implications

- JavaScript and HTML/CSS will be still in the trends

- People are more interested in Python

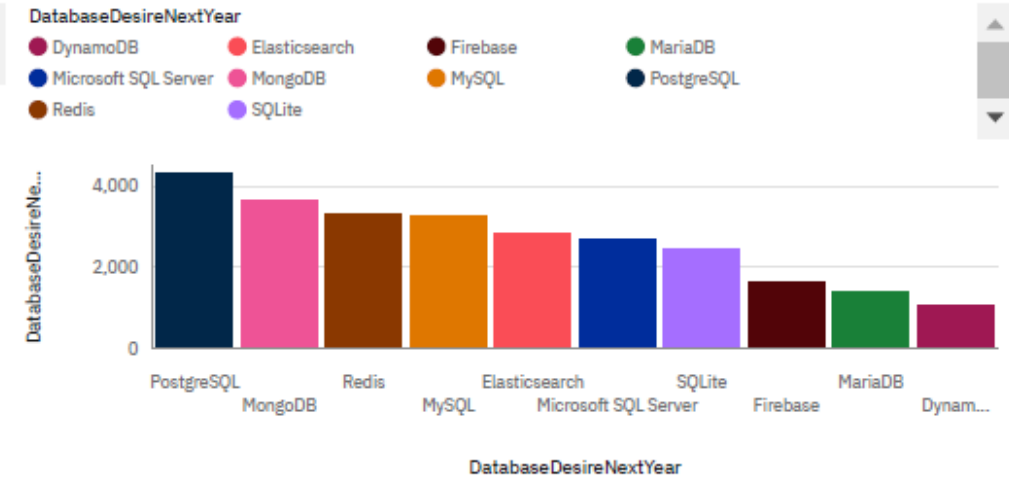- SQL will be still preferable

DATABASE TRENDS

DATABASE TRENDS - FINDINGS & IMPLICATIONS

Findings

- In next year, PostgreSQL is presented to be the 1st place instead MySQL

- MangoDB is changed from 5th to 2 nd place

- Microsoft SQL Server and SQLite is estimated to be replaced by Radish and Elasticsearch

Implications

- MySQL will be the most requirement to use

- MongoDB will be much more popular

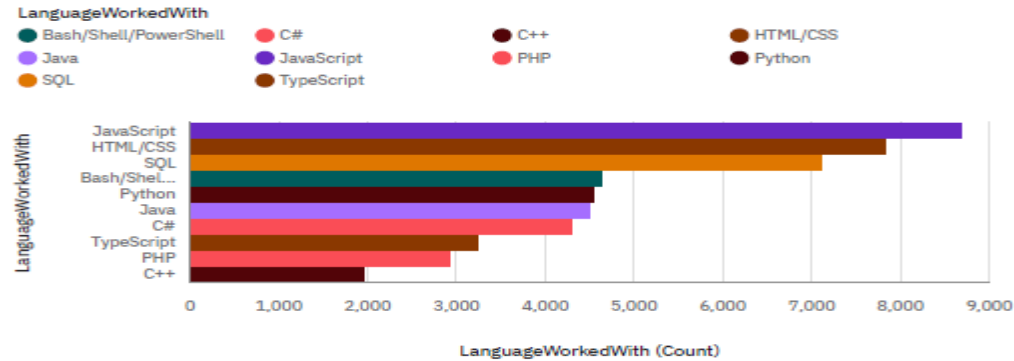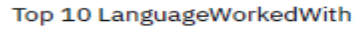- Radish and Elasticsearch will be used in the top 5th used databases
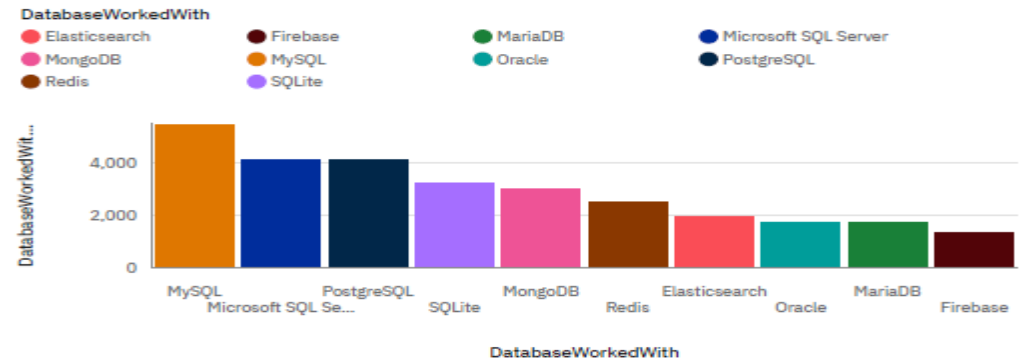
DASHBOARD

https://github.com/akanksha1307/IBM-data-Analyst-certification
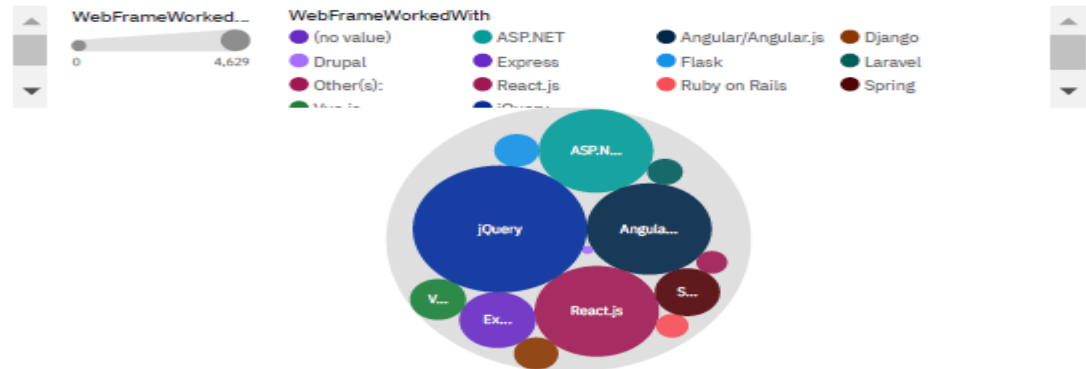
DASHBOARD TAB 1

DASHBOARD TAB 2

Future Technology Trend

Top 10 LanguageDesireNextYear

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

Top 10 DatabaseDesireNextYear

DatabaseDesireNextYear
- DynamoDB
- Elasticsearch
- Firebase
- MariaDB
- Microsoft SQL Server
- MongoDB
- MySQL
- PostgreSQL
- Redis
- SQLite
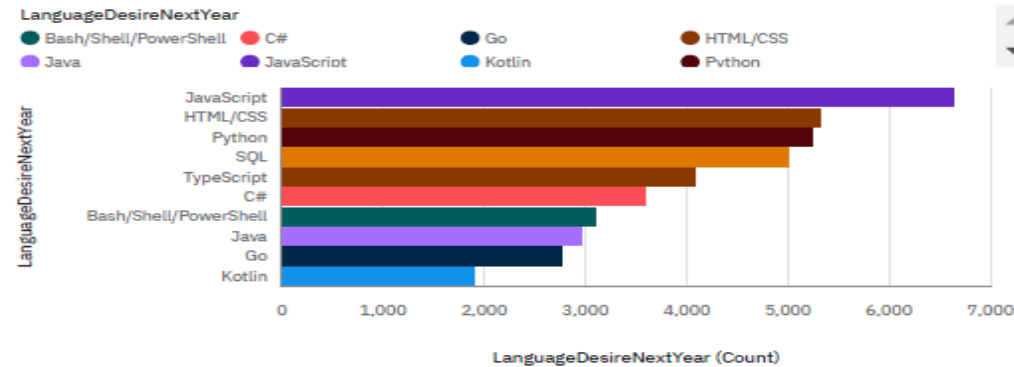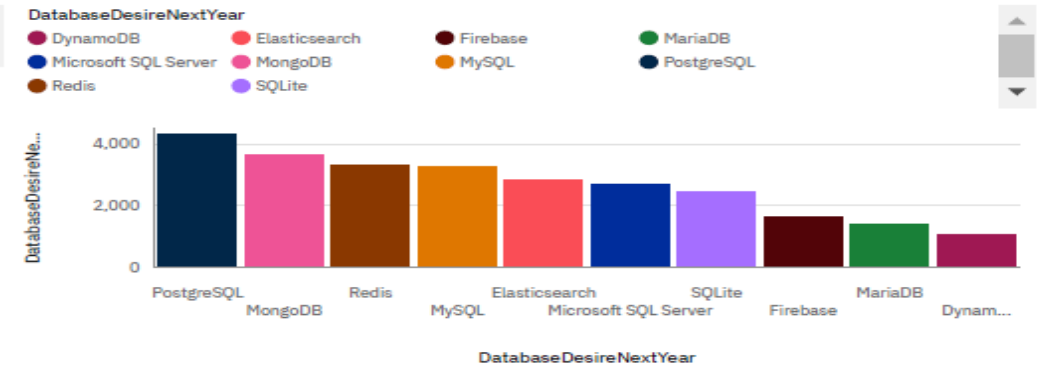
PlatformDesireNextYear
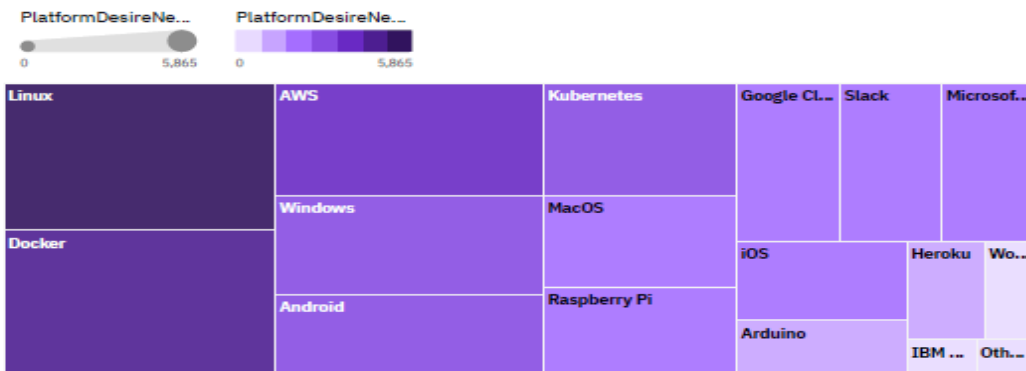
Top 10 WebFrameDesireNextYear
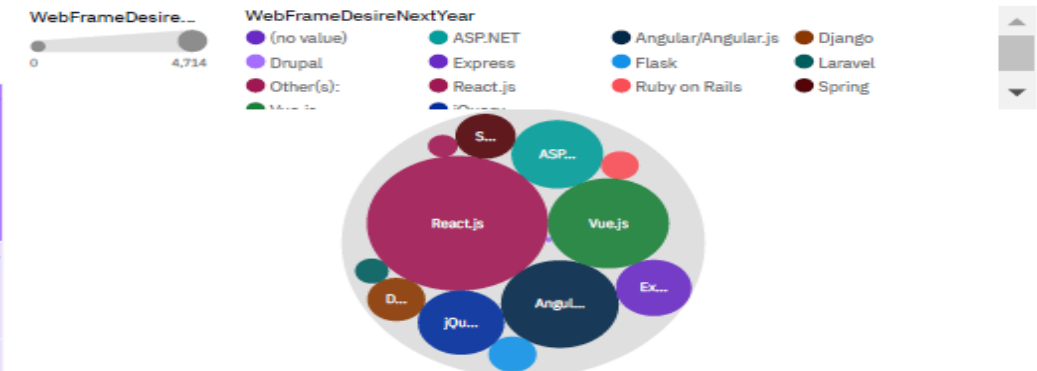
WebFrameDesireNextYear
- (no value)
- ASP.NET
- Angular/Angular.js
- Django
- Drupal
- Express
- Flask
- Laravel
- Other(s):
- React.js
- Ruby on Rails
- Spring

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DASHBOARD TAB 3
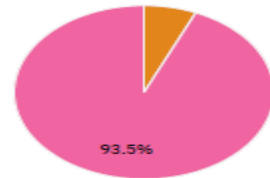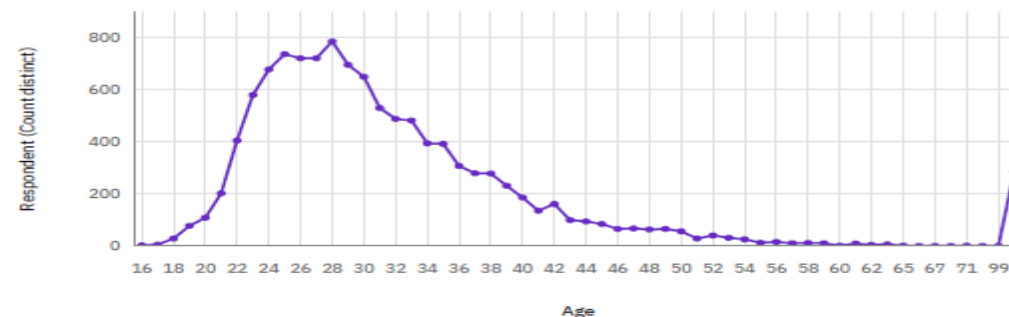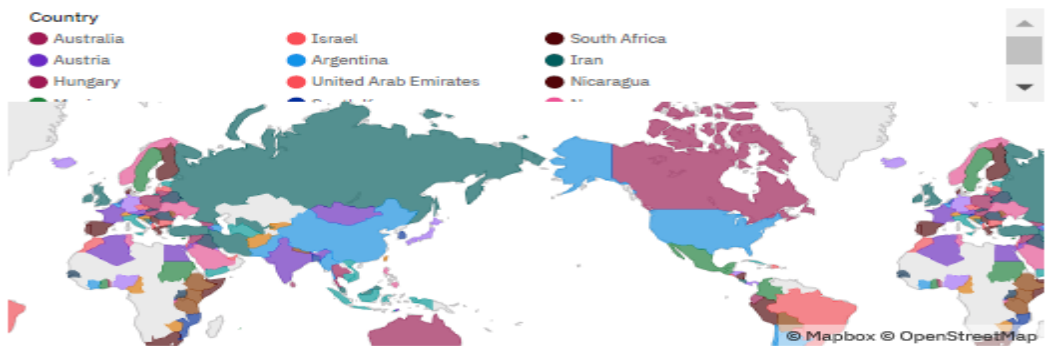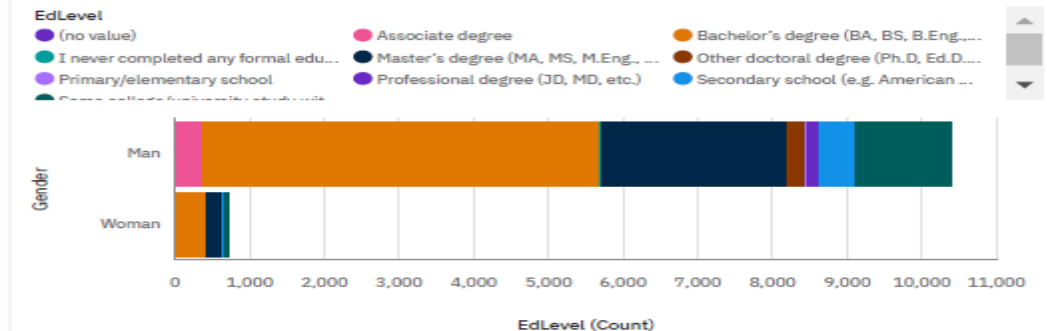
DISCUSSION

- Women places in global IT areas
- Why the SQL servers are remained the most interest in the future?
- What is the key value of HTML/CSS to be still required?

OVERALL FINDINGS & IMPLICATIONS

Findings

- By next year, JavaScript and HTML/CSS will be remained in the top 1st and 2nd

- While SQL is going to be surpassed by Python, Bash/Shell/PowerShell are not shown in the next year

- PostgreSQL is presented to be the 1st place instead MySQL, compared with disappearing of Microsoft SQL Server and SQLite

- Platform Linux is the largest proportion, while windows will be replaced by Docker

- React.js is predicted to be the highest preference of Web Frame in the next year instead of jQuery

Implications

- JavaScript and HTML/CSS will be continue popular

- python is going to be more interested

- SQL servers will be required but the most popular database is expected to be PostgreSQL

- Docker is more preferred as much as Linux

- The demand of jQuery is decreasing
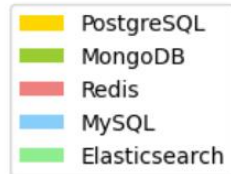
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CONCLUSION

- HTML/CSS is estimated to stay popular the same in the next year

- PostgreSQL will be the most-demand of database

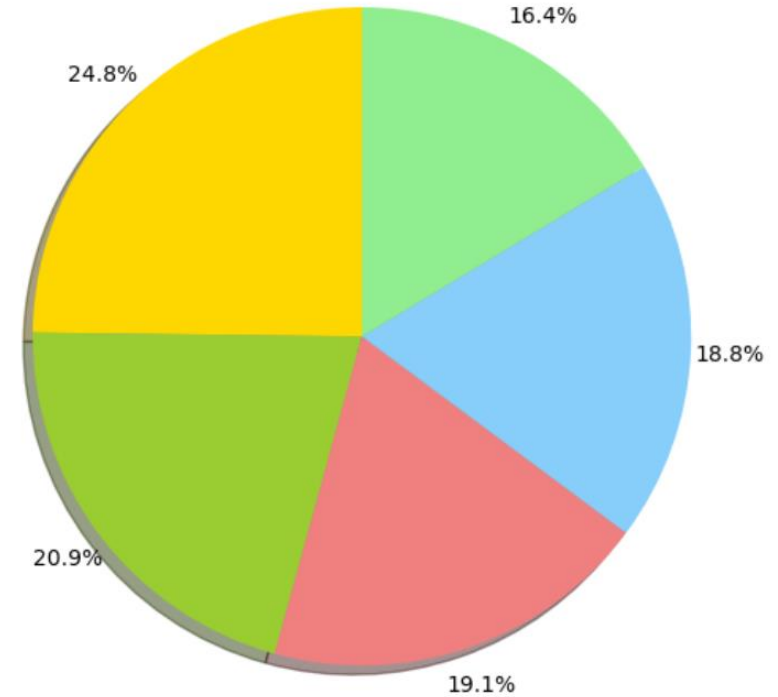- Linux platform is predicted to stay the same at 1st requirement

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APPENDIX

The top 5 databases that respondents wish to learn next year

Legend:
- PostgreSQL
- MongoDB
- Redis
- MySQL
- Elasticsearch

24.8%
16.4%
18.8%
19.1%
20.9%

count

JOB POSTINGS

Number_of_Jobs by Location

Number_of_Jobs (...

434   5316