



Technology Usage and Preferences Trends Among Respondents: An Analytical Report

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EXECUTIVE SUMMARY



- 1. HTML/CSS, Bash/Shell/PowerShell, and C# are the most popular programming languages, making up 68.4% of the responses.
- 2. Microsoft SQL Server and MySQL are the dominant databases, representing 40.2% of the database-related responses.
- 3. Docker is the leading platform, used by 18.4% of respondents.
- 4. jQuery, Angular/Angular.js, and ASP.NET are the top web frameworks, accounting for 55% of the responses.
- 5. The United States has the highest number of respondents, with men significantly outnumbering women.
- 6. Age 28 is the most represented age group among respondents from the United States.

INTRODUCTION



- 1. The report aims to analyze trends in technology usage and preferences.
- 2. It covers programming languages, databases, platforms, and web frameworks.
- 3. Data is collected from over 11,000 respondents across various demographics.
- 4. Key insights into the technology landscape and future preferences are highlighted.
- 5. The analysis also includes demographic trends, focusing on age and gender distribution.

METHODOLOGY



- 1. Data was gathered from a large-scale survey with over 11,000 respondents.
- 2. Responses were categorized by technology type: programming languages, databases, platforms, and web frameworks.
- 3. Percentages and counts were calculated for each category to identify trends.
- 4. Demographic data, including country, gender, and age, was also analyzed.
- 5. Statistical methods were used to identify unusually high counts and preferences.

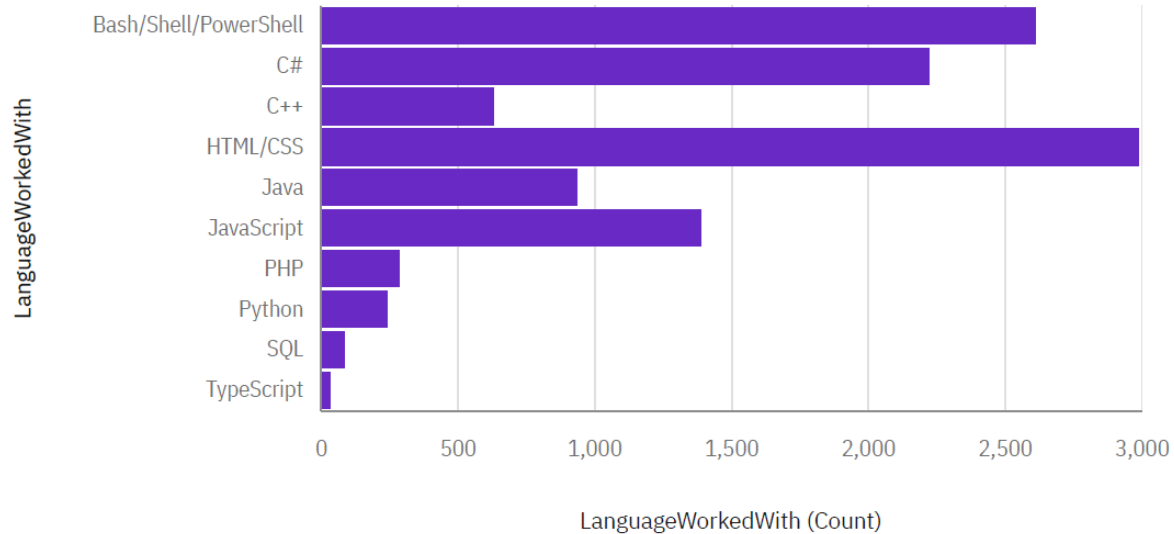
RESULTS

1. HTML/CSS is the most frequently used programming language at 26.1%.
2. Microsoft SQL Server and MySQL are the top databases, used by 21.2% and 19% of respondents, respectively.
3. Docker is the most popular platform, with an 18.4% usage rate.
4. jQuery leads web frameworks at 19.8%, followed by Angular/Angular.js and ASP.NET.
5. The United States has the highest respondent count, with a significant gender disparity.
6. Age 28 is the most common age among respondents from the United States.

PROGRAMMING LANGUAGE TRENDS

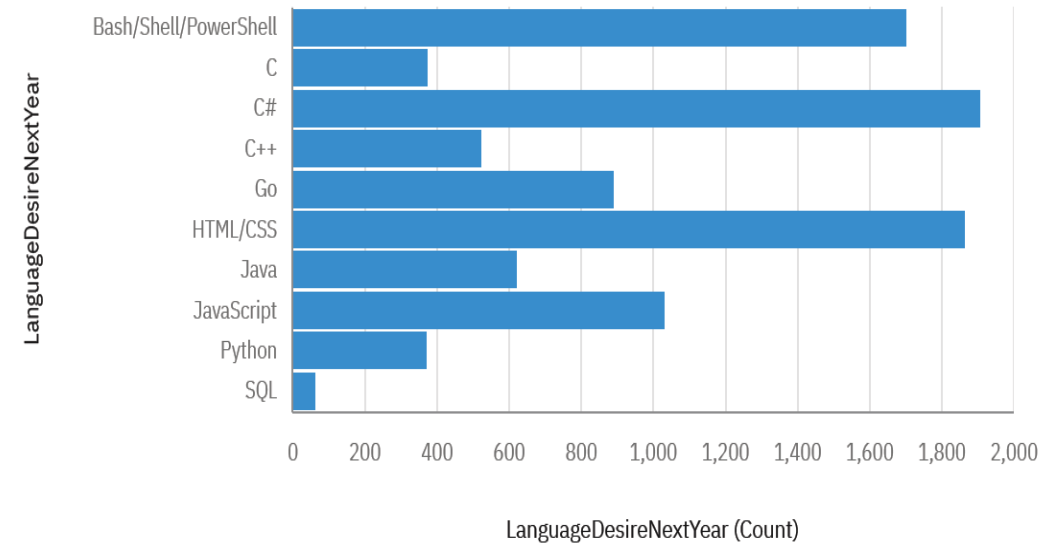
Current
Year

Top 10 LanguageWorkedWith



Next
Year

Top 10 LanguageDesireNextYear



PROGRAMMING LANGUAGE TRENDS - FINDINGS & IMPLICATIONS

Findings

- 1. HTML/CSS, Bash/Shell/PowerShell, and C# are the top programming languages.
- 2. These three languages account for 68.4% of responses.
- 3. There is a strong interest in continuing to use these languages in the future.

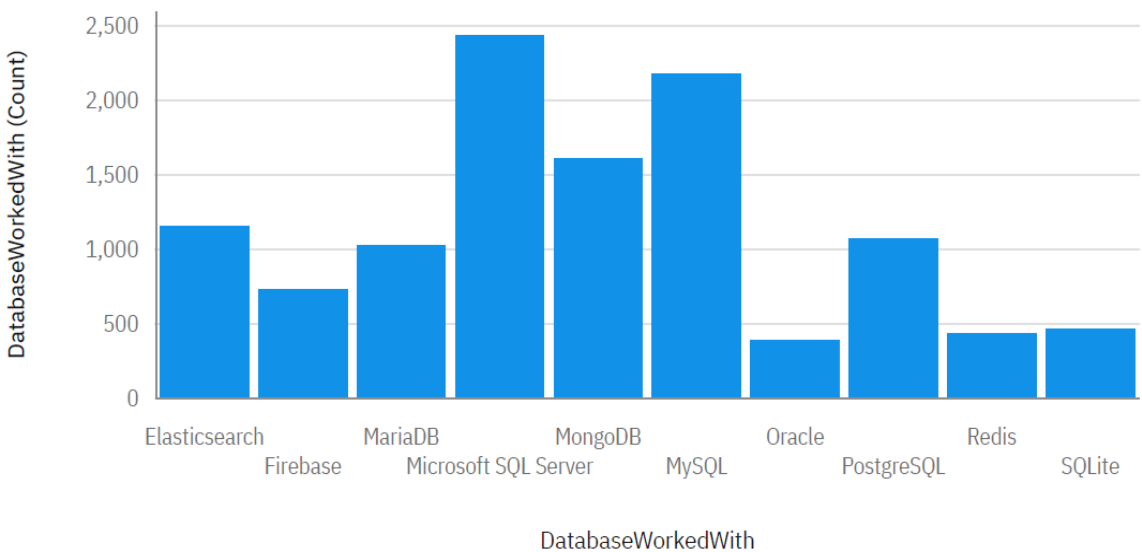
Implications

- 1. Companies should ensure they have strong expertise in HTML/CSS, Bash/Shell/PowerShell, and C#.
- 2. Training programs should focus on these languages to meet demand.
- 3. Future development projects should consider these languages for better alignment with industry trends.

DATABASE TRENDS

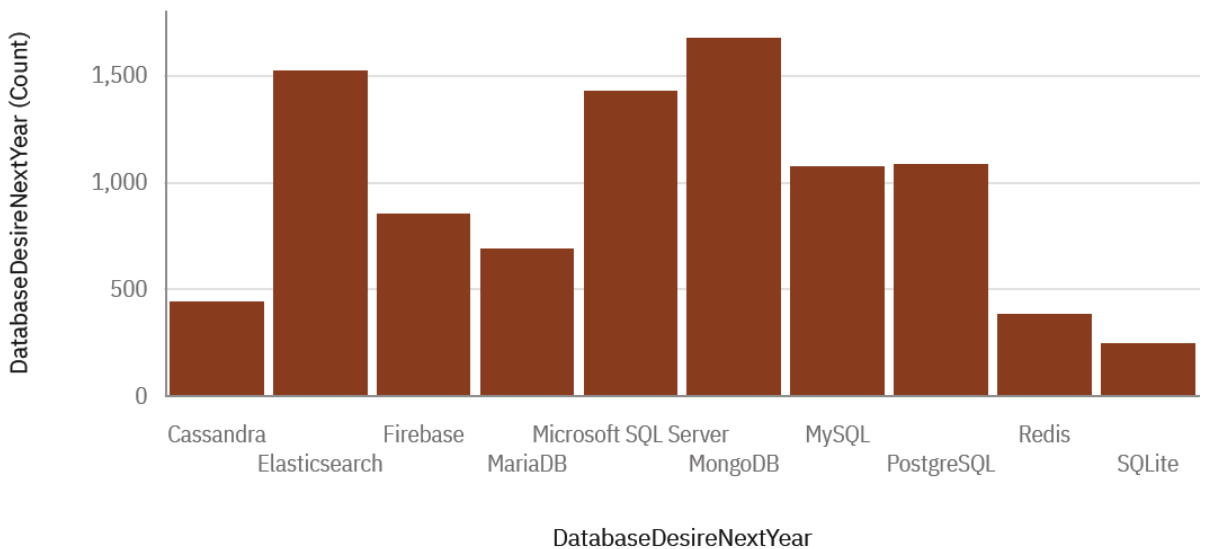
Current
Year

Top 10 DatabaseWorkedWith



Next
Year

Top 10 DatabaseDesireNextYear



DATABASE TRENDS - FINDINGS & IMPLICATIONS

Findings

- 1. Microsoft SQL Server and MySQL are the most commonly used databases.
- 2. Together, they make up 40.2% of database-related responses.
- 3. MongoDB, Elasticsearch, and Microsoft SQL Server are the most desired databases for the next year.

Implications

- 1. Database management and development should prioritize skills in SQL Server and MySQL.
- 2. Organizations should invest in MongoDB and Elasticsearch to align with future preferences.
- 3. Training and certification programs should emphasize these databases.

DASHBOARD

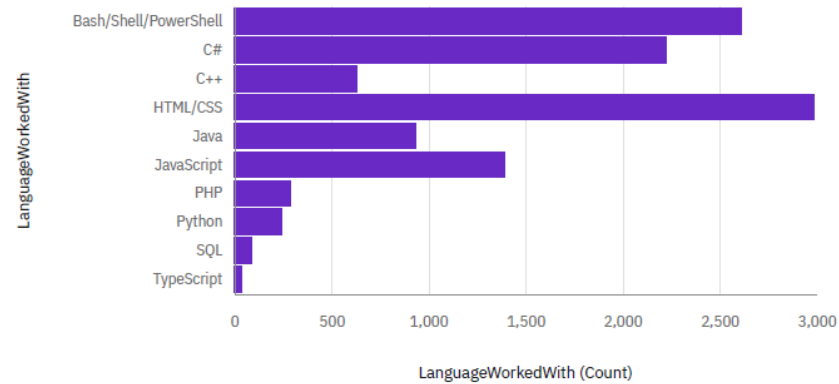


[https://github.com/LalithaNarayana/
Cognos-Looker_Studio](https://github.com/LalithaNarayana/Cognos-Looker_Studio)

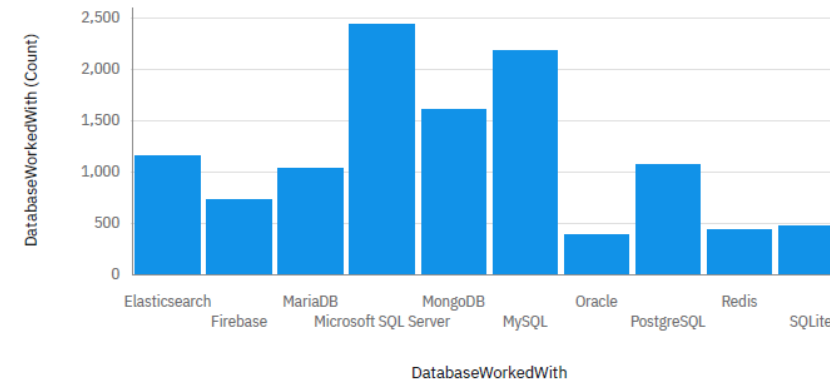
DASHBOARD TAB 1

Current Technology Usage

Top 10 LanguageWorkedWith



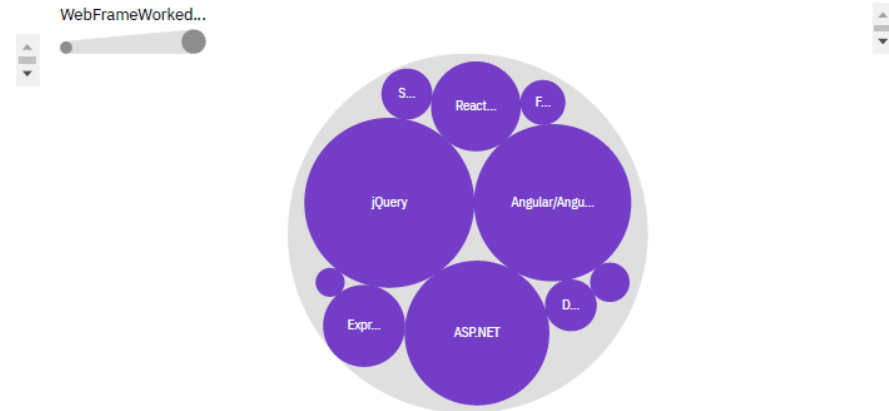
Top 10 DatabaseWorkedWith



PlatformWorkedWith

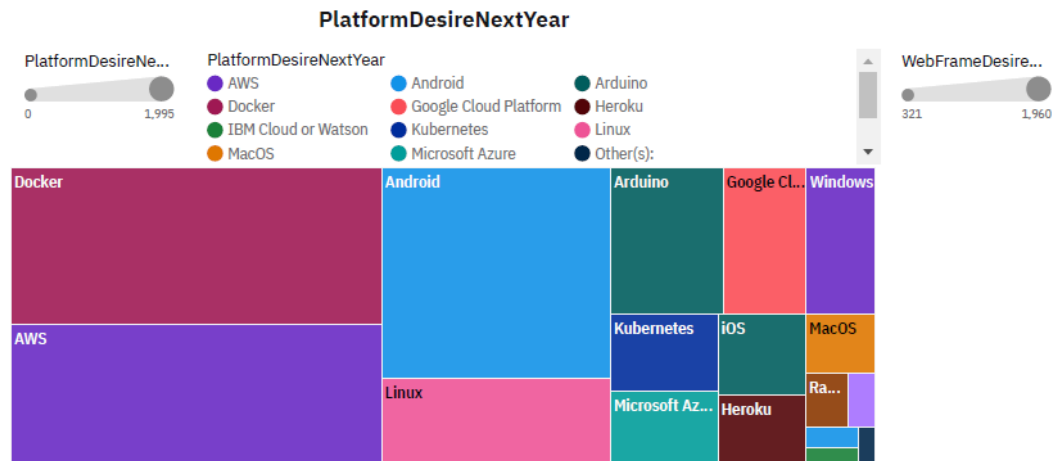
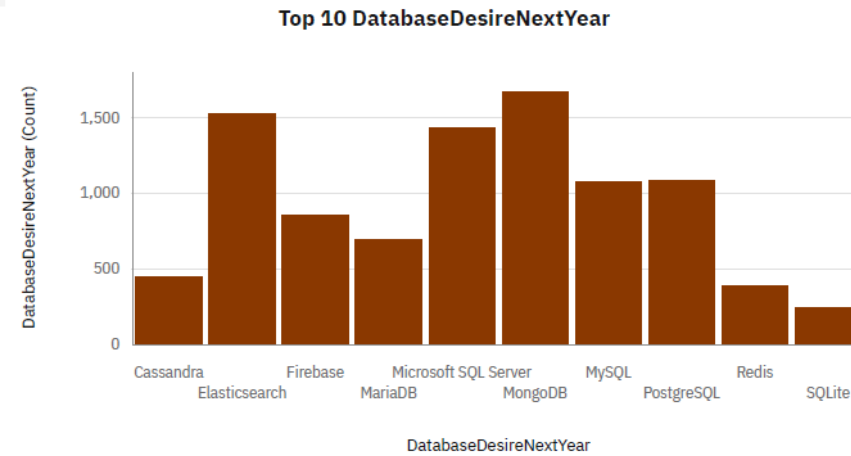
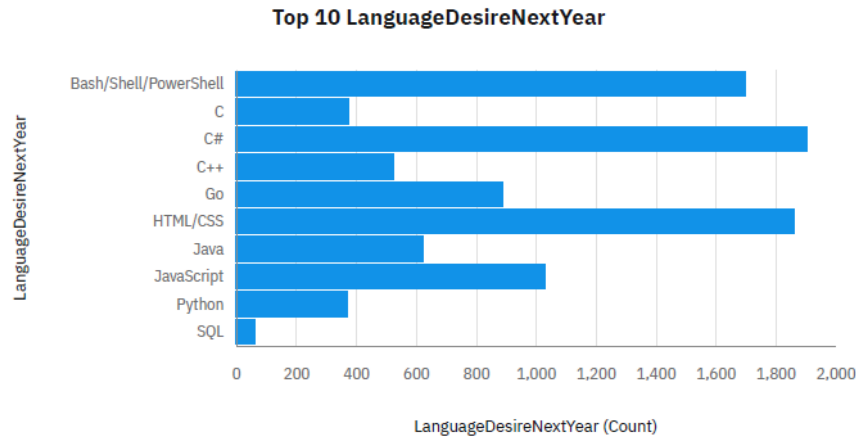


Top 10 WebFrameWorkedWith

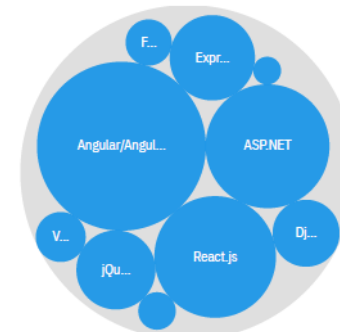


DASHBOARD TAB 2

Future Technology Trend



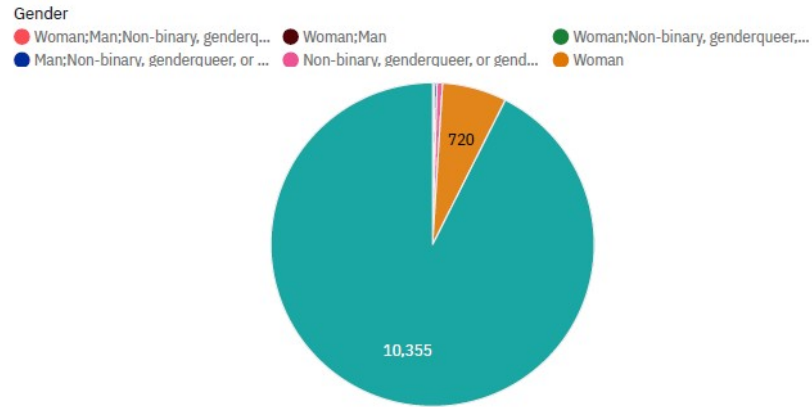
Top 10 WebFrameDesireNextYear



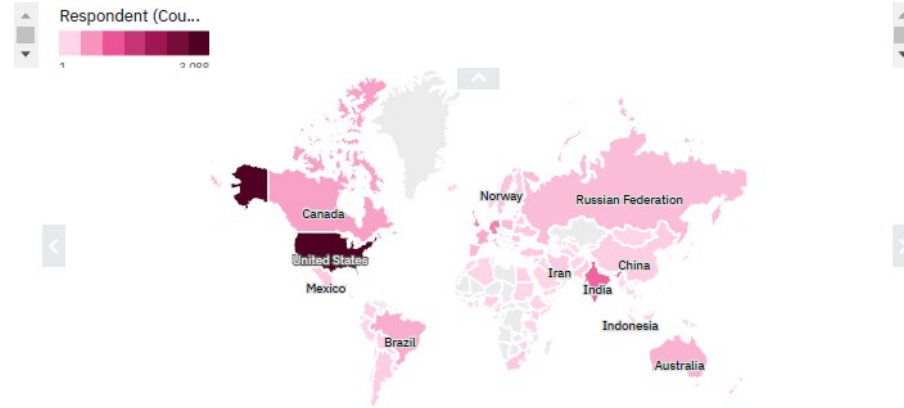
DASHBOARD TAB 3

Demographics

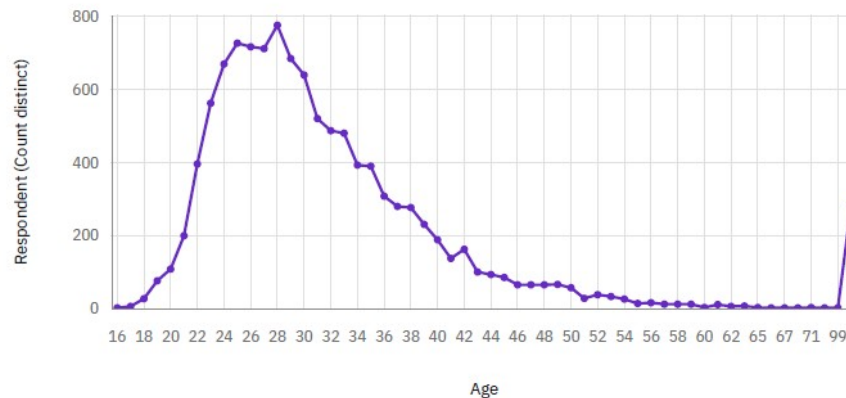
Respondent classified by Gender



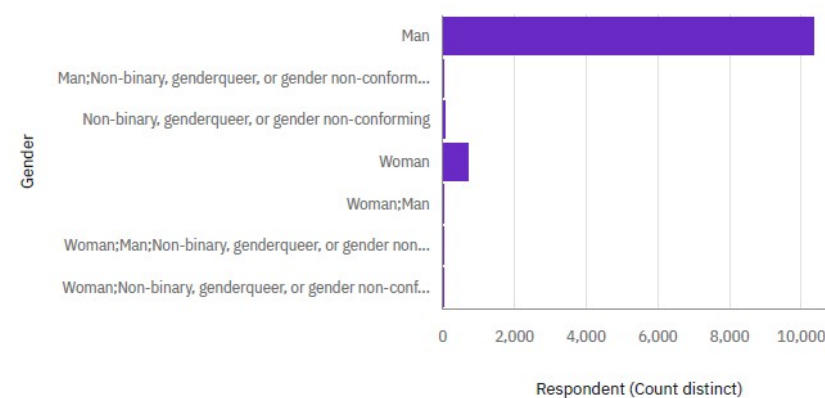
Respondent Count for Countries



Respondent Count by Age



Respondent Count by Gender(classified by Formal Education Level)



DISCUSSION



- 1. The dominance of certain technologies suggests a trend towards standardization in the industry.
- 2. The gender disparity in the United States highlights a need for increased diversity efforts.
- 3. Age-specific trends can help tailor recruitment and training programs.
- 4. Preferences for future technologies indicate areas for strategic investment.
- 5. The analysis provides a roadmap for aligning organizational skills with industry trends.

OVERALL FINDINGS & IMPLICATIONS

Findings

- 1. HTML/CSS, SQL Server, and Docker are the leading technologies in their categories.
- 2. The United States has the highest number of respondents, with significant gender and age trends.
- 3. Future technology preferences show a strong inclination towards MongoDB, Docker, and Angular/Angular.js.

Implications

- 1. Organizations should focus on these leading technologies for current and future projects.
- 2. Diversity initiatives should be prioritized in the tech industry, especially in the United States.
- 3. Investment in training for future-preferred technologies will provide a competitive edge.

CONCLUSION



- 1. HTML/CSS, Bash/Shell/PowerShell, and C# are critical skills in today's tech landscape.
- 2. SQL Server and MySQL dominate database usage but future preferences are shifting.
- 3. Docker is a key platform, with strong future demand for Docker, AWS, and Android.
- 4. There are significant demographic trends in technology usage, particularly in the United States.
- 5. The report provides actionable insights for aligning with current and future technology trends.