Database Systems

How does one effectively scale a database system and not sacrifice its quality? The Database Systems Trend Report offers answers to this question by providing industry insights into database management selection and evaluation criteria. It will also explore database management patterns for cloud applications, relational database migration strategies, the hybrid, multi-cloud approach to DBMS, advice for the best data governing practices, and more.

Expert Insights
The Database Systems Trend Report seeks to set organization up for scaling success. Topics explored may include:

• Database practices and patterns (could include any/all of the following):
  o Database search patterns
  o Relational database migration strategies
  o Top-down vs. bottom-up database design
  o Real-time database applications and patterns
  o Best practices for schema design
• Data management patterns for cloud applications
• The hybrid, multi-cloud approach to DBMS
• Key considerations when shifting an organization to a cloud database
• Strategies for governing data quality, accuracy, and consistency
• An overview of public vs. private cloud services and key considerations for DBAs
• What is DBMS automation and how is it being leveraged?
• An overview of Augmented Data Management (ADM)

Developer Survey
The research component of this Trend Report will explore topics including, but not limited to:

• DBMS selection and evaluation criteria
  o Relational
  o Document
  o NoSQL
  o Time Series
  o Key-value (In Memory)
• Harmonizing application-level and persistence-level modeling
• Data normalization and denormalization strategies
• Distributed computing and the ‘source of truth’
• Measuring data integrity and detecting data corruption (ie. testing for quality, accuracy, and consistency)
• Encryption and security of persisted data
• Polyglot persistence and microservices
• Ad-hoc relational algebra implementations
• Compression Algorithms and Patterns
• Where to encode the models: DBMS and domain-driven design
Average monthly visitors engaging with database systems-related content

Total Downloads of Database DZone Publications in 2021

65% Tech Decision Makers (Manager+) engaging with Database Systems Content

90% TDMs located in North America

65% Employed at Companies Reporting $100M+ Revenue

Downloader Job Roles

- 34% Architect, Software Developer
- 9% Development Manager, Lead Developer
- 5% Executive Manager, VP, CTO, CIO
- 2% Marketing, Sales, Communication
- 3% President, CEO, Owner
- 39% Programmer, Developer
- 2% QA, Testing, Compliance
- 4% System Admin, DBA
- 2% Web Designer, Graphic Designer

DZone reaches 44% of database systems intenders.

102,110 Businesses with intent for database systems content are visiting DZone.

Source: DZone Audience Composition, Bombora Last 90 Days, May 26, 2022; Market Insights, Bombora, Last 90 Days, May 26, 2022; DZone Publications Downloads, 2021
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into software industry trends. Engage an audience looking to learn best practices and implement solutions.

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- Inclusion in 1 Weekly newsletter
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