



DAFTAR PUSTAKA

- [1] C. H. Lee and Y. L. Zheng, “Automatic SQL-to-NoSQL Schema Transformation over the MySQL and HBase Databases,” in *International Conference on Consumer Electronics-Taiwan (ICCE-TW)*, 2015, pp. 426–427.
- [2] J. Hsu, C. Hsu, S. Chen, and Y. Chung, “Correlation Aware Technique for SQL to NoSQL Transformation,” in *IEEE 7th International Conference on Ubi-Media Computing and Workshops Correlation*, 2014, pp. 4–7.
- [3] L. Rocha, F. Vale, E. Cirilo, D. Barbosa, and F. Mouroa, “A Framework for Migrating Relational Datasets to NoSQL,” in *ICCS 2015 International Conference On Computational Science*, 2015, vol. 51, pp. 2593–2602.
- [4] W. C. Chung, H. P. Lin, S. C. Chen, M. F. Jiang, and Y. C. Chung, “JackHare : a framework for SQL to NoSQL translation using MapReduce,” *Autom. Softw. Eng.*, vol. 21, no. 4, pp. 489–508, 2014.
- [5] P. Russom, *Managing Big Data*. TDWI research, 2013.
- [6] B. Saraladevi, N. Pazhaniraja, P. V. Paul, M. S. S. Basha, and P. Dhavachelvan, “Big Data and Hadoop-A Study in Security Perspective,” *Procedia Comput. Sci.*, vol. 50, pp. 596–601, 2015.
- [7] Y. Li and S. Manoharan, “A Performance Comparison of SQL and NoSQL Databases,” in *IEEE Pacific RIM Conference on Communications, Computers, and Signal Processing*, 2013, pp. 15–19.
- [8] A. Goyal, A. Swaminathan, R. Pande, and V. Attar, “Cross Platform (RDBMS to NoSQL) Database Validation Tool using Bloom Filter,” in *FIFTH INTERNATIONAL CONFERENCE ON RECENT TRENDS IN INFORMATION TECHNOLOGY*, 2016.
- [9] A. Gandomi and M. Haider, “Beyond the hype: Big data concepts, methods, and analytics,” *Int. J. Inf. Manage.*, vol. 35, no. 2, pp. 137–144, 2015.



- [10] N. Miloslavskaya and A. Tolstoy, “Application of Big Data , Fast Data and Data Lake Concepts to Information Security Issues,” in *4th International Conference on Future Internet of Things and Cloud Workshops*, 2016, pp. 148–153.
- [11] E. E. A. Durham, A. Rosen, and R. W. Harrison, “A Model Architecture for Big Data applications using Relational Databases,” in *IEEE International Conference on Big Data*, 2014, pp. 9–16.
- [12] K. George and T. Mathew, “Big Database Stores A review on various big data datastores,” in *International Conference on Green Computing and Internet of Things (ICGCIoT)*, 2015, pp. 567–573.
- [13] P. P. Srivastava, S. Goyal, and A. K. Smieee, “Analysis of Various NoSql Database,” in *IEEE International Conference onGreen Computing and Internet of Things (ICGCIoT)*, 2015, pp. 539–544.
- [14] E. Barbierato, M. Gribaudo, and M. Iacono, “Performance evaluation of NoSQL big-data applications using multi-formalism models,” *Futur. Gener. Comput. Syst.*, vol. 37, pp. 345–353, 2014.
- [15] C. H. Lee and Y. L. Zheng, “SQL-to-NoSQL Schema Denormalization and Migration : A Study on Content Management Systems,” in *IEEE International Conference on Systems, Man, and Cybernetics*, 2015, pp. 2022–2026.
- [16] Y. Hu and S. Dessloch, “Extracting deltas from column oriented NoSQL databases for different incremental applications and diverse data targets,” *Data Knowl. Eng.*, vol. 93, pp. 42–59, 2014.
- [17] D. Han and E. Stroulia, “HGrid : A Data Model for Large Geospatial Data Sets in HBase,” in *IEEE Sixth International Conference on Cloud Computing HGrid*, 2013, pp. 910–917.
- [18] S. A. T. Mpinda, L. G. Maschietto, and P. A. Bungama, “From Relational Database to Column-Oriented NoSQL Database : Migration Process,” *Int. J. Eng. Res. Technol.*, vol. 4, no. 05, pp. 399–403, 2015.
- [19] C. Nitnaware and A. Khan, “A Multidimensional Data Storage Model for Location based application on HBase,” in *2nd International Conference on*



Innovations in Information Embedded and Communication Systems
ICIIECS'15, 2015, pp. 1–5.

- [20] R. Lawrence, “Integration and Virtualization of Relational SQL and NoSQL Systems including MySQL and MongoDB,” in *International Conference on Computational Science and Computational Intelligence*, 2014, pp. 285–290.
- [21] G. Karnitis and G. Arnicans, “Migration of Relational Database to Document-Oriented Database : Structure Denormalization and Data Transformation,” in *7th International Conference on Computational Intelligence, Communication Systems and Networks (CICSyN)*, 2015, pp. 113–118.
- [22] J. Bhogal and I. Choksi, “Handling Big Data using NoSQL,” in *29th International Conference on Advanced Information Networking and Applications Workshops*, 2015, pp. 393–398.
- [23] V. Gadepally, J. Bolewski, D. Hook, D. Hutchison, B. Miller, and J. Kepner, “Graphulo : Linear Algebra Graph Kernels for NoSQL Databases,” in *IEEE International Parallel and Distributed Processing Symposium Workshops*, 2015, pp. 822–830.
- [24] J. Huang, X. Ouyang, J. Jose, H. Wang, M. Luo, H. Subramoni, C. Murthy, and D. K. Panda, “High-Performance Design of HBase with RDMA over InfiniBand,” in *IEEE 26th International Parallel and Distributed Processing Symposium High-Performance*, 2012, pp. 774–785.
- [25] A. Kanade, A. Gopal, and S. Kanade, “A Study of Normalization and Embedding in MongoDB,” in *IEEE International Advance Computing Conference(IACC)*, 2014, pp. 416–421.
- [26] M. J. Mior, K. Salem, A. Aboulnaga, and R. Liu, “NoSE : Schema Design for NoSQL Applications,” *IEEE Trans. Knowl. Data Eng.*, 2016.
- [27] S. Lombardo, E. Di Nitto, and D. Ardagna, “Issues in Handling Complex Data Structures with NoSQL databases,” in *IEEE 14th International Symposium on Symbolic and Numeric Algorithms for Scientific Computing*, 2012, pp. 443–448.
- [28] L. Okman, N. Gal-oz, Y. Gonen, E. Gudes, and A. Cassandra, “Security



Issues in NoSQL Databases,” in *IEEE International Joint Conference of IEEE TrustCom-11/IEEE ICCESS-11/FCST-11*, 2011, pp. 541–547.

- [29] X. Li, Z. Ma, and H. Chen, “QODM : A Query-Oriented Data Modeling Approach for NoSQL Databases,” in *IEEE Workshop on Advanced Research and Technology in Industry Applications (WARTIA)*, 2014, pp. 338–345.
- [30] C. Li, “Transforming Relational Database into HBase : A Case Study,” in *International Conference on Software Engineering and Service Sciences (ICSESS)*, 2010, pp. 683–687.
- [31] J. Han, E. Haihong, G. Le, and J. Du, “Survey on NoSQL database,” in *6th International Conference on Pervasive Computing and Applications (ICPCA)*, 2011, pp. 363–366.
- [32] G. Zhao, W. Huang, S. Liang, and Y. Tang, “Modeling MongoDB with Relational Model,” in *IEEE Fourth International Conference on Emerging Intelligent Data and Web Technologies*, 2013, pp. 115–121.
- [33] Y. Gu, X. Wang, S. Shen, S. Ji, and J. Wang, “Analysis of Data Replication Mechanism in NoSQL Database MongoDB,” in *IEEE International Conference on Consumer Electronics-Taiwan (ICCE-TW)*, 2015, pp. 66–67.
- [34] L. Stanescu, M. Brezovan, and D. D. Burdescu, “Automatic Mapping of MySQL Databases to NoSQL MongoDB,” in *the Federated Conference on Computer Science and Information Systems*, 2016, pp. 837–840.
- [35] K. Kaur and R. Rani, “Modeling and Querying Data in NoSQL Databases,” in *IEEE International Conference on Big Data*, 2013, pp. 1–7.
- [36] D. Mohammadpur and A. Zeid abadi, “Column-Oriented Storage Optimization in Multi-Table Queries,” *Rev. Tec. la Fac. Ing. Univ. del Zulia*, vol. 38, no. 2, pp. 62–68, 2015.
- [37] F. Abiri, M. Kahani, and F. Zarinkalam, “An Entity Based RDF Indexing Schema Using Hadoop And HBase,” in *4th International Conference on Computer and Knowledge Engineering (ICCKE)*, 2014, pp. 1–6.
- [38] J. Dai, “SQL to NoSQL : What to do and How,” in *IOP Conference Series: Earth and Environmental Science*, 2019.
- [39] S. H. Kamal, H. H. Elazhary, and E. E. Hassanein, “A Qualitative



Comparison of NoSQL Data Stores,” *Int. J. Adv. Comput. Sci. Appl.*, vol. 10, no. 2, pp. 330–338, 2019.

- [40] R. Hecht and S. Jablonski, “NoSQL Evaluation A Use Case Oriented Survey,” in *International Conference on Cloud and Service Computing*, 2011, pp. 336–341.
- [41] T. Jia, X. Zhao, Z. Wang, D. Gong, and G. Ding, “Model Transformation and Data Migration from Relational Database to MongoDB,” in *IEEE International Congress on Big Data*, 2016, pp. 60–67.
- [42] C. J. M. Tauro, N. Ganesan, A. A. Easo, and S. Mathew, “Convergent Replicated Data Structures that Tolerate Eventual Consistency in NoSQL Databases,” in *IEEE Third International Conference on Advances in Computing and Communications*, 2013, pp. 70–75.
- [43] D. G. Chandra, “BASE analysis of NoSQL database,” *Futur. Gener. Comput. Syst.*, vol. 52, pp. 13–21, 2015.
- [44] A. C. Carniel, A. D. A. Sá, V. H. P. Brisighello, M. X. Ribeiro, R. Bueno, R. R. Ciferri, and C. D. de A. Ciferri, “Query Processing over Data Warehouse using Relational Databases and NoSQL,” in *XXXVIII Conferencia Latinoamericana EnInformatica (CLEI)*, 2012, pp. 1–9.
- [45] H. Fatima and K. Wasnik, “Comparison of SQL , NoSQL and NewSQL Databases for Internet of Things,” in *IEEE Bombay Section Symposium (IBSS)*, 2016.
- [46] P. Nikam, T. Patil, G. Hungund, A. Pagar, A. Talegaonkar, and M. S. Pawar, “Migrate and Map : A Framework to Access Data from Mysql , Mongodb or Hbase Using Mysql Queries,” *IOSR J. Comput. Eng.*, vol. 18, no. 3, pp. 13–17, 2016.
- [47] G. Liyanaarachchi, L. Kasun, M. Nimesha, K. Lahiru, and A. Karunasena, “MigDB – Relational to NoSQL mapper,” in *IEEE International Conference*, 2016.
- [48] G. Zhao, Q. Lin, L. Li, and Z. Li, “Schema Conversion Model of SQL Database to NoSQL,” in *Ninth International Conference on P2P, Parallel, Grid, Cloud and Internet Computing*, 2014, pp. 355–362.



- [49] S. Ghule and R. Vadali, “Transformation of SQL system to NoSQL system and performing Data Analytics using SVM,” in *International Conference on Trends in Electronics and Informatics ICEI 2017*, 2017, pp. 883–887.
- [50] V. Seshagiri, M. L. Vadaga, J. J. Shah, and P. Karunakaran, “Data Migration Methodology From SQL To Column Oriented Databases (HBase),” *Int. J. Adv. Res. Comput. Eng. Technol.*, vol. 5, no. 11, pp. 2631–2635, 2016.
- [51] M. Hanine, A. Bendarag, and O. Boutkhoum, “Data Migration Methodology From Relational to NoSQL Database,” *Int. J. Comput. Electr. Autom. Control Inf. Engineering*, vol. 9, no. 12, pp. 2541–2545, 2015.
- [52] M. Potey, M. Digrase, G. Deshmukh, and M. Nerkar, “Database Migration from Structured Database to non- Structured Database,” *Int. J. Comput. Appl.*, pp. 1–3, 2015.
- [53] T. Vajk, P. Fehér, K. Fekete, and H. Charaf, “Denormalizing Data into Schema-free Databases,” in *IEEE 4th International Conference on Cognitive Infocommunications*, 2013, pp. 747–752.
- [54] M. Dagar, S. Mittal, and M. Singh, “Conversion from Relational-Based Database to Column-Based Database,” *Int. J. Sci. Res. Comput. Sci.*, vol. 1, no. 1, pp. 29–35, 2013.
- [55] G. Zhao, L. Li, Z. Li, and Q. Lin, “Multiple Nested Schema of HBase for Migration from SQL,” in *Ninth International Conference on P2P, Parallel, Grid, Cloud and Internet Computing*, 2014, pp. 338–343.
- [56] G. L. Sanders and S. Shin, “Denormalization Effects on Performance of RDBMS,” in *Hawaii International Conference on System Sciences*, 2001, pp. 1–9.
- [57] D. Bermbach and M. Steffen, “Informed Schema Design for Column Store-based Database Services,” in *IEEE 8th International Conference on Service-Oriented Computing and Applications*, 2015, pp. 163–172.
- [58] F. Holzschuher and R. Peinl, “Querying a graph database – language selection and performance considerations,” *J. Comput. Syst. Sci.*, vol. 82, no. 1, pp. 45–68, 2016.
- [59] S. H. Abutorabi, M. Rezapour, M. Moradi, and N. Ghadiri, “Performance



evaluation of SQL and MongoDB databases for big e-commerce data,” in *CSICSSE*, 2015.

- [60] S. Chickerur, A. Goudar, and A. Kinnerkar, “Comparison of Relational Database with Document-Oriented Database (MongoDB) for Big Data Applications,” in *IEEE 8th International Conference on Advanced Software Engineering & Its Applications Comparison*, 2015, pp. 41–47.
- [61] K. K. Lee, W. Tang, and K. Choi, “Alternatives to relational database : Comparison of NoSQL and XML approaches for clinical data storage,” *Comput. Methods Programs Biomed.*, vol. 110, no. 1, pp. 99–109, 2012.
- [62] S. Kontopoulos and G. Drakopoulos, “A space efficient scheme for persistent graph representation,” in *IEEE 26th International Conference on Tools with Artificial Intelligence*, 2014, pp. 299–303.
- [63] M. Yoon, H. il Kim, M. Jang, and J. W. Chang, “Linear Function based Transformation Scheme for Preserving Database Privacy in Cloud Computing,” in *International Conference on Parallel and Distributed System*, 2013, pp. 498–503.
- [64] V. S. Kushwah and A. Saxena, “A Security approach for Data Migration in Cloud Computing,” *Int. J. Sci. Res. Publ.*, vol. 3, no. 5, pp. 1–8, 2013.
- [65] Z. Parker, S. Poe, and S. V Vrbsky, “Comparing NoSQL MongoDB to an SQL DB,” in *ACMSE'13*, 2013.
- [66] L. Cai, S. Huang, L. Chen, and Y. Zheng, “Performance Analysis and Testing of HBase Based on Its Architecture,” in *IEEE 12th International Conference on Computer and Information Science (ICIS), IEEE/ACIS*, 2013, pp. 353–358.
- [67] M. S. Rahman, *Basic Graph Theory*. Springer, 2017.
- [68] A. Silberschatz, H. F. Korth, and S. Sudarshan, *Database System Concepts*, 6th ed. McGrawHill, 2011.
- [69] J. A. Hoffer, V. Ramesh, and H. Topi, *Modern Database Management*, 11th ed. Pearson, 2015.
- [70] Sutedi, T. B. Adji, and N. A. Setiawan, “Enhanced Graph Transforming Algorithm to Solve Transitive Dependency between Vertices,” in



International Conference on Signals and Systems (ICSigSys), 2017, pp. 250–255.

- [71] Sutedi, N. A. Setiawan, and T. B. Adji, “Enhanced Graph Transforming V2 Algorithm for Non-Simple Graph in Big Data Pre- Processing,” *IEEE Trans. Knowl. Data Eng.*, vol. 4347, no. XX, pp. 1–11, 2018.
- [72] R. Sureshkumar, V. Vijayakaran, and S. Tt, “Ontology based Secured Data Migration,” in *International Journal of Modern Engineering Research (IJMER)*, 2012, vol. 2, no. 3, pp. 1343–1347.
- [73] R. Elmasri and S. B. Navathe, *Fundamental Of Database System*, 7th ed. Pearson, 2016.