

## REFERENCES

- Androutsopoulos, I., Ritchie, G. D., & Thanisch, P. (1995). Natural language interfaces to databases: An introduction. *Natural Language Engineering*, 1(1), 29-81. <https://doi.org/10.1017/S135132490000005X>
- Baig, M. S., Sher, T., Rehman, A., & Sheikh, S. (2025). A systematic literature review of text-to-SQL: Performance, challenges, and limitations. *ICCK Transactions on Advanced Computing and Systems*, 2(1), 1-24. <https://doi.org/10.62762/TACS.2025.497935>
- Bhagia, Y., Abbas, S. M., Kumar, S., & Maheshwari, S. (2024). Conversational AI: A survey. *International Research Journal of Engineering and Technology*, 11(4), 833-842.
- Du, X., Hu, S., Zhou, F., Wang, C., & Nguyen, B. M. (2025). FI-NL2Py2SQL: Financial industry NL2SQL innovation model based on Python and large language model. *Future Internet*, 17(1), 12.
- International Organization for Standardization & International Electrotechnical Commission. (2016). Systems and software engineering. Systems and software Quality Requirements and Evaluation (SQuaRE).
- International Organization for Standardization. (2018). Ergonomics of human-system interaction. Part 11: Usability: Definitions and concepts (ISO 9241-11:2018).
- International Organization for Standardization & International Electrotechnical Commission. (2023). Systems and software engineering. Systems and software Quality Requirements and Evaluation (SQuaRE). Product quality model (ISO/IEC 25010:2023).
- Jurafsky, D., & Martin, J. H. (2026). Large language models. In *Speech and language processing: An introduction to natural language processing, computational linguistics, and speech recognition* (3rd ed. draft, Chapter 7). <https://web.stanford.edu/~jurafsky/slp3/>
- Kamath, U., Keenan, K., Somers, G., & Sorenson, S. (2024). Retrieval-augmented generation. In *Large language models: A deep dive. Bridging theory and practice* (pp. 275-313). Springer.

- Khan, M. A., Shaikh, H. A., Karovalia, I., Jha, A., & Shanker, V. (2025). Natural language SQL querying via LangChain and AI agent. *International Journal of Creative Research Thoughts*, 13(4), d723-d731.
- Kobeissi, M., Assy, N., Gaaloul, W., Defude, B., & Haidar, B. (2021). An intent-based natural language interface for querying process execution data. In *2021 3rd International Conference on Process Mining (ICPM)* (pp. 152-159). IEEE. <https://doi.org/10.1109/ICPM53251.2021.9576850>
- Koutrika, G. (2024). Natural language data interfaces: A data access odyssey. In *27th International Conference on Database Theory (ICDT 2024) (LIPIcs, Vol. 290, Article 1, pp. 1:1-1:22)*. Schloss Dagstuhl - Leibniz-Zentrum für Informatik. <https://doi.org/10.4230/LIPIcs.ICDT.2024.1>
- Lewis, P., Perez, E., Piktus, A., Petroni, F., Karpukhin, V., Goyal, N., Küttler, H., Lewis, M., Yih, W., Rocktäschel, T., Riedel, S., & Kiela, D. (2020). Retrieval-augmented generation for knowledge-intensive NLP tasks. *Advances in Neural Information Processing Systems*, 33, 9459-9474.
- Li, B., Luo, Y., Chai, C., Li, G., & Tang, N. (2024). The dawn of natural language to SQL: Are we fully ready? *Proceedings of the VLDB Endowment*, 17(11), 3318-3331.
- Mienye, I. D., Jere, N., Obaido, G., Ogunraku, O. O., Esenogho, E., & Modisane, C. (2025). Large language models: An overview of foundational architectures, recent trends, and a new taxonomy. *Discover Applied Sciences*, 7, Article 1027. <https://doi.org/10.1007/s42452-025-07668-w>
- Nielsen, J. (1993). *Usability engineering*. Academic Press.
- Ponnusamy, S. (2023). Evolution of enterprise data warehouse: Past trends and future prospects. *International Journal of Computer Trends and Technology*, 71(9), 1-6. <https://doi.org/10.14445/22312803/IJCTT-V71I9P101>
- Pourreza, M., & Rafiei, D. (2023). DIN-SQL: Decomposed in-context learning of text-to-SQL with self-correction. *Advances in Neural Information Processing Systems*, 36, 36339-36348.
- Quamar, A., Efthymiou, V., Lei, C., & Özcan, F. (2022). Natural language interfaces to data. *Foundations and Trends in Databases*, 11(4), 319-414. <https://doi.org/10.1561/19000000078>

- Scholak, T., Schucher, N., & Bahdanau, D. (2021). PICARD: Parsing incrementally for constrained auto-regressive decoding from language models. *Proceedings of the 2021 Conference on Empirical Methods in Natural Language Processing*, 9895-9901.
- Su, X., Gu, Y., Wang, P., Gu, W., Qi, L., & He, J. (2026). A robust natural language text-to-SQL generation framework with dynamic strategies based on LLMs. *Scientific Reports*, 16, Article 7892. <https://doi.org/10.1038/s41598-026-39128-9>
- Sura, R. (2025). Natural language interfaces for business intelligence at scale: A review. *International Journal of Science and Research Archive*, 15(3), 1702-1711. <https://doi.org/10.30574/ijrsra.2025.15.3.1772>
- Wang, B., Shin, R., Liu, X., Polozov, O., & Richardson, M. (2020). RAT-SQL: Relation-aware schema encoding and linking for text-to-SQL parsers. *Proceedings of the 58th Annual Meeting of the Association for Computational Linguistics*, 7567-7578.
- Zhao, X., Zhou, X., & Li, G. (2024). Chat2Data: An interactive data analysis system with RAG, vector databases and LLMs. *Proceedings of the VLDB Endowment*, 17, 4481-4484.