



OPPORTUNITY

To minimize query and reporting bottlenecks and errors that slow decision-making.

INNOVATION

A framework to simplify and democratize data queries and reporting with natural language and AI-guided automation.

SOLUTION

Speedminer Query with AI, based on InterSystems IRIS, frees users from manual SQL query writing. The AI integration handles even difficult queries with ambiguous field names and complex joins.

IMPACT

Query with AI has reduced reliance on IT and eliminated database bottlenecks. Overall, Speedminer enhances enterprise data access and decision-making, making it easier and faster for all staff to obtain the insights they need.

Speedminer Query with AI Converts Natural Language to SQL on One Platform with Unlimited Potential

In a single environment with unlimited potential, [Speedminer](#) converts natural language to SQL and unifies multiple AI models into a single hub, ensuring seamless interoperability, robust security, and enhanced business intelligence capabilities. In essence, users can simply ask questions in plain English, and Speedminer's AI will retrieve answers from databases or documents, generate visualizations, and produce comprehensive reports and analysis—all within one secure platform.

Simplifying and Accelerating Data Query and Reporting

Speedminer's innovative Query with AI, based on **InterSystems IRIS®** data platform, allows users to interact with databases through plain language queries and leaps over the struggles of traditional natural-language-to-SQL (NL2SQL) with implicit joins, complex relationships, and ambiguous field names. Speedminer addresses these challenges through a proprietary framework of domain-specific shortcuts and intelligent, precise, and relevant table relationships and field contexts. This ensures accurate handling of implicit joins, integration of extrinsic and intrinsic database functions, and generation of context-aware SQL queries, even across 10 to 30 interrelated tables. Manual SQL query writing has been superseded.

Speedminer's Transformative Impact

Speedminer's impact has been deep, especially in healthcare. Hospitals can now more efficiently identify and address issues like delayed lab test results and cost anomalies, instantly spotting bottlenecks to fix and prompting corrective actions to take. In non-healthcare settings, Query with AI streamlines administrative tasks, reducing the burden on IT departments and allowing organizations to focus on core operations. End users can generate reports on their own, eliminating back-and-forth with data teams. Users save between one to five hours per report, with some hospitals generating 10 to 50 reports per month. This reduction in time and effort not only improves operations but also empowers end users to query databases and generate reports independently, with high accuracy and reliability.



“We have a framework that makes it quite accurate to use natural language to query a structured database, which is actually quite a challenge here. The system will be able to plot out a chart, a 3D chart, for example, using human language like a block chart.”

“Many people in the industry struggle to make a natural language SQL accurate, and our framework enables them to do self-service and get the information they want. Our analytics help hospitals monitor profit margins and identify inefficiencies, such as a particular medication causing a loss due to a non-updated price.”

*Speedminer founder and CTO
Thomas How*

Key Features of Speedminer Technology

Speedminer’s features make it a robust and versatile AI hub:

NL2SQL enables plain language querying of enterprise databases, generating charts, visualizations, and advanced analytics automatically, based on user queries. NL2SQL makes data accessible and interactive to non-technical users, so they can gain deeper insights without writing complex SQL queries.

Vector search & RAG (retrieval-augmented generation) allow for deep analysis across various content types, including PDFs, documents, videos, audio, and images. This multilingual, semantic, and federated search brings powerful insights instantly, making it easier to extract valuable information from users’ vast data repositories. No piece of relevant data is overlooked.

A private AI chatbot supports many AI models, including DeepSeek, OpenAI, ChatGPT, Llama, Mistral, Claude, and Gemini. It runs securely on-prem, giving users full, secure control over data and model response comparisons, so they can select the most suitable AI models for their needs.

AI-powered ambient listening technology transcribes, diarizes, and analyzes live conversations in real time. AI clinical scribe in healthcare, support monitor in call centers, team scribe in meetings, and generator of after-encounter documentation—Speedminer can transcribe these and others in structured form for evaluation, later use, and storage.

More capabilities such as scraping company insights, financial news, and stock data to generate risk reports (CRM & HR AD); machine learning to develop models, including time series, recommendation engines, anomaly detection; and dynamic 3D and interactive visualization for deep insight.

About the Winner: Speedminer Sdn. Bhd.

Speedminer is an all-in-one AI platform that revolutionizes business intelligence and data management. By offering a wide range of solutions, including private AI chatbots, deep document analysis, and natural language to SQL conversion, Speedminer empowers businesses to harness the power of AI securely and efficiently. The platform provides a unified, 100% web-based environment where businesses can analyze data, integrate systems, and deploy AI models without compromising on data privacy or control.

About the InterSystems Impact Awards, Selected by an MIT Panel

Each year, select client organizations are recognized at the InterSystems READY conference for projects driving positive change. Nominations are evaluated by independent judges from MIT on three criteria:

- **Makes a significant difference**
- **Breaks new ground**
- **Sets an example**

To learn more about the InterSystems Impact Awards visit

<https://www.intersystems.com/intersystems-impact-awards/>.