

Quantitative Analytics Database in the cloud

Spend more time on data exploration, model building and querying with ready-to-use data in the cloud



Quants and data scientists often spend up to **80% of their time collecting, cleaning, and standardising data** from multiple sources before it can be used for quantitative analysis or model development.

At the same time, the need for differentiated strategies requires access to new and specialised datasets – but integrating proprietary or third-party data quickly remains a challenge. LSEG's Quantitative Analytics Database in the cloud provides the tools to:

Develop and test ideas with ready-to-use data

- Direct access to an integrated and normalised set of financial data, reducing the need for manual preparation. It addresses variations in time frequencies, currencies and units, and adjusts for corporate actions. To help avoid look-ahead and survivorship bias, point-in-time values and data for delisted companies are included.
- The database can be linked to statistical packages such as SAS, MATLAB, R and S-PLUS, as well as programming languages like Python and C#.

Streamline analysis with a unified Security Master

- The database consolidates multiple identifier schemes (e.g., CUSIP, SEDOL, RIC, Bloomberg Ticker, BarraID, MSCI Security) into a single, consistent identifier. This enables easier analysis of securities linked to one entity and supports factor building across diverse data sources.
- Coverage includes multi-asset pricing, short interest, estimates, fundamentals, ownership, company events, deals, ESG, macroeconomics, indices and classifications, sourced from providers such as LSEG, S&P, MSCI and Russell.

Integrate proprietary content efficiently

- The database simplifies mapping proprietary data to time series datasets, leveraging extensive identifier histories (e.g., CUSIP, SEDOL). This reduces time and effort in synchronising internal and external data.
- When deployed across platforms such as Databricks and Snowflake, customers can use data-sharing capabilities to combine their own data with LSEG content and run queries directly within their analytics environments.

Backtest over multiple economic cycles with dependable timestamps and point-in-time data

- The database offers extensive historical coverage of multi-asset pricing, company data and constituent lists, supporting model testing under varied market conditions. Point-in-time data, restated values and delisted company information help ensure accurate backtesting without look-ahead or survivorship bias.

Access data as a managed cloud service

- The database can be provisioned in days across a range of cloud platforms, including Azure and AWS S3, enabling rapid access for quantitative, analytics and machine learning workflows. It can then be accessed within proprietary analytics environments such as Databricks and Snowflake.
- Furthermore, LSEG manages updates and maintenance, reducing infrastructure requirements and avoiding capital lock-in.

Delivery options

Quantitative Analytics Database (QAD) is available in a variety of environments:

1. Client managed

- LSEG QAD: Deployed (On-Premise)
- LSEG QAD: Deployed (Hosted)

2. Product-as-a-service

- LSEG QAD: Cloud platforms (Azure, AWS S3), with access via analytics environments such as Databricks and Snowflake

Content highlights in Quantitative Analytics Database

Vendors including LSEG, MSCI, Russell, S&P, Compustat, NYSE, NASDAQ, FTSE and Axioma provide:

- LSEG StarMine models
- LSEG environmental, social and governance (ESG) data
- MarketPsych Analytics
- Time series pricing data: equities, fixed income, derivatives
- Index prices, constituents and weights
- Security identifiers
- Sector and industry classifications
- LSEG I/B/E/S Estimates
- LSEG Worldscope Fundamentals
- Mergers and acquisitions
- Ownership and insider data
- Company events
- Short interest
- LSEG Datastream macroeconomic indicators

Learn more about our [Quantitative Analytics Database](#).

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