



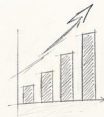
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FINANCIAL DATA INTELLIGENCE

*Better Data
Brighter Decisions
A Smarter Tomorrow*

Modern Data Architecture for Finance

From Storage & Reporting to Intelligent, AI-Ready Data Architecture

A practical finance learning journey through file formats, storage, table layers, catalogs, compute engines and business-ready reporting.



*Data Architecture
Drives
Better Finance*

- ✓ Ingest
- ✓ Store
- ✓ Organize
- ✓ Query
- ✓ Analyse
- ✓ Visualize
- ✓ Create Impact



*Learn
Build
Apply
Grow*





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Why the Shift?

How the data world has changed from storage and reporting to intelligent, AI-ready data architecture.

*New Era
Same Data
Bigger Possibilities*

*Same Data
A Smarter
Future*



*People
Data
Progress
Together*

THEN

Yesterday's Approach



Storage & Reporting

Data was stored in silos and used mainly for historical reports.



Monolithic Warehouse

Centralized, rigid systems with high cost and limited flexibility.



Batch ETL

Data was processed in scheduled batches, taking hours or days to be available.



IT-Owned Data

Data was managed primarily by IT teams, with limited access for business users.



Periodic Decisions

Decisions were based on historical data, made weekly, monthly or quarterly.

NOW

Today's Advantage



Intelligence & AI

Data fuels real-time insights, advanced analytics and AI-driven decisions.



Open Lakehouse

Flexible, scalable platforms that unify structured and unstructured data.



Streaming + ELT

Real-time and near real-time data pipelines deliver fresh data continuously.



Business-Owned Data

Self-serve data access empowers business teams to explore, analyze and act.



Continuous Decisions

Always-on insights enable faster, smarter, data-driven decisions in real time.

From Data to a Smarter Tomorrow

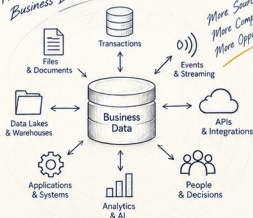


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The Real Challenges Companies Face

Modern business data is no longer one neat table — it's a network of transactions, events, files, APIs and decisions.

The Modern Business Data Ecosystem



Volume

Data is exploding.

From transactions, logs, documents and customer interactions — businesses now manage data at unprecedented scale.



Velocity

Data never stops.

Real-time transactions, streaming events and continuous updates demand faster processing and near real-time insights.



Variety

Many formats. Many sources.

Structured tables, semi-structured files, unstructured documents, APIs and third-party data all need to work together.



Versioning

Data changes over time.

Multiple versions, historical records and slowly changing data make it difficult to maintain a single, trusted view.



Governance

Trust is essential.

Data must be secure, compliant, well-documented and traceable across the entire lifecycle.



Cost & Speed

Do more with less.

Growing data volumes increase infrastructure costs, while the business demands faster answers and greater efficiency.



AI Readiness

Good data powers AI.

AI and advanced analytics require clean, connected, well-governed data — ready for scale, not stuck in silos.



Same Data, Bigger Possibilities



From Complexity...



...to Clarity

Clarity, Confidence, Faster Insights, Greater Impact



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Layered View of the Modern Data Architecture

Each tool belongs to a layer. The confusion reduces once the layers are visible.

*Different Tools
A Clearer Picture
Stronger Decisions*



*Learn
Build
Apply
Grow*



*A Stronger Foundation for
Smarter Finance*

*Same Data
Bigger Possibilities*



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What Each Tool Actually Does

Converting tool names into simple business roles.



Apache Iceberg
THE TABLE MANAGER

Manages large analytical tables with high performance, versioning and time travel.



Pylceberg
THE PYTHON BRIDGE

Lets you work with Iceberg tables directly in Python for reading, writing and managing data.



DuckDB
THE SQL EXPLORER

A fast, lightweight database for running SQL queries directly on your data files.



Polars
THE DATA TRANSFORMER

A high-performance DataFrame library for fast and efficient data transformation in Python.



Spark / PySpark
THE SCALE ENGINE

Processes large datasets in parallel, from simple ETL to advanced analytics.



Nessie
THE DATA GIT

Adds version control and collaboration for your data, just like Git for code.



Power BI
THE INSIGHT BUILDER

Turns your data into interactive reports and dashboards for better decisions.



AI Assistant
THE KNOWLEDGE GUIDE

Helps you ask questions, explore data and get instant insights using natural language.



One-line logic

Iceberg manages the table. Pylceberg opens it in Python. DuckDB queries it with SQL. Polars transforms it fast. Spark scales it. Power BI and AI explain it.

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Bigger Possibilities*

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Why Finance Wins

Where finance professionals turn modern data architecture into measurable value.



Translator Role

Bridge business, finance and technology with a common data language that drives alignment and faster outcomes.



Own the Definitions

Establish trusted, consistent financial definitions across systems, reports and teams to ensure everyone works from the same truth.



Drive Reconciliation

Bring together data from multiple sources, reduce manual effort and enable faster, more accurate reconciliations.



Governed Self-Serve

Enable finance teams with trusted, easy-to-access data products, with the right governance, access and lineage built in.



Controls in Pipelines

Embed data quality, validation and auditability directly into data pipelines for reliable and compliant financial reporting.



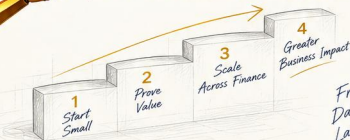
Lead AI-Ready Decisions

Build a modern, scalable data foundation that empowers AI and advanced analytics for better forecasts, insights and strategic decisions.



Where to start

Pick one closing-cycle pain point — for example, reconciliations, accruals or reporting — and build a governed dataset that fixes it. Start small, prove value, then scale across the finance function.



*Same Data
Bigger Possibilities*

From Data to Lasting Impact

Thank You

Modern Data Architecture for Finance

Build governed, versioned, explainable and decision-ready data products.