

Databricks SQL:
Intelligent Data
Warehousing
Slide Deck



carahsoft.

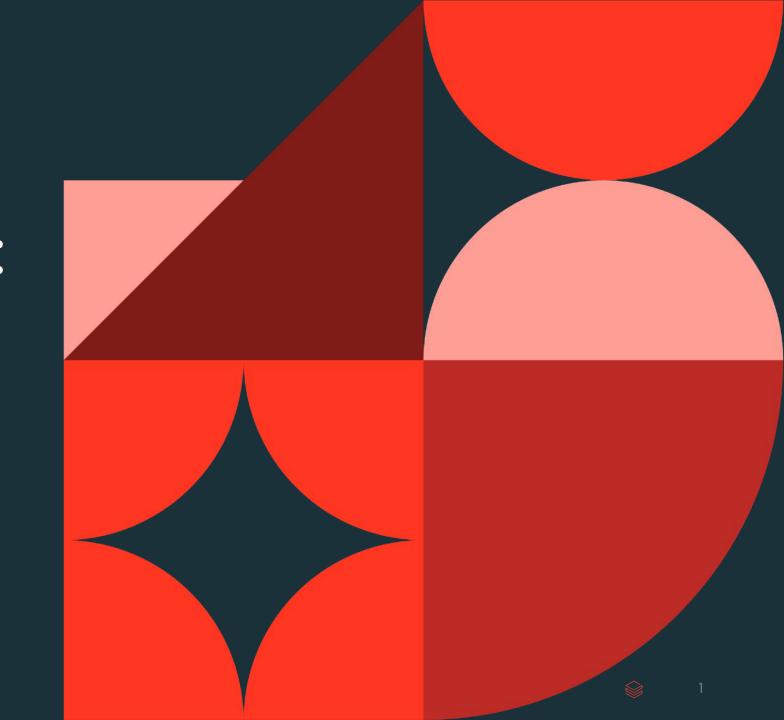


Databricks SQL: Intelligent Data Warehousing

Cary Moore/ Senior SSA

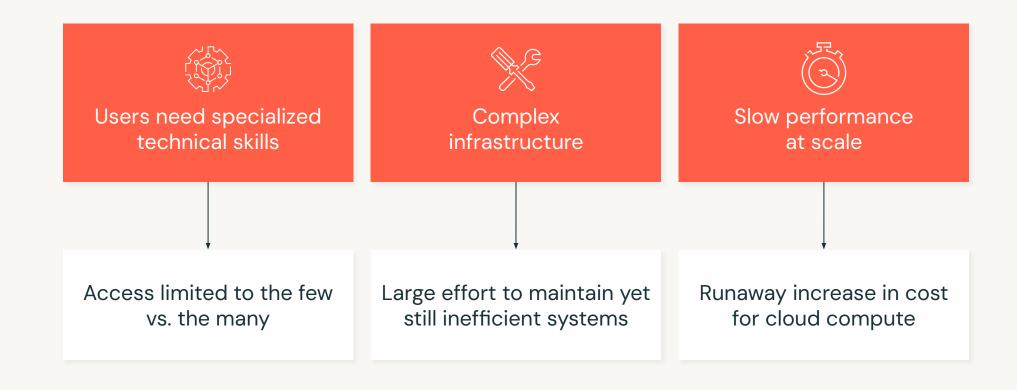
December, 2024

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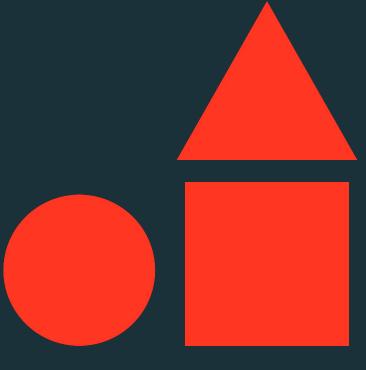
Al is changing everything—including data warehousing

Today, data warehousing is complex and expensive

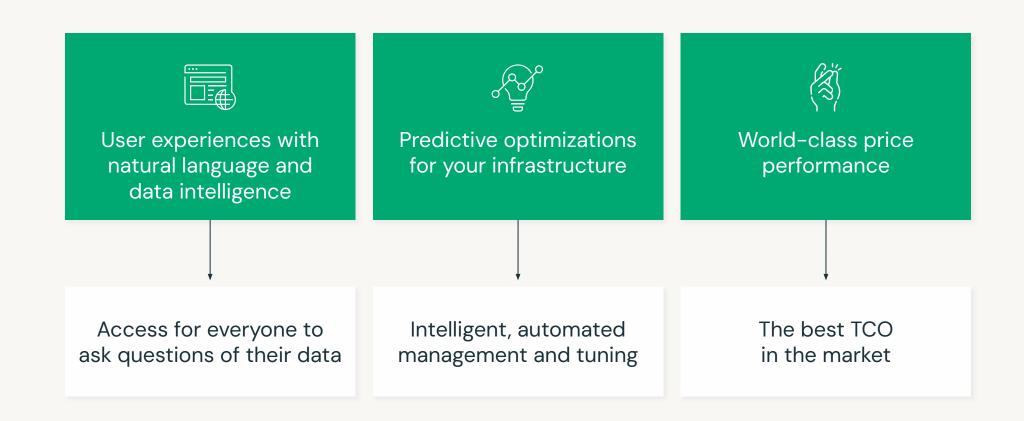


The new era of Al enables a new approach

Introducing intelligent data warehousing

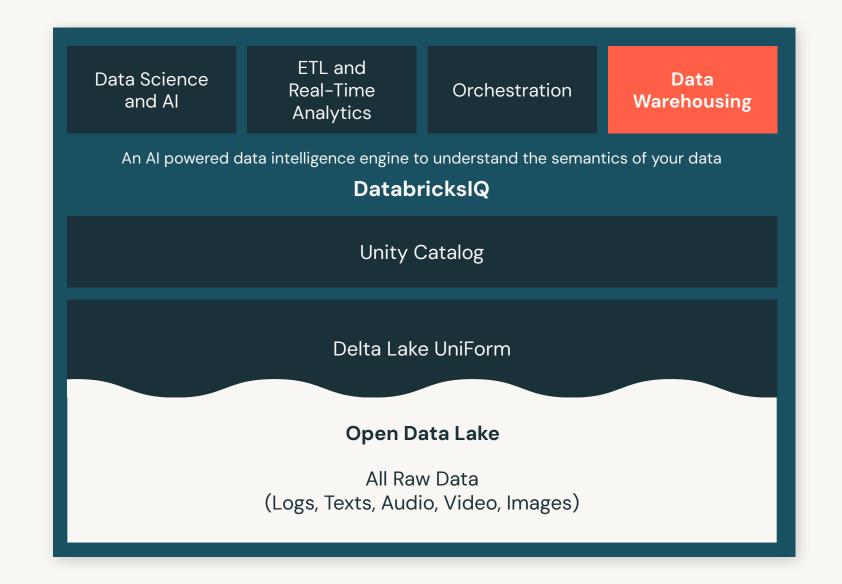


Introducing intelligent data warehousing





Databricks SQL intelligent data warehousing on the Data Intelligence Platform



Databricks SQL

Built on a lakehouse architecture

Unified architecture for all your data, BI and Al

Unified governance for all your data + Al assets

Unified data teams with SQL + Python for everyone

> Open data sharing and marketplace

Reduce costs with the only warehouse that doesn't create a new data silo

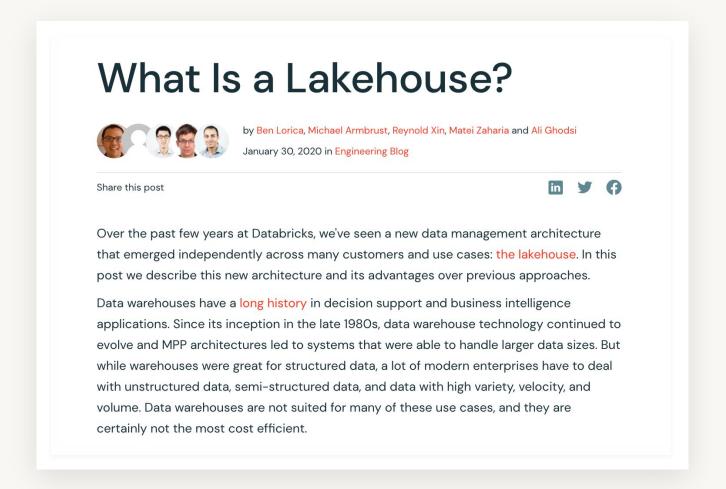
Simplify governance with a single source of truth

Improve productivity for people by working with SQL and Python together

Improve collaboration by securely sharing data + Al assets with anyone

Databricks SQL

Data warehousing on a lakehouse architecture is now standard



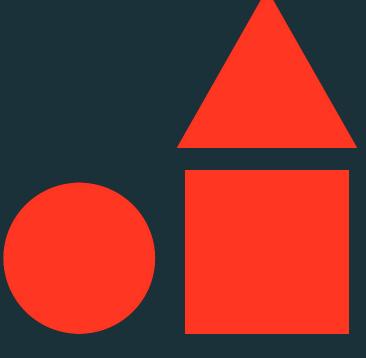


Databricks pioneered the lakehouse architecture

Today 74% of global enterprises have adopted lakehouse

MIT Technology Review Insights, 2023

Intelligent data warehousing with Databricks SQL



Three reasons why customers love Databricks SQL

Intelligent Experiences with built-in understanding of your data

Predictive Optimizations for all your workloads

Best Price/Performance for the lowest TCO

(1)

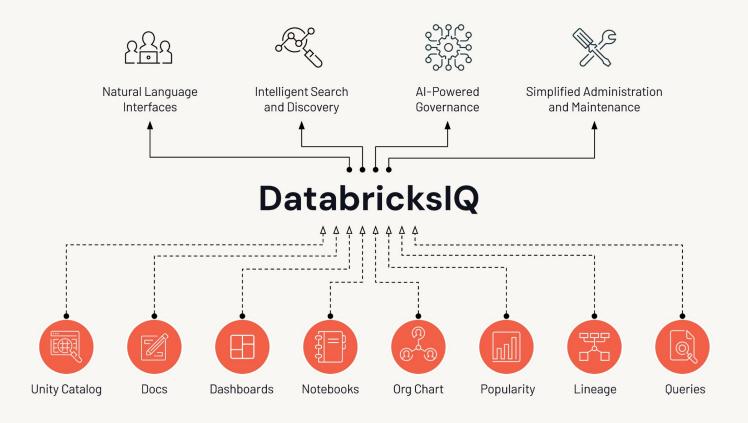
Intelligent experiences with built-in understanding of your data

DatabricksIQ

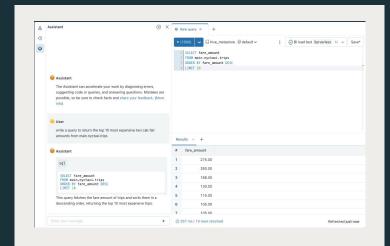
Apply AI to your data to increase productivity for every employee



Al that understands your data, your workloads and your business context to power natural language interfaces and the predictive optimization of the platform.

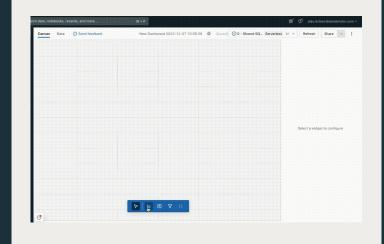


Intelligent experiences with natural language



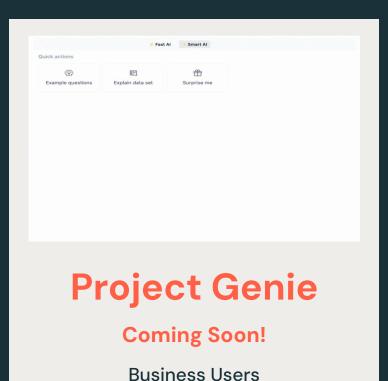
Data Science / Engineers

SQL Editor



Dashboards

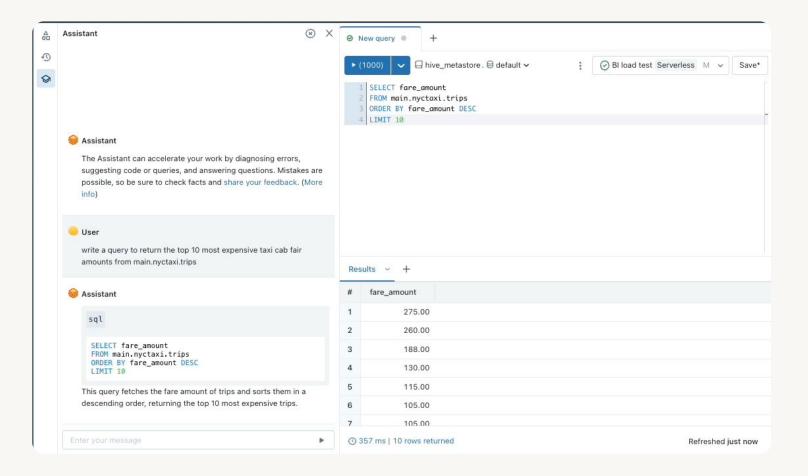
Analysts



Assistant in SQL Editor

Developers can create, explain and fix SQL code



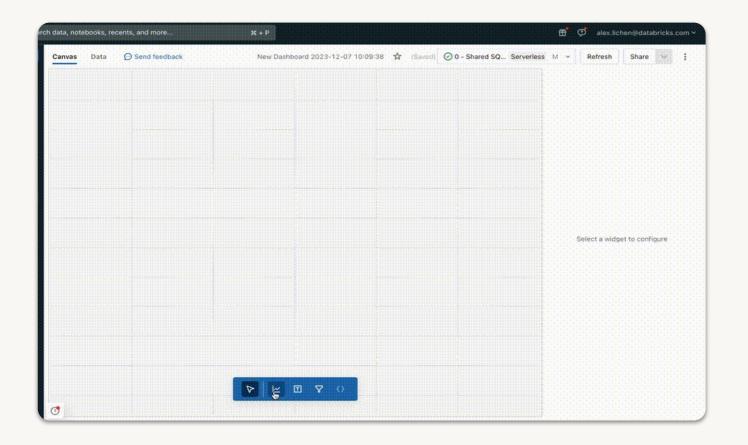


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Assistant in Dashboards

Analysts can generate visualizations using natural language

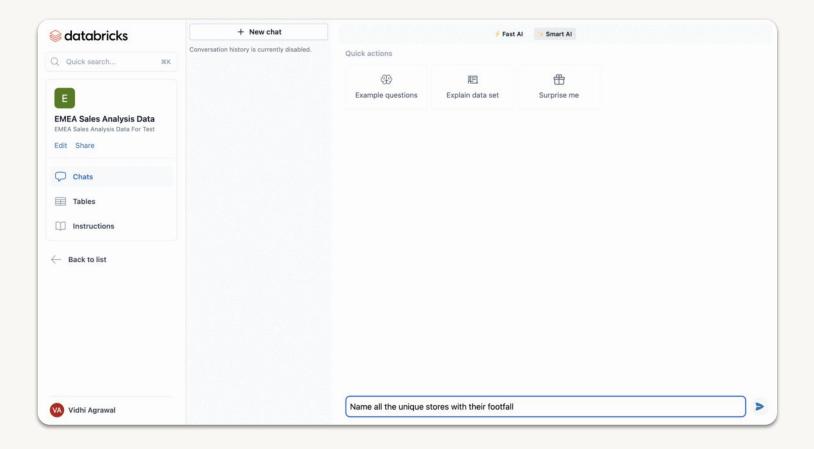




Project Genie

Business users can query and visualize data using natural language





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Predictive optimizations for all your workloads

Predictive optimizations in our engine

Powered by DatabricksIQ

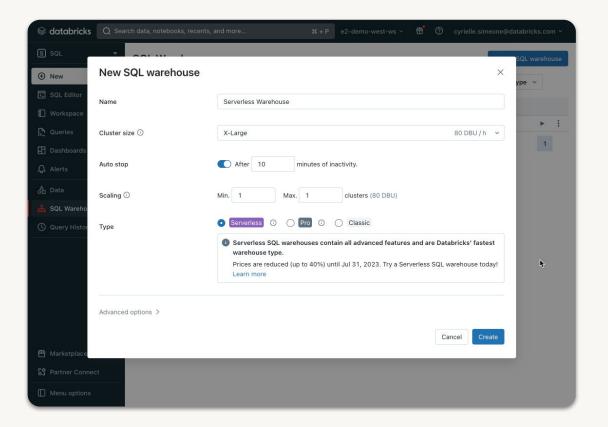


Databricks SQL Serverless

Instant, scalable compute for all your DW/BI workloads

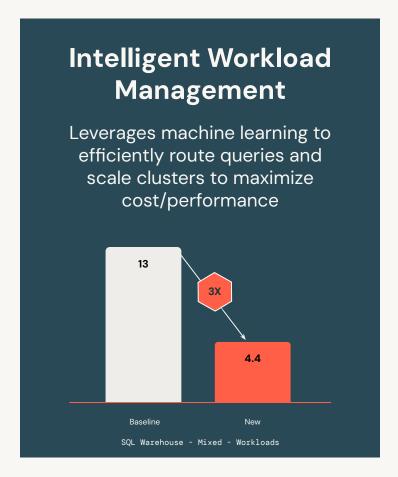


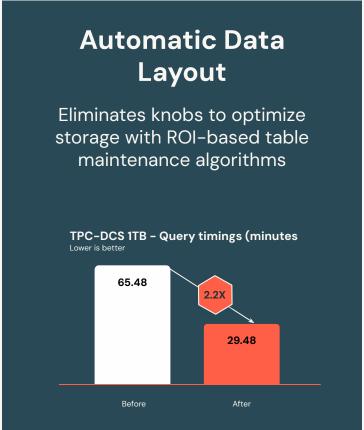
Get the best performance, lower costs, and focus on delivering value rather than managing infrastructure.

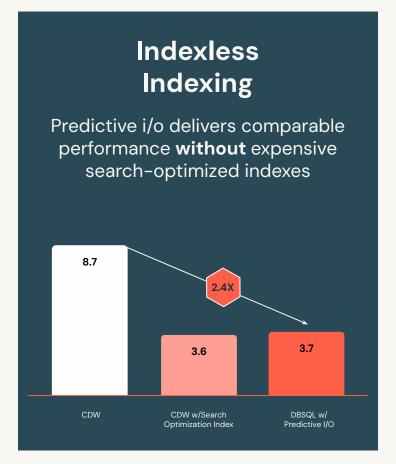


Predictive optimizations in our engine

Examples



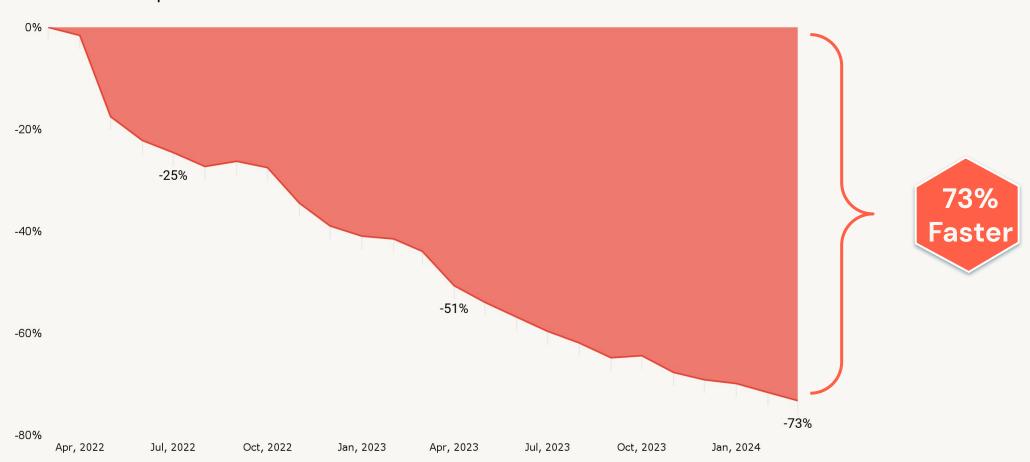




Performance improvements time

Customer Bl queries - improved 73% over last 2 years

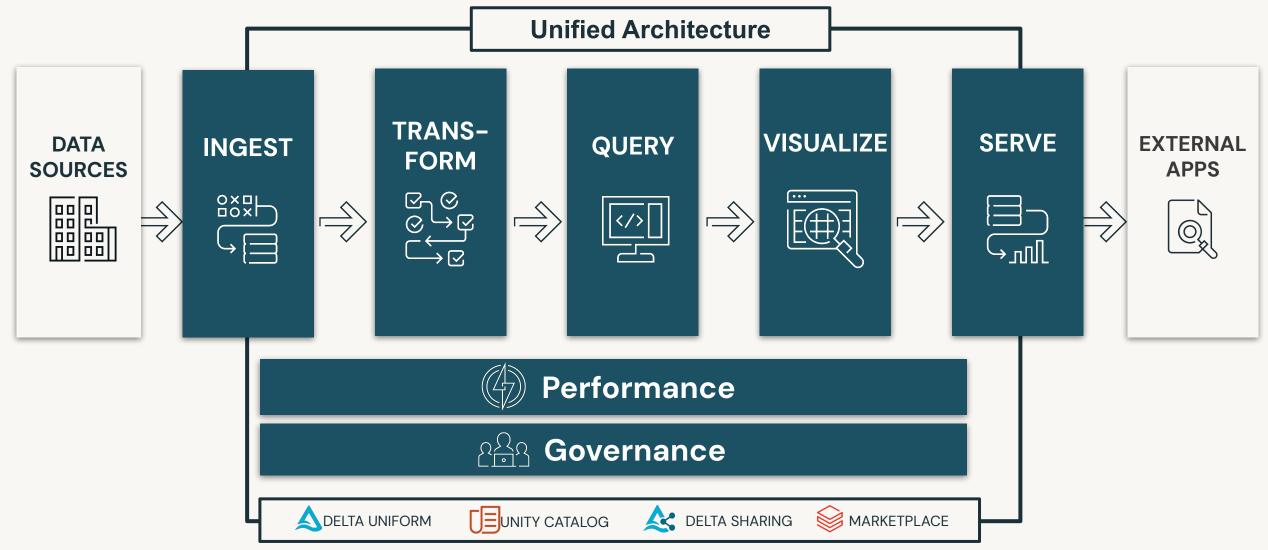
Performance Improvement over time





Your Data On Lakehouse
One Platform for ALL of your
Analytics

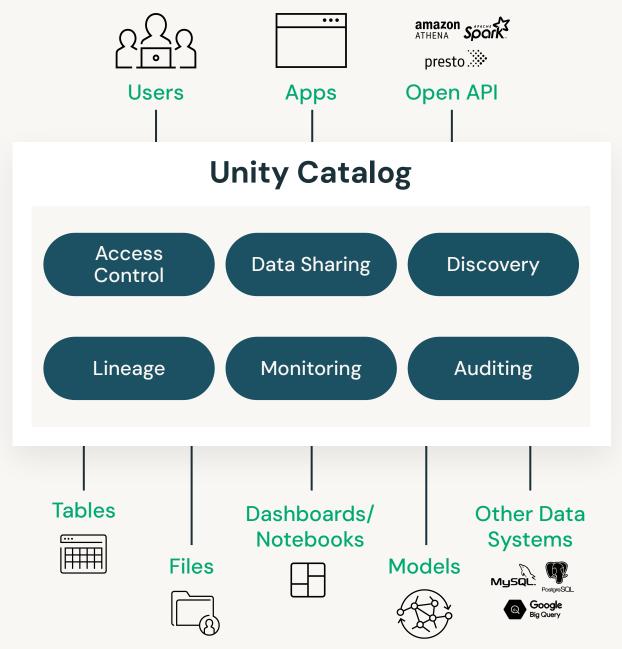
Complete Data Warehousing Solution



Databricks Unity Catalog

Unified governance, security and collaboration is the foundation for the

Data Intelligence Platform





Lakehouse Federation

Discover, query, and govern all your data—no matter where it lives

Build a unified view of your data estate

Query and combine all data efficiently with a single engine

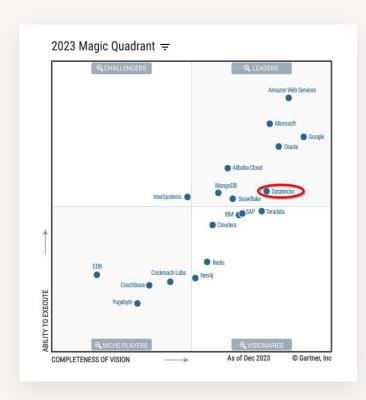
Safeguard data across data sources



Databricks recognized as a leader in the industry

Gartner MQ Leader

Database Management Systems





Forrester Wave Leader

Data Lakehouses 3

Best price/performance for the lowest TCO



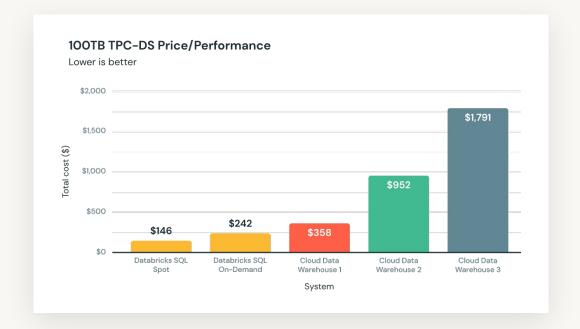
Photon Query Engine

Next-gen, vectorized query engine with world-record performance

Written from the ground up in C++, Photon takes advantage of modern hardware for faster queries, providing TPC world-record price/performance compared to other cloud data warehouses — all natively on your data lake.

Alexander Behm, Shoumik Palkar, Utkarsh Agarwal, Timothy Armstrong, David Cashman, Ankur
David Tadd Casametain Short Housemain Dura Johnson Agaid Sai Friehnon David Lougentie Alexanderic Short Housemain Dura Johnson Agaid Sai Friehnon David Lougentie Alexanderic Short Housemain Dura Johnson Agaid Sai Friehnon David Lougentie Alexanderic Short Housemain Dura Johnson Agaid Sai Friehnon David Lougentie Alexanderic Short Housemain Dura Johnson David Cashman, Ankur Alexander Behm, Shoumik Palkar, Utkarsh Agarwai, Timothy Armstrong, David Casnman, Ankur Dave, Todd Greenstein, Shant Hovsepian, Ryan Johnson, Arvind Sai Krishnan, Paul Leventis, Ala Leventee Drashguth Manon Moetafa Mokhtar Gana Dang Samaer Paraninus Gree Rahn, Rat Dave, Todd Greenstein, Shant Hovsepian, Ryan Johnson, Arving Sai Krishnan, Faui Levenus, Ala Luszczak, Prashanth Menon, Mostafa Mokhtar, Gene Pang, Sameer Paranjpye, Greg Rahn, Bart rrasnanin amenon, anostata anokittar, uene rang, bameer raranjpye, ureg katin, bi , Tom van Bussel, Herman van Hovell, Maryann Xue, Reynold Xin, Matei Zaharia







World-class performance & TCO

Meets or beats the price/performance of major CDWs across scales!

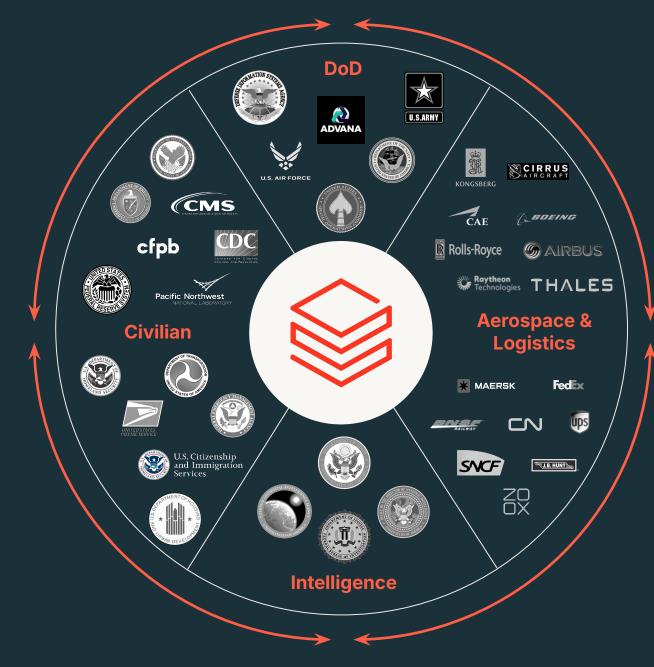
TPC-DS Elapsed Time (Lower is Better) 4x 3x R 2x 1x 0x 1 TB 3 TB 30 TB 100 GB 10 TB TPC-DS Total Cost (Lower is Better) ..5.2x 4x C 3x 0 2.2x 2x 1x 0x 100 GB 1 TB 3 TB 10 TB 30 TB

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Databricks

CDW 1 CDW 2

CDW 3 CDW 4



Databricks Federal

The Data + Al Company in Public Sector Established 2018

Databricks has more than 150 customers in the Public Sector including some of the largest Federal, State and Local agencies

Recognized leader by industry analysts:

- Forrester Wave: Al Foundation Models for Language
- Gartner Database Management Systems
- Gartner Data Science and ML Platforms

10,000+ customers globally including every DoD service branch and many large commercial organizations



SLED Customers Leading The Way

UNIVERSITY Office
OF of the
CALIFORNIA President

















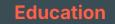












































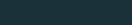




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LONG BEACH



















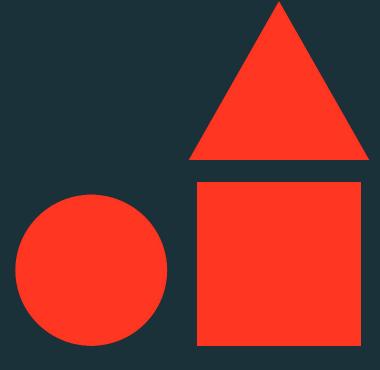


Public Works





Demo: Intelligent data warehousing with Databricks SQL



Q&A



Databricks SQL

Get started with intelligent data warehousing!



Try for free

www.databricks.com/try

\$400 free serverless credits

Learn more:

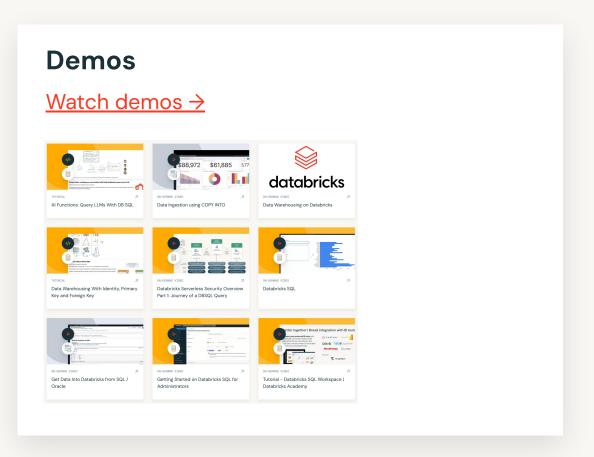
databricks.com/product/databricks-sql



Databricks SQL

Explore more resources

Virtual Event Watch → *⊗* databricks ☐ VIRTUAL Reynold Xin **Data Warehousing** in the Era of Al Using data intelligence to revolutionize data management Pearl Ubaru Narinder Singh Alex Lichen Gaurav Saraf



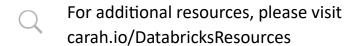
databricks

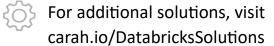


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