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How to use Databricks SQL for Analytics on Your Lakehouse

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Meet the Presenter

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Agenda

- Introduction & Key Capabilities of Databricks SQL (15 minutes)
- Hands-on Demo (50 minutes) + Break (10 minutes)
- Q&As (5 minutes)

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Databricks

The Data + AI Company

Inventor and pioneer of the
data lakehouse

Gartner recognized leader in both
- Database Management Systems
- Data Science and Machine Learning Platforms

Creator of highly successful OSS data projects: Delta Lake, Apache Spark, and MLflow

Raised over $3B in investment

3000+ employees across the globe

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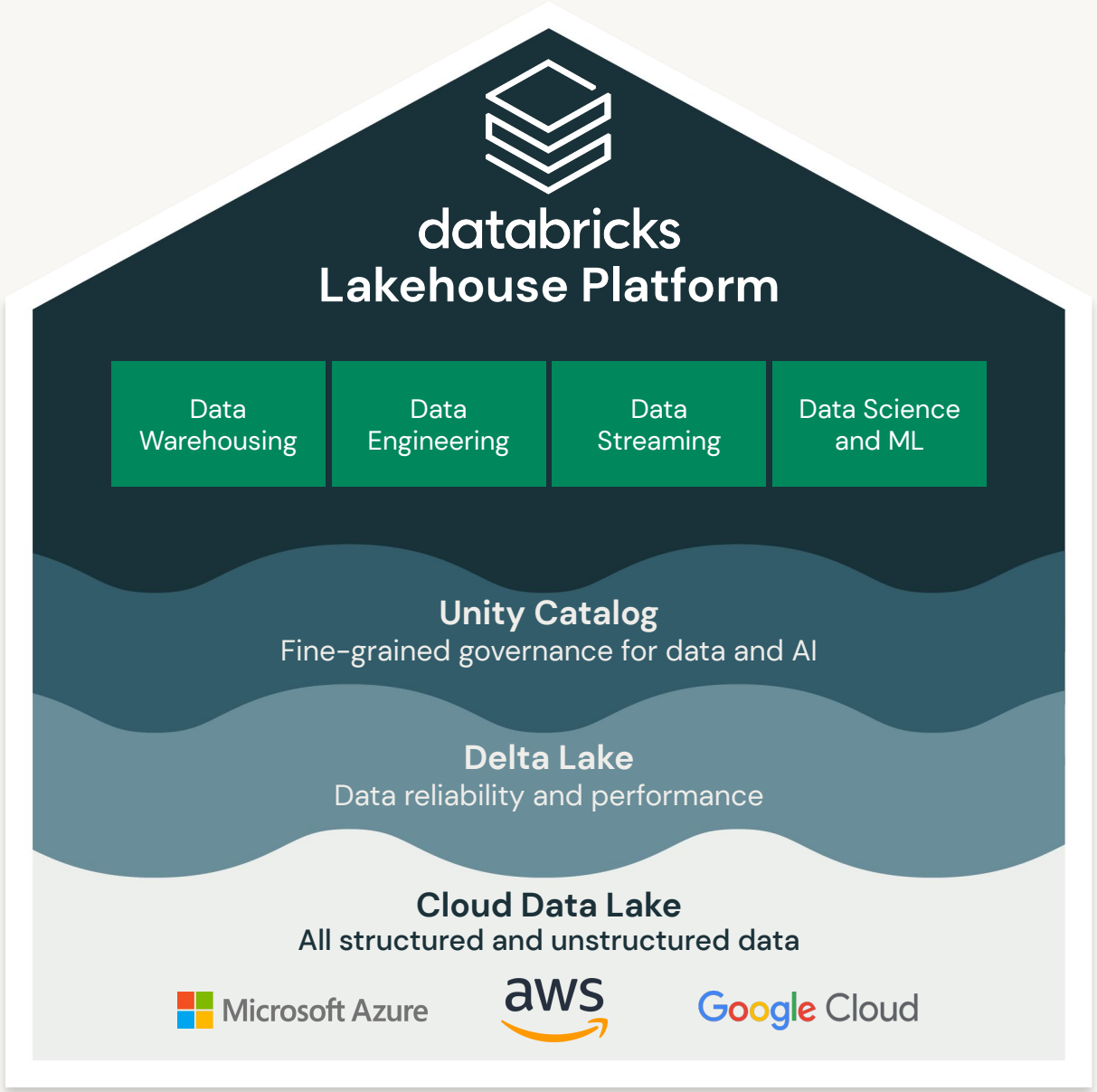
Global adoption

Over 6000 customers, from F500 to unicorns



Databricks Lakehouse Platform

Simple

Unify your data warehousing and AI use cases on a single platform

Open

Built on open source and open standards

Multi-cloud

One consistent data platform across clouds

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Introducing Databricks SQL

Data Warehousing on the Lakehouse

Serverless Compute

Lower costs, get the best price/performance, and eliminate the need to manage, configure or scale cloud infrastructure with serverless.

Bring your Own Tools

DB SQL works with your favorite tools. Easily connect Fivetran, dbt, PowerBI, or Tableau to ingest, transform and visualize all your latest data in-place.

Native SQL Experience

Enable every analyst in your organization to quickly discover and collaboratively query the latest data, mock-up interactive dashboards, and find new insights.

Built-in Governance

Confidently discover, access, and govern all your data using fine-grained governance and standard SQL, with built-in security and compliance.

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Key Capabilities

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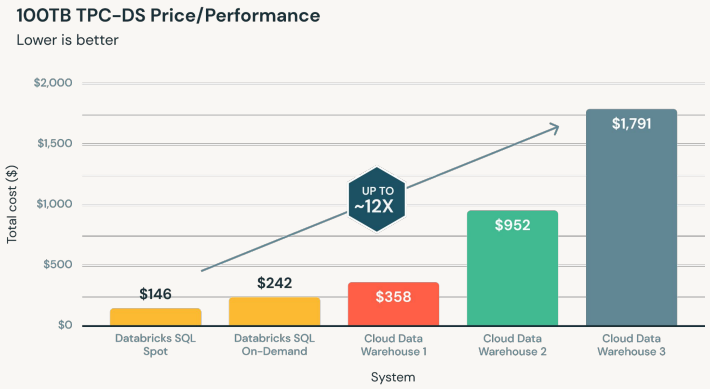
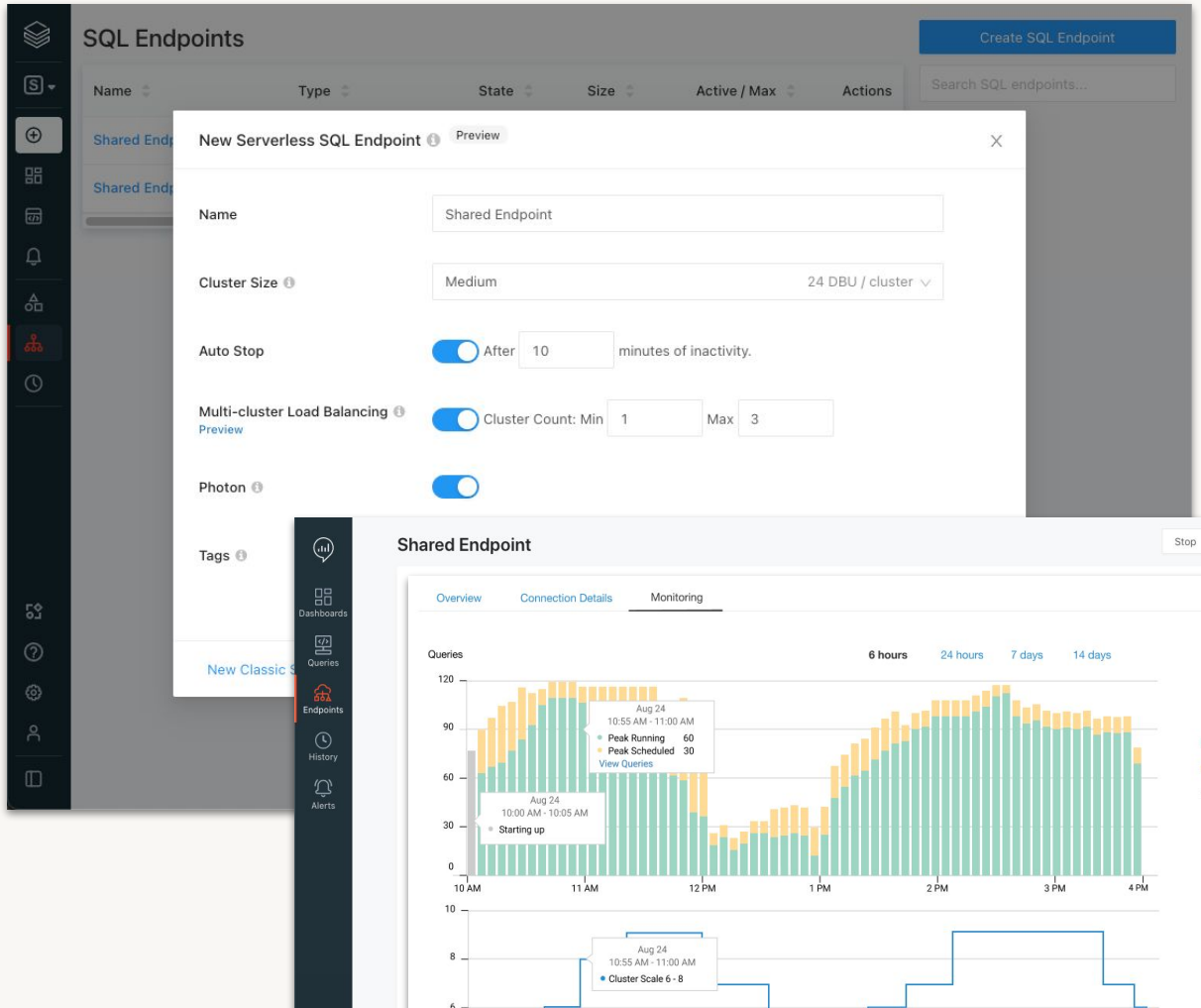
Eliminate resource management with serverless

Instant, elastic SQL compute decoupled from storage

Quickly setup instant, elastic SQL **serverless** compute – decoupled from storage – to free up time and resources. Databricks automatically determines instance types and configuration for the **best price/performance** through Photon.





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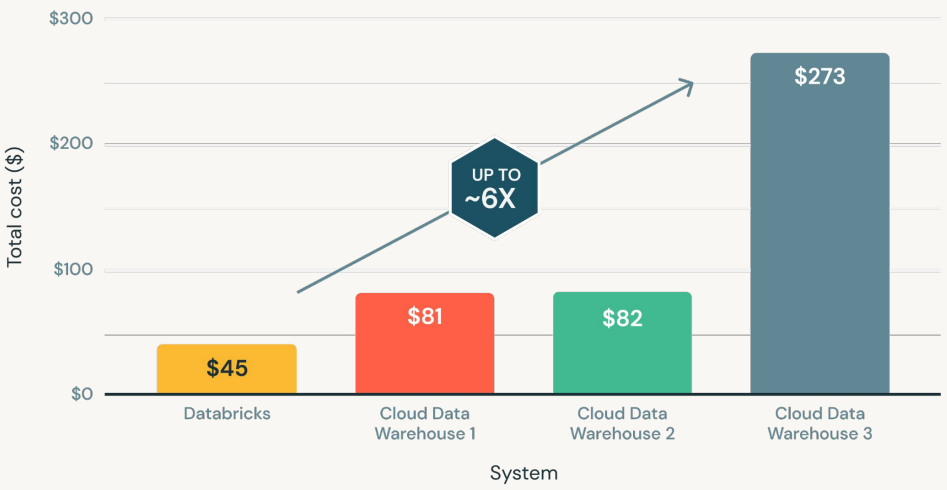
Built from the ground up for best performance

Lightning fast analytics

Query and analyze your most complete and freshest data with **up to 12x better price/performance** than cloud data warehouses.

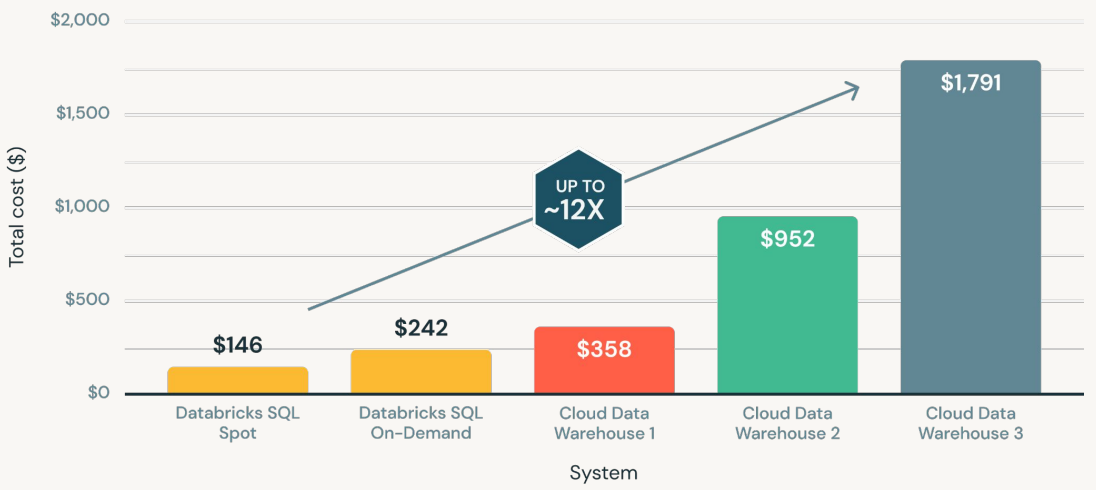
30TB TPC-DS Price/Performance

Lower is better



100TB TPC-DS Price/Performance

Lower is better



Source: Performance Benchmark with Barcelona Supercomputing Center

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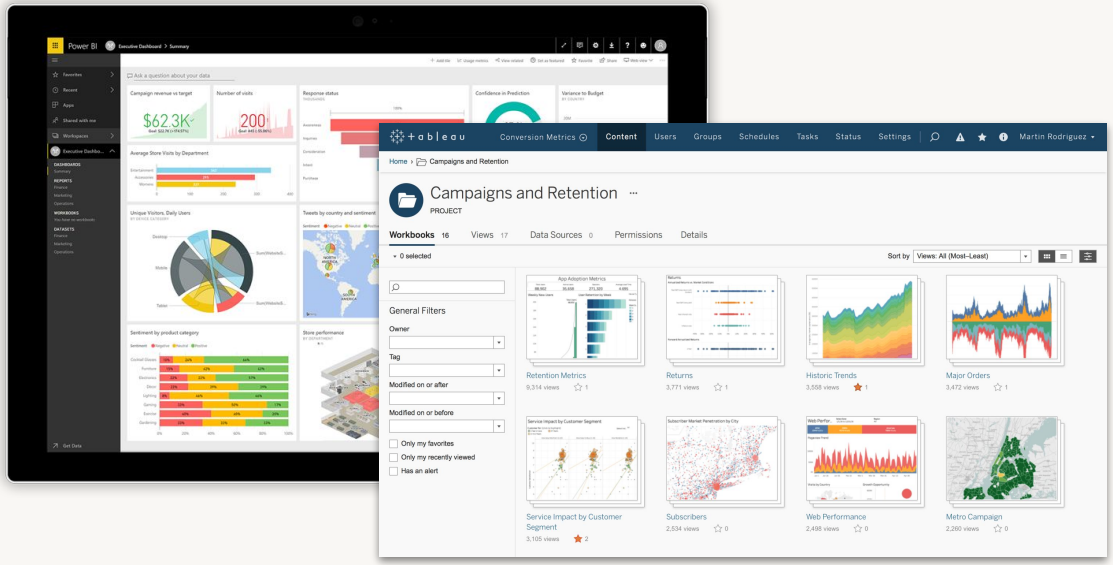
Modern analytics with your tools of choice

Seamless integration with the modern data stack

Easily **ingest** and **transform** data from cloud storage or business applications, and leverage **your existing BI tools** to query, analyze, and visualize new insights.



Ingest & ETL

dbt Fivetran

BI & Analytics

tableau Power BI

Qlik TIBCO Spotfire

MicroStrategy Looker

MODE ThoughtSpot

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First-class SQL development experience

Collaboratively query, explore, and transform data in-place

Query all your data using familiar **ANSI SQL**, and collaboratively find and share new insights faster with the built-in SQL query editor, alerts, visualizations, and interactive dashboards.

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Demo: Databricks SQL

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Databricks SQL Hands-on Demo

- Section 1: The Databricks SQL workspace
- Section 2: Import sample dashboard
- Section 3: SQL Warehouses & Understand Computation Resources
- Section 4: Explore database and tables, and data access controls
- Section 5: Create & execute queries and visualizations
- Section 6: Monitor a SQL Endpoint, query history, query performance
- Section 7: Configure alerts
- Section 8: Creating Dashboards

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Q&A

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Next steps

- Get started on Databricks SQL: https://databricks.com/product/databricks-sql
- Keep learning with self-paced training (free for customers) https://academy.databricks.com/
- Connect with me on LinkedIn: Pearl Ubaru

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