databricks

Databricks Fundamentals

What is the Databricks Lakehouse Platform?

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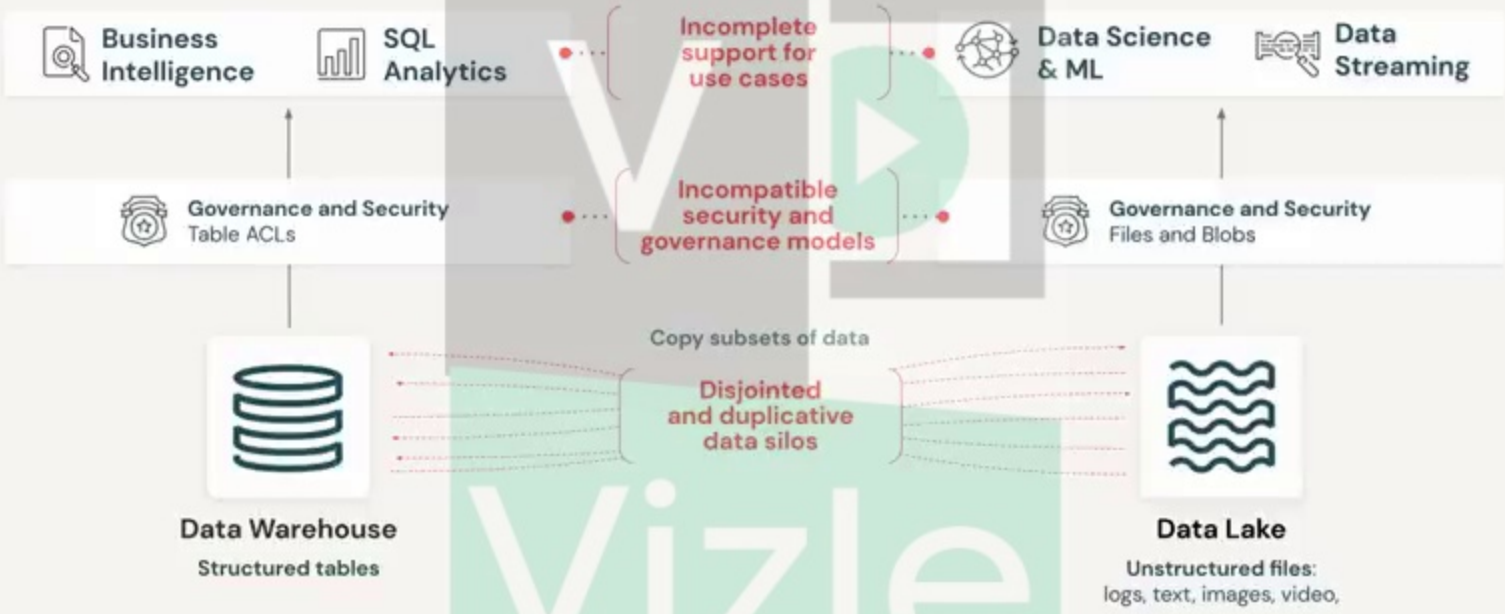

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Delta Lake Innovations

Innovation			Positive Business Impact
Reliability	→	**ACID Transactions**	Quality data accelerates innovation
Performance	→	Indexing	Lower TCO with a simple architecture
Performance			
Governance			Automation increases productivity
Governance			
Quality			Reduces security risk
Quality			

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Ensuring privacy for data practitioners

Optional customer-managed VPC/VNET

IP access lists

Code isolation

Private network between data and control planes

Secure cluster connectivity

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U.S. Department of Transportation

Challenge

USDOT wanted to improve air traffic operations by combining batch and streaming data sets across multiple providers to predict future commercial air traffic patterns

Solution

A Databricks lakehouse allowed USDOT to unify all of their data providers on one platform to enable both analysts and data scientists to quickly find insights and share models with airlines on an open platform

Impact

20%

improvement in forecast accuracy

90%

reduction in infrastructure costs

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