

BROCHURE

## Unlock Seamless Data Management with NuSummit's Azure SQLLake Framework

Revolutionize Your Data Lake Experience - Introducing SQLake



# Overview

In the ever-evolving landscape of data management, the Azure Generic Data Lake “SQLake” Framework emerges as a SQL-based, serverless, and configurable solution designed to redefine how we handle data ingestion, standardization, and business transformations within Data Lakes and Data Warehouses. As industries navigate the complexities of data integration and transformation, the demand for

an end-to-end data lake framework becomes paramount. Azure SQLake steps in as a versatile solution, accommodating the diverse needs of customers across domains. It seamlessly integrates into any Azure environment, offering a user-friendly framework grounded in one of the most widely used skills (SQL) in the industry.

## The Challenges



### Data Fragmentation

One of the primary challenges is the fragmentation of data processes across disparate systems and platforms. This lack of cohesion results in data silos, hindering a unified and holistic view of organizational information.



### Operational Inefficiencies

The absence of a unified framework often leads to operational inefficiencies. Data processes become disjointed and cumbersome, causing bottlenecks that impede the seamless flow of information crucial for decision-making.



### Security Vulnerabilities

Fragmented data management opens the door to security vulnerabilities. Without a consolidated solution, organizations face heightened risks of data breaches and unauthorized access, jeopardizing the confidentiality and integrity of sensitive information.



### Scalability Hurdles

Traditional data management approaches struggle with scalability, especially in the face of ever-growing volumes of data. Businesses find it challenging to adapt and scale their data infrastructure to meet evolving requirements.

# The Solution



## Unified Data Management:

SQLake provides a unified framework that acts as a centralized hub for data processes. From ingestion to validation, the framework ensures a seamless and efficient flow of data, breaking down silos and fostering collaboration across the organization.



## Enhanced Security Protocols:

With a serverless architecture and the integration of native Azure services, SQLake fortifies data security. It introduces robust security protocols that not only mitigate risks but also instill confidence in the confidentiality and integrity of organizational data.



## Scalability at its Core:

SQLake is designed with scalability in mind. Its architecture allows businesses to effortlessly scale their data infrastructure, accommodating the surge in data volumes without compromising performance. This ensures that organizations are well-prepared for future data challenges.



## Efficient Error Handling:

SQLake incorporates advanced exception handling mechanisms based on custom data validation rules. This proactive approach to error handling ensures that anomalies are detected and addressed in real-time, maintaining the reliability and accuracy of the data.



## Transparent Audit Mechanism:

The framework incorporates a robust audit mechanism for every incoming source entity. This transparency ensures accountability and traceability of data operations, providing organizations with the insights needed to maintain data quality standards.

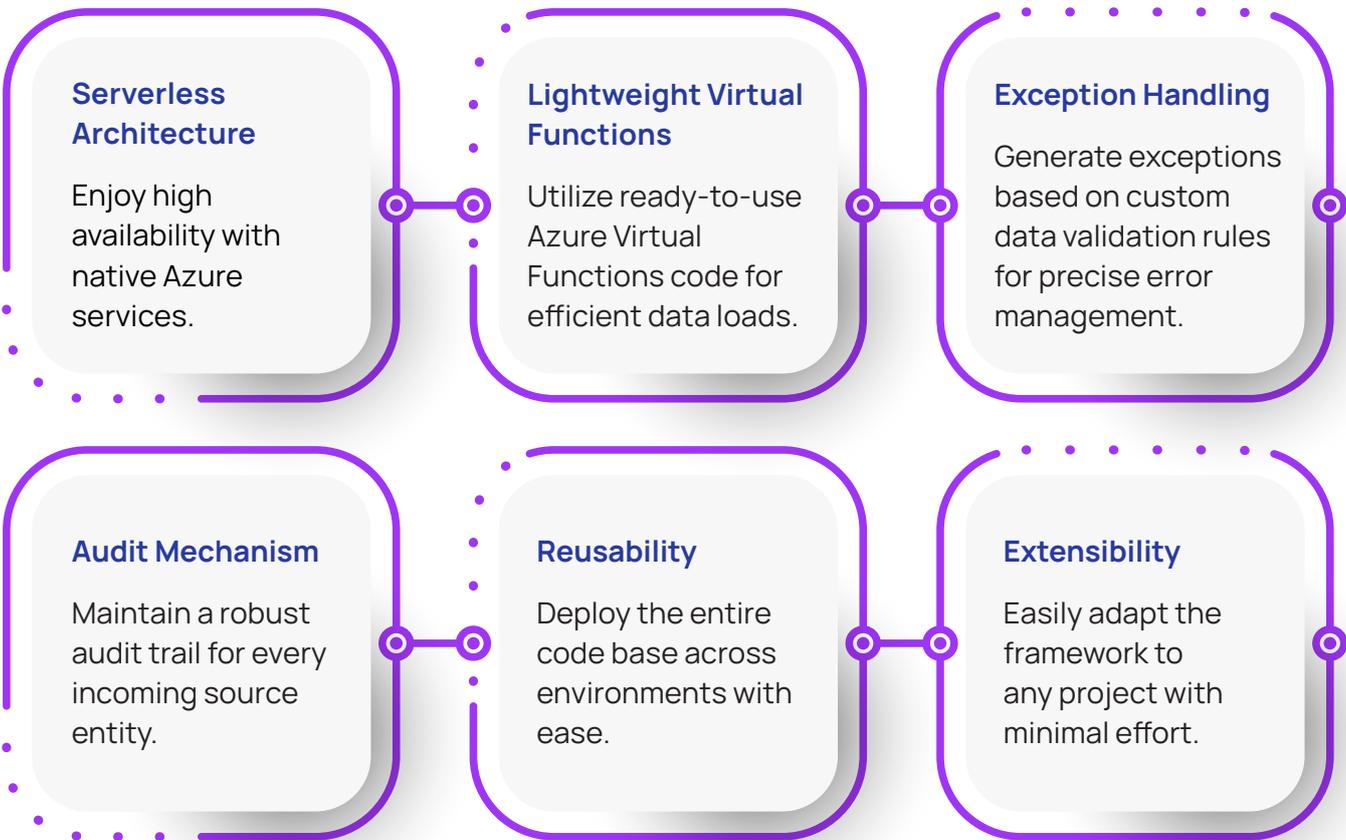


## Adaptable Code Base:

SQLake boasts a reusable code base that simplifies deployment across different environments. This adaptability ensures that organizations can seamlessly integrate the framework into various projects with minimal effort, promoting consistency in data management practices.

# The Features

Embark on a journey of data management excellence with SQLake's powerful features:



# The Features

Immerse yourself in a world of advantages with Azure SQLake:

## Accelerated ETL

### Implementation:

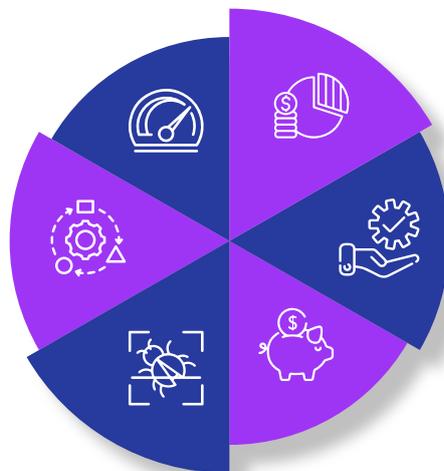
Reduce time to implement ETL processes by 15-20% during SDLC.

### Domain Agnostic:

Tailor the framework for any industry, making it versatile and adaptable.

### Defect Reduction:

Minimize manual intervention, reducing defect leakage during testing phases.



## Cost-Effective Development:

Leverage SQL for business transformations, eliminating the need for Python or Scala.

## Throughput Efficiency:

Achieve a throughput of ~25k records per second.

## Cost Savings:

Implementing Azure SQLake results in significant cost savings for customers.

# The NuSummit Edge

Partnering with NuSummit brings a unique advantage in implementing Azure SQLLake, ensuring a seamless and optimized experience:

1

## Customized Implementation

NuSummit tailors the SQLLake framework to align with your specific business requirements, ensuring a customized and optimized implementation.

2

## End-to-End Support

NuSummit offers comprehensive support throughout the implementation journey, from initial assessment to post-implementation maintenance, ensuring a hassle-free experience.

3

## Rapid Deployment

NuSummit's streamlined deployment process ensures a swift and efficient implementation, minimizing downtime and accelerating time-to-value.

4

## Expert Consultation

Benefit from the expertise of NuSummit's professionals who bring a wealth of experience in Azure environments, guiding you through the intricate process of implementing Azure SQLLake.

5

## Training and Knowledge Transfer

NuSummit provides training sessions and knowledge transfer to empower your team, ensuring they are well-versed in managing and optimizing Azure SQLLake.

6

## Continuous Optimization

Partnering with NuSummit means ongoing optimization, ensuring that your Azure SQLLake implementation evolves with your business needs and industry trends.



# About NuSummit

NuSummit is a global technology leader in AI-led digital transformation, specializing in applications, data, analytics, cloud, and cybersecurity. With over 300 clients worldwide, including 22 Fortune 500 companies, NuSummit supports organizations across industries. Our core expertise lies in banking, insurance, and capital markets, where we offer specialized solutions for these sectors.

With over two decades of experience and 3,000+ professionals, we deliver AI-driven, end-to-end solutions that integrate advanced cloud infrastructure and cybersecurity. Certified to top industry standards and backed by a robust partner ecosystem of hyperscalers and niche innovators, NuSummit is a trusted partner for secure, impactful digital innovation.

For more information, visit us at [connect@nusummit.com](mailto:connect@nusummit.com)

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