

Transforming Surveillance and Investigations in Capital Markets





Business Need

Our client, one of the world's leading exchanges, required the development of a robust data warehouse to serve the needs of its surveillance and investigation department. This data warehouse aimed to support reporting and visualization requirements for the following key objectives:

- Proactive market regulation
- Detection of improper trading practices
- Development of strategies to mitigate risks associated with trading malpractices

Business Challenge

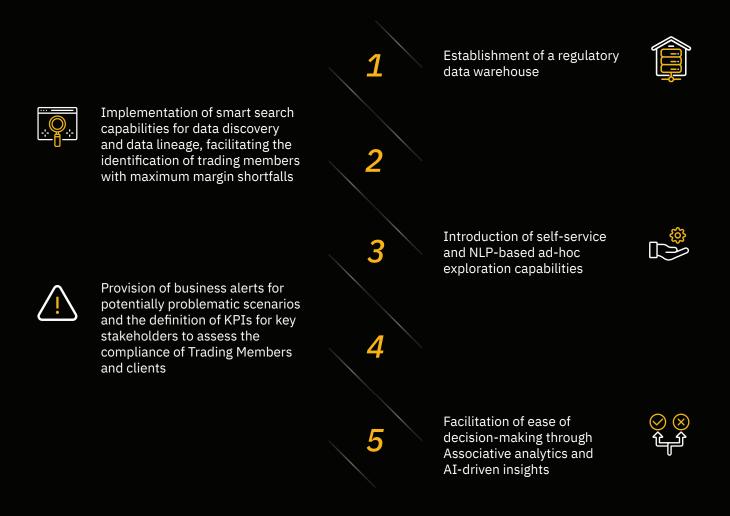
The primary challenge lay in processing billions of records to ensure regulatory compliance and enable effective investigations and surveillance. Complex compliance, investigation, and

surveillance requirements necessitated the correlation of data across multiple silos. Furthermore, the volume of data involved required robust data discovery and analytics capabilities.

Business Solution

NSEIT undertook the development of a comprehensive data warehouse to address exchange's surveillance and investigation department's needs. This initiative involved the consolidation of data from diverse source systems within the data warehouse, where billions of records were meticulously processed. Key solution highlights included:

Correlation of data from multiple sources, enabling the association of data across silos.



Tech Stack

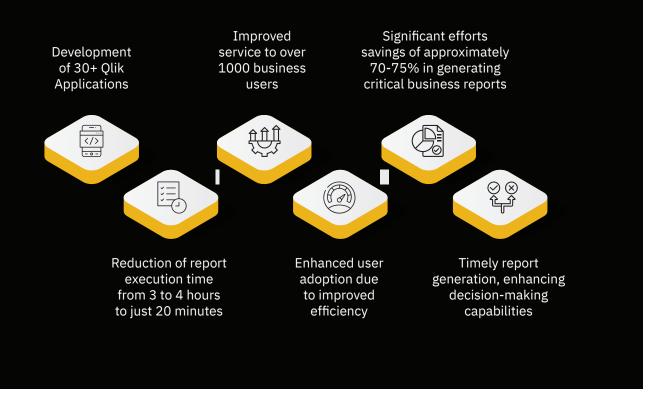






Business **Impact**

Following the implementation of the regulatory data warehouse, Exchange's Surveillance and Investigation departments successfully achieved their objectives of proactive market regulation, detection of improper trading practices, and the development of strategies to mitigate risks associated with trading malpractices. The other benefits that were delivered were:



About **NSEIT**

NSEIT Limited is a digital native technology company that engineers world-class solutions to help our global customers accelerate their digital transformation journeys. Our key service pillars are Application Modernization, Business Transformation, Data Analytics, Infrastructure &

Cloud Services, and Cybersecurity, through which we create intuitive digital experiences and tangible business impact. For over two decades, our innate drive for excellence has made us the partner of choice for global organizations. At NSEIT, we fuel digital progress.

Follow us at:





