

REGULATORY REPORTING OF ASSET TRADING USING SPARK

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Regulatory Reporting – Current Challenges

Financial Institutions need to report asset trade based on defined regulations

Reporting has to comply within a time window from the trade execution

Rules are subject to change and adjustments based on the change in regulations

The transaction volume is high Transactional systems are diverse





Case Study

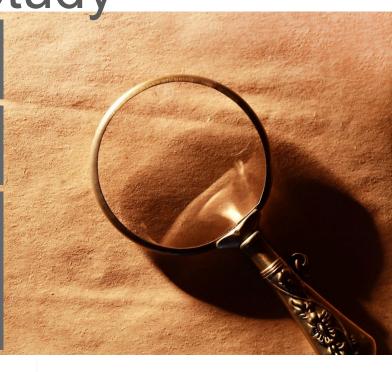
Leading global Financial Institution engaged in around 6 million trades a day in the financial markets

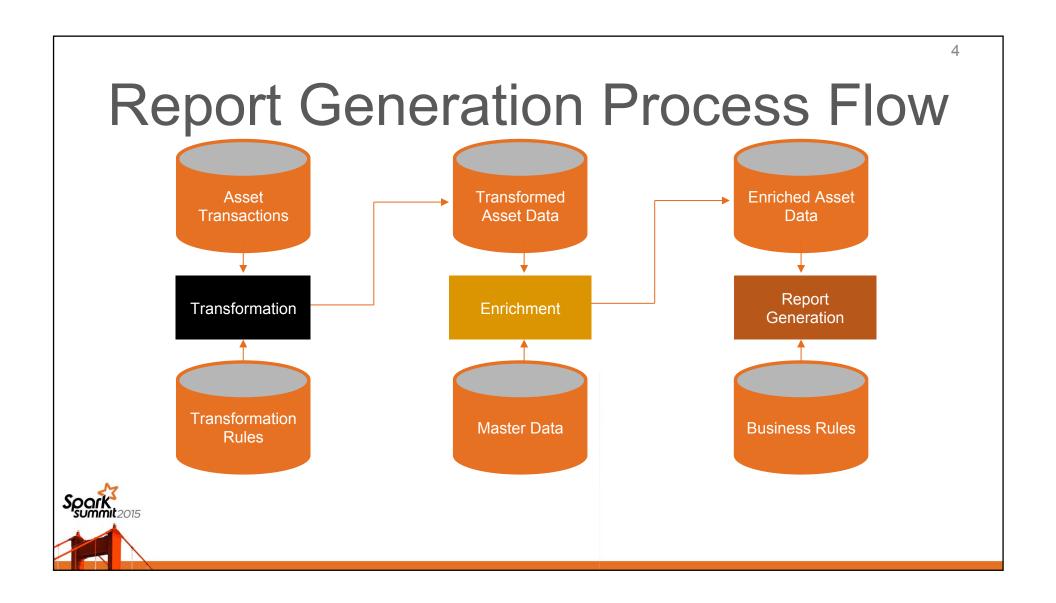
Regulatory requirements necessitates reporting in a specified reporting format within a 15 minute window

The trades are identified for reporting based on steps

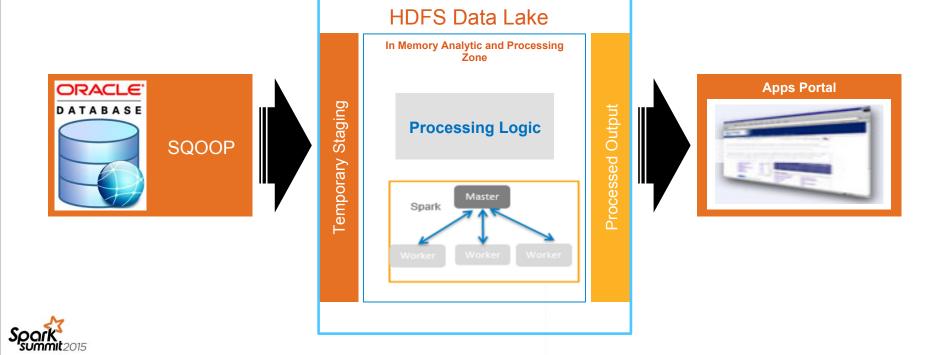
- Transformation
- Enrichment
- De-duplication checks
- Business Rules

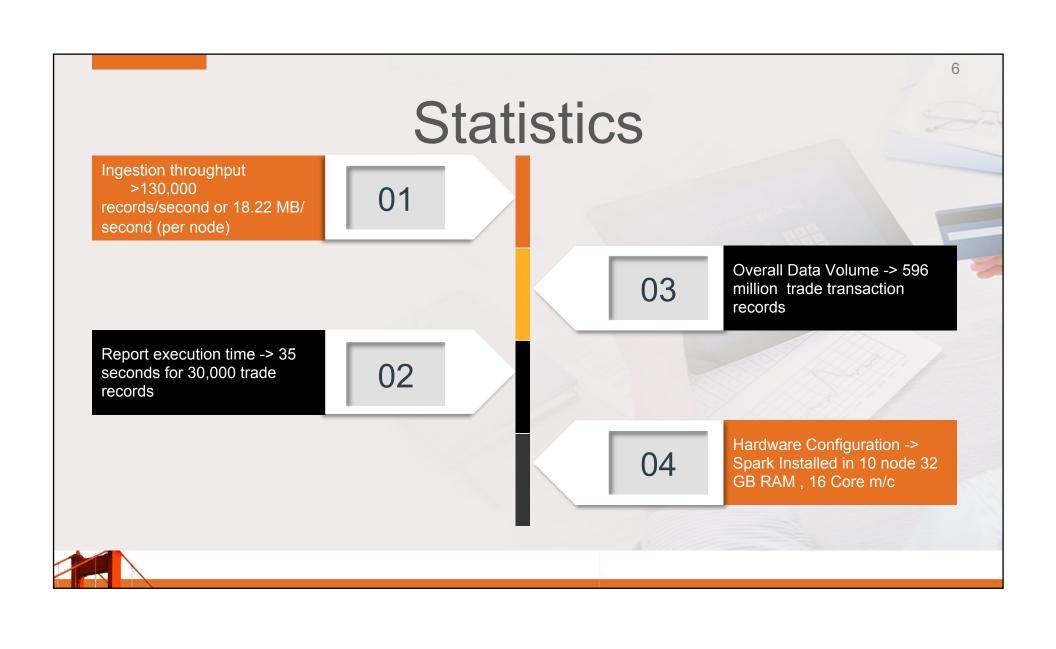






Architecture Diagram







IIP - Leveraging Power of Spark

Open Source / Spark Components

Spark ML

Spark Streaming

HIVE / Spark SQL

Hadoop / FS Storage / Infra Mgmt

Infosys & Partner IP Components
Tools | Data Extractors | Algorithms | Packaging & Support

Customization, Integration & Implementation Services

Data Modeling & Cleansing | Agile App Development
Data Science & Analytics | Security & Governance
Custom Data Extractors

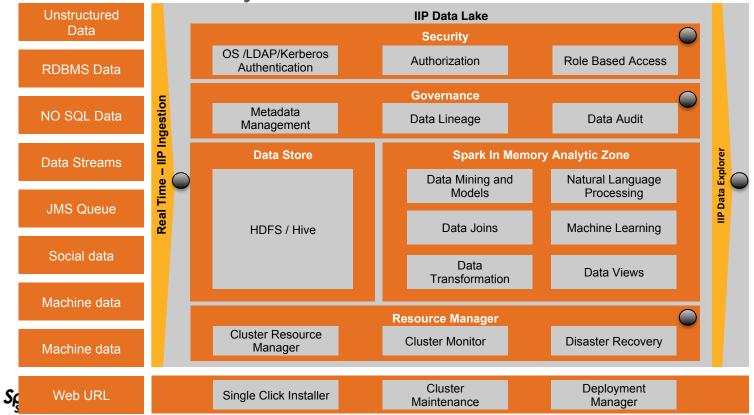






















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