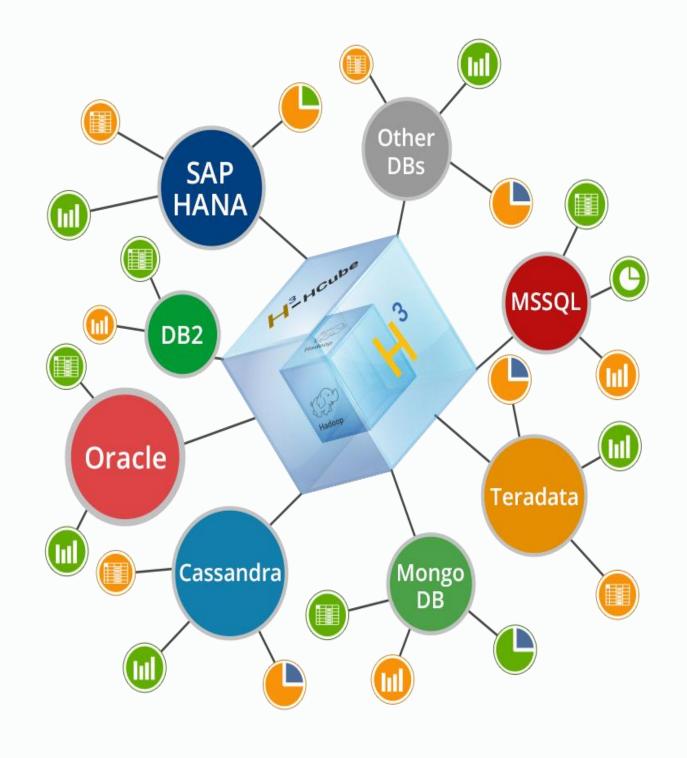


### **HCube**

# HCube

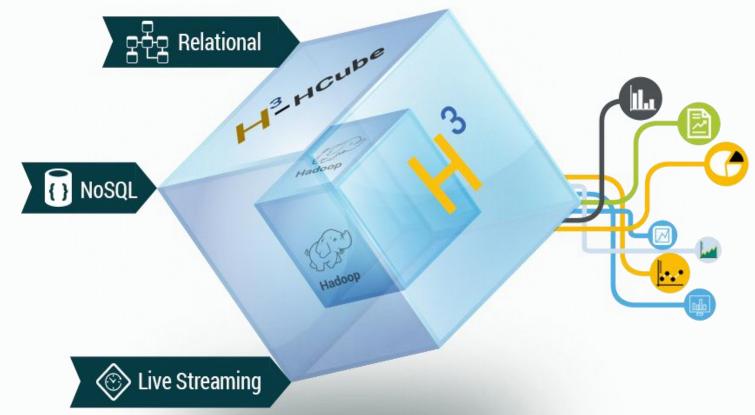
**INGESTs** business data from any source; TRANSFORMs it to business intelligence, & makes enterprises **LOADed** with business drivers through ANALYTICS!





# HCube: Key features

- Seamlessly integrates big-data with
  - On-premises databases & data warehouses like Oracle, SQL Server, MySQL, and DB2
  - In-memory data-stores like SAP HANA, etc.
  - Messaging & event streams like HTTP, JMS, etc.
  - Relational data-stores like Teradata & Netezza
  - NoSQL data-stores like MongoDB & Cassandra
  - Datascience and ML pipelines
- Extracts table data from source database servers to HDFS, Hive,
  & HBase
- Allows conditional transfer of table content to Hadoop
- Batch-wise job execution & built-in job scheduler
- In-built Change Data Capture (CDC) feature
- Flexible user interface to perform data transfers; integrates with any reporting tool





# HCUBE Data Ingestion - Sources

#### Databases

- Oracle
- SQL Server
- DB2
- MySQL/MariaDB
- SAP HANA (In-Memory)
- No-SQL
  - MongoDB
  - Cassandra
- File Transfer
  - Enterprise File Service
    - FTP
    - File Shares

#### Mainframe

- Binary data transfer to handle computational fields
- Accepts Fixed/Variable Length files
- Custom Hive SerDe to accept Cobol Copybook to parse/read mainframe raw files

# Machine Learning:

- ML pipelines
- Clustering
- Classification
- Regression

### Streaming

- TIBCO EMS/WebSphere MQ
- Active MQ/Rabbit MQ
- Other JMS Specs
- HTTP

#### Data Warehouse

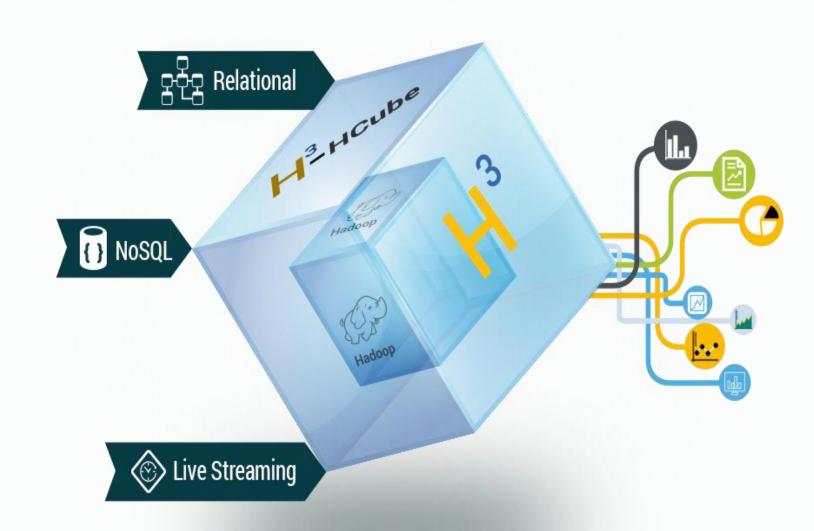
- Oracle
- Teradata
- Netezza
- Server Logs
- .....MANY MORE......



## HCUBE Data Ingestion - Highlights

### Highlights

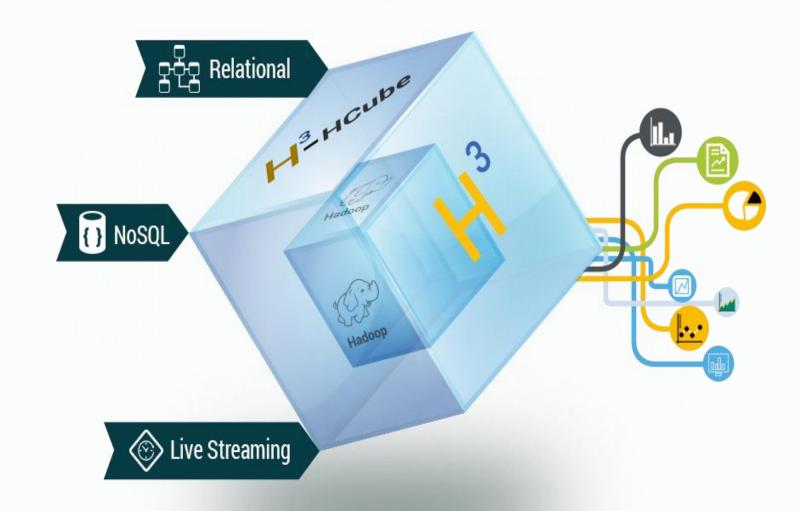
- Load data into HDFS/Hive/Hbase with customized partition rules
- Conditional Data Transfer
- In-built Change Data Capture feature
- Configuration driven Data Ingestion
- Ready made connectors for ~100 Data Sources
- OOTB Integration with IoT
- Hive table creation from CSV/Zip dataset with ORC + Snappy
- Ships with Data Quality framework for Deduplication and Decision Modeling
- Role based authentication & authorization
- Simple and Modern UI for data ingestion administration and management





### **HCUBE** - Benefits

- OOTB Vertical Starter Kits
- Faster time to Ingest Data
  - 54% reduction in time & effort
- Lower TCO
- 48% Increase in Performance
- Easy Cross-Platform Integration





### **HCUBE - Data Preparation & Analytics**

### Data Preparation

- Hive table creation from CSV/Zip dataset with ORC + Snappy
- Ships with Data Quality framework for De-duplication and Decision Modeling

### Data Query

- A fast In-Memory Query Engine for interactive analytics
- Master-Worker architecture with workers co-located with Data Nodes
- Delivers 2x-4x times performance improvement over Hive/Tez
- Ideal for Business Users ad-hoc query processing

### Data Analytics

- Includes Yatch (In-House) for Data Exploration and Analytics
- Integrates with Zeppelin or other Enterprise Visualization tools
- Includes Vertical visualization templates



HCUBE – Auditing & Monitoring

### Job Scheduler

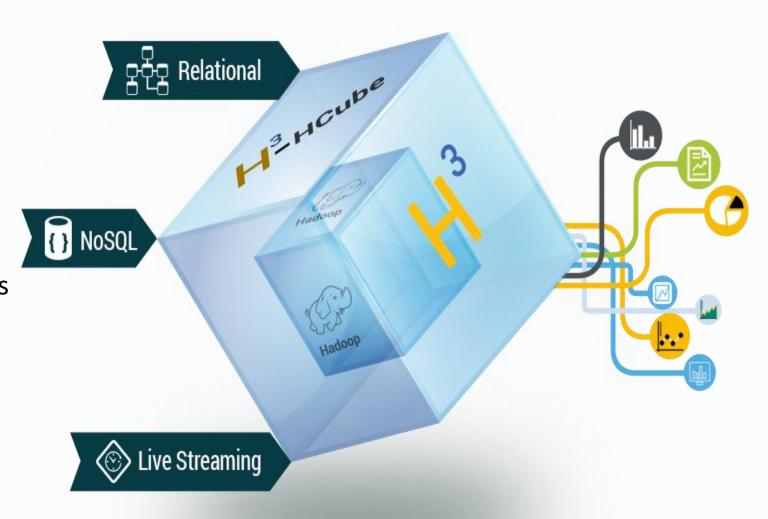
- In-built Job scheduler
- Failure Notifications
- Job status reporting

### Auditing

- Hive Auditing hooks for capture MapReduce statistics
- Yatch visualizations for Hive Auditing

### Monitoring

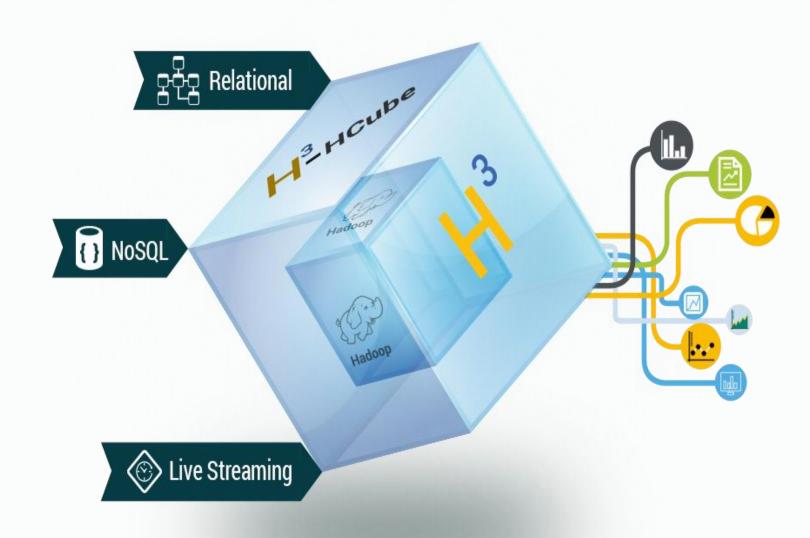
- Batch Job Monitoring
- Server metrics capture & reporting
- Custom application metrics capture & reporting





### HCUBE – Deployment Options

- On-premise
  - Reach-out to us for Capacity Planning
- Cloud-Hosted
  - Pay as you scale
  - AWS/Azure Hosting
  - Includes Hadoop distribution
- Managed Services
- Docker Distribution
  - Get hands on with our Docker images





# Thank You





