## Data analytics without boundaries

Enabling businesses and enterprises to deliver data-driven decisions in a fraction of the time compared to other data platforms

SCIKI ALL-IN-ONE DATA PLATFORM

## **Making Smarter and Confident Decisions using SciklQ**







# INTRO TO SCIKIQ CONNECT

Bring Your Own Application

#### ScikIQ Connect is a NO Code Data Integration and Data

**Transformation Platform** that let our client teams to effortlessly centralize all the data & build single version-of-truth thereby enabling them to make faster, smarter & confident decisions using data.

**Using SciklQ Connect**, Client teams can build and deploy Data Integration and Data Transformation Pipelines without writing a single line of Code. The engine takes care of all the complexities in the background thereby save time and engineering effort - hence creating bandwidth for the client team to work on actual value-added activities and making sense from the data.

Having dealt with the pain of Integrating data across organizational silos and boundaries, we have architected the product so that it is easy to use and achieves reduction in the DATA-TO-ACTION timeframe from years and months to days. We help our clients save a tremendous amount of time by eliminating the need to build, integrate & maintain complex data pipelines.

ScikIQ Connect is designed to enable business team to drive value from the data and focus on business growth rather than worrying about how the data needs to be stitched together – thereby providing you a complete Freedom to chose the best Application **Technology to meet your business needs** such as SAP, SFDC, Oracle, SQL Server, etc.













ScikIQ Connect is built using proven open-source technologies and uses a modern container-based architecture which effortlessly connect to any data store hosted on a single cloud, multiple clouds, or on a hybrid environment (on-premises + cloud).

It hosts highly scalable, Cloud-agnostic, and interoperable data integration toolsets for designing and developing complex data workloads through NO Code easy-to-use, visual, drag-and-drop User Interface.







#### How the Data Strategy is Implemented Today?

because of the huge learning curve and tech-centricity of the tool



## SciklQ Connect – Data Integration



#### SCIKIQ

### SciklQ Control – Data Governance



SciklQ abstract Complexities around Complex Ecosystem





# SAP DATA MIGRATION

SAP Data Integrator comes with rich library of functions and transformation routines which helps in migrating SAP Data from Application, Database or API layer to Cloud Data Lakes.

Non Invasive Minimal to Zero Impact on Source

Automated Data Reconciliation



### SAP DATA MIGRATION **APPROACHES**

With ScikIQ, you can extract data from a full range of SAP including SAP HANA, ECC 6.0 or SAP BW with just a few clicks. Through it NO Code Data Integration and Data Transformation Platform it let our client teams to effortlessly centralize all the data & build single version-of-truth thereby enabling them to make faster, smarter & confident decisions using data.

ScikIQ supports SAP Data Extraction from SAP using following methodologies

SAP HANA

SAP ECC

- 1. to consumable formats with the required mappings and writes on a target database i.e., Snowflake or Vertica.
- 2. tables, and queries.
- 3. ScikIQ to extract data for the given entity set.
- 4. Consumption and Dashboarding



**Database Level:** Extraction Framework at Database Level extracts raw data as it is being written to SAP database, transform the data

Application Level: ScikIQ uses Remote Function Call libraries to natively connect and extract data from remote function modules, views,

**OData:** SAP OData connectors allow you to browse different OData services exposed in the SAP server through its Catalog service. You can select any service of your choice, retrieve the meta-data of various entities exposed in the selected service and then design a job within

Process Migration : Select AR, AP, GL or P2P process and let ScikIQ pull the data out of all the related tables from SAP for Process





#### **Data Integration – SAP S/4 HANA**

data from SAP ERP i.e., Enterprise Resource Planning Software

Туре	Extraction Mode	
Transparent	Full	Extra Billing
	Delta	Extra Sales
Clustered	Full	Extra
	Delta	Extra
		such
Standard	Full & Delta	Extra
Custom	Full	Extra
		Balan
	Delta	(1)Ext whi
		(2)So
		colu
S Standard/Custom	Full	Extra
	Delta	(1)Ex
		I_S
		(2)No
		delt
	Type Transparent Clustered Standard Custom Standard/Custom	TypeExtraction ModeTransparentFullDeltaDeltaClusteredFullDeltaDeltaStandardFull & DeltaCustomFullDeltaDelta



#### The following table highlights the high-level Capabilities of any Data Integration tool which can extract

#### **Scenario Detail**

- ct the complete data set from transparent table such as Sales Header, Sales Item, g Item.
- ct delta records based on timestamp, incremental column such as Sales Header, Item, Billing Item.
- ct the complete data set from clustered table such as BSEG.
- ct delta records based on timestamp, incremental column from a clustered table as BSEG.
- ct data (Full & Delta) from SAP provided standard extractors
- ct data from customer developed extractors such as Sales Order, GL Accounts nce, Billing extractors.
- tract data from customer developed extractors, should bring only delta records ich are posted after the initial extractions.
- me custom extractors are not enabled with Delta, in such scenarios based on time umn or incremental column from extractor extract only delta postings.

ct the data from ABAP CDS view tract only delta postings from ABAP CDS view such as SALESORDERITEMCUBE.

ot all the CDS views are enabled with delta extractions in those scenarios extract ta postings based on time field or incremental column from CDS views.



#### Data Integration – BW on HANA/BW4HANA

SAP Enterprise Data Warehouse has functionalities such as data modelling, administration, and provision management. It integrates multi-source data, aggregates, and transforms data, carries out data cleansing and stores data. The following table highlights the high-level Capabilities of any Data Integration tool which can extract data from SAP BW i.e. SAP Data Warehouse

Source Object	Туре	Extraction Mode
Info Object	Master Data	Full
DSOs/ADSOs	Write Optimized	Full/Delta
	Standard	Full/Delta
Open Hub Destination (OHD)	Table & File	Full

#### **Scenario Detail**

- (1)Time independent: Extract Customer master and text data from generated HANA View.
- (2)Time Dependent: Extract Material master and text data from generated HANA View.
- (1)For one-time load, extract the data from ADSO generated HANA VIEW for objects such as Sales Order, Billing, Shipment, General Ledger ADSOs.
- (2)For subsequent Delta extractions, based on Request ID fetch the delta request data from ADSO generated HANA view for objects such as Sales Order (ADSO).
- (1)For one-time load, extract the data from ADSO generated HANA VIEW for objects such as Sales Order, Billing, Shipment, General Ledger ADSOs.
- (2)For subsequent delta extractions, fetch delta postings for Sales Order, Billing, Shipment, General Ledger ADSOs. Based on Creation/Change Date fields from ADSO generated HANA view extract the delta postings.

Extract data from objects such as Purchase Order, Purchase Order Item OHD.



## DATA INTEGRATION – ECC ON HANA

SAP S/4 HANA is an ERP application that runs on the SAP HANA database. It is the innovative in-memory version of the Business Suite ERP platform and is based on SAP HANA's in-memory database. SAP S/4 HANA is the abbreviation for SAP Business Suite 4 SAP HANA, denoting it is the fourth version of SAP Business Suite. SAP S/4 HANA is a next-gen ERP application and ideal as a transactional system for large enterprises.

Source Obiect	Туре	Extraction Mode	Scenario Detail
Table Transpare	ole Transparent Full	Full	Extract the complete data set from transparent table such Header, Sales Item, Billing Item.
		Delta	Extract delta records based on timestamp, incremental co such as Sales Header. Sales Item. Billing Item.
Clustered	Clustered	Full	Extract the complete data set from clustered table such as
	Delta	Extract delta records based on timestamp, incremental co from a clustered table such as BSEG.	
Extractor	Standard	Full & Delta	Extract data (Full & Delta) from SAP provided standard ex
Custom	Custom	Full	Extract data from customer developed extractors such as Order, GL Accounts Balance, Billing extractors.
		Delta	(1) Extract data from customer developed extractors, show only delta records which are posted after the initial extr
		(2) Some custom extractors are not enabled with Delta, in scenarios based on time column or incremental column extractor extract only delta postings.	
ABAP CDS	Standard/Custom	Full	Extract the data from ABAP CDS view
Views		Delta	<ul><li>(1) Extract only delta postings from ABAP CDS view such I_SALESORDERITEMCUBE.</li></ul>
			(2) Not all the CDS views are enabled with delta extraction those scenarios extract delta postings based on time fi incremental column from CDS views.



### **SciklQ + - Out of the box ML Capabilities**

**Statistical** Summary

Time Series

Sessionize

Pattern Matching

Date/ Time Algebra

Correlations

Date Type Handling

Sequences

And More...

Data Analysis & Understanding



**Outlier Detection** 

Normalization

Imbalanced Data Processing

Sampling

Missing Value Imputation

And More...

SVM

Random Forests

Logistic Regression

Linear Regression

Ridge Regression

Naive Bayes

**Cross Validation** 

And More...

Model-level Stats **ROC** Tables **Error Rate** Lift Table **Confusion Matrix R-Squared** MSE Evaluation

**Data Preparation** 

Modeling