Today's Agenda

- Wdata Overview
- Data Management
- Integrations & Orchestrations
- Scoping Considerations
- Live Q&A

Today's Objectives

wdata

Session Objectives:

- Understand how to manage the broad vision of Wdata
- Recognize Wdata components and how they work together
- Discern between simple and complex integration options
- Realize how to customize your own demo
- Master scoping of an implementation process

Wdata | Overview

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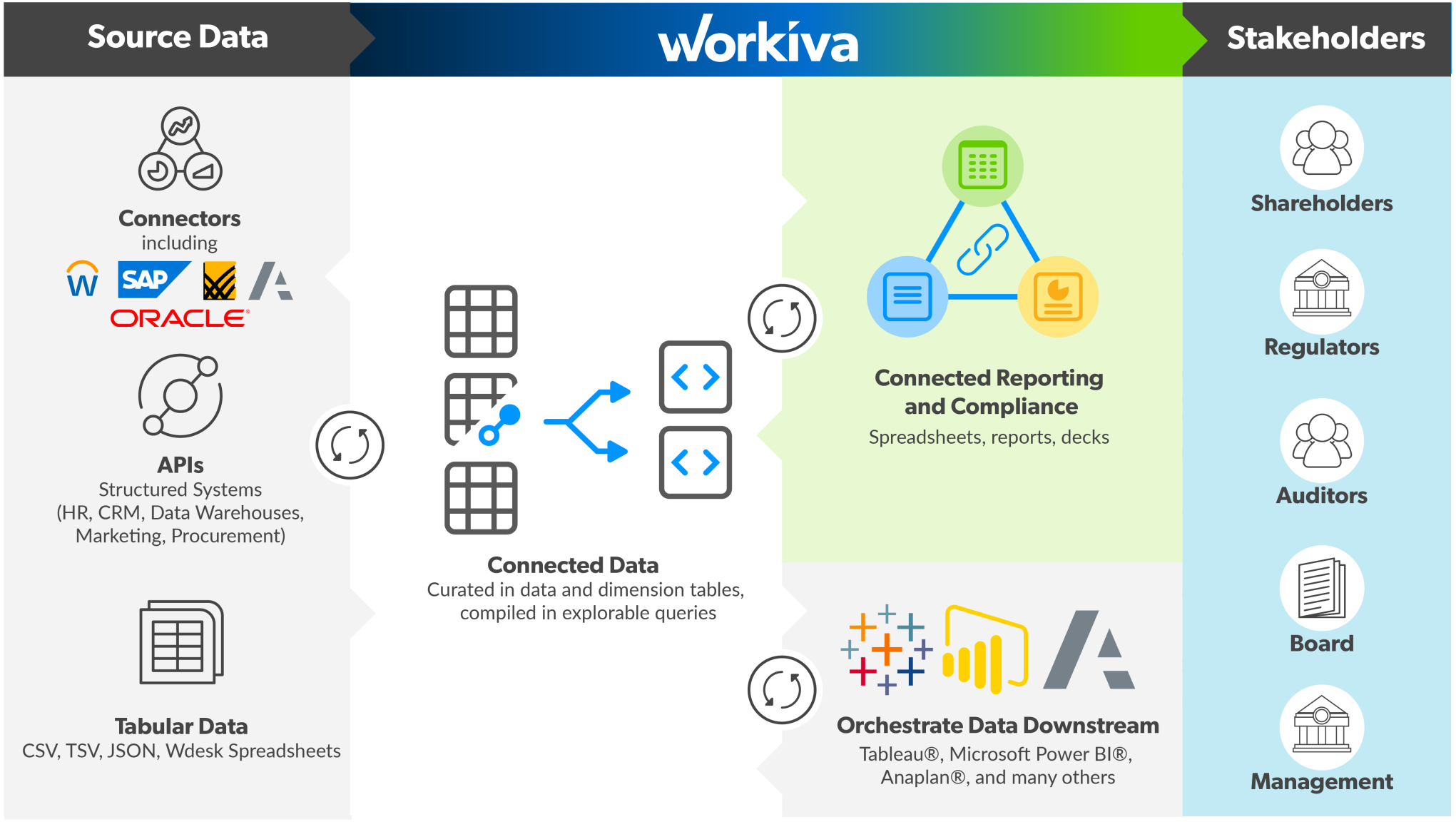
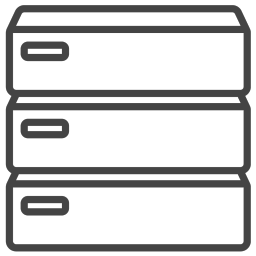
Connected Reporting Process



Why Wdata?



Connectivity

Close the access gap by connecting to the systems and data teams depend on

Automation & preparation

Automate data preparation with powerful aggregation and enrichment tools

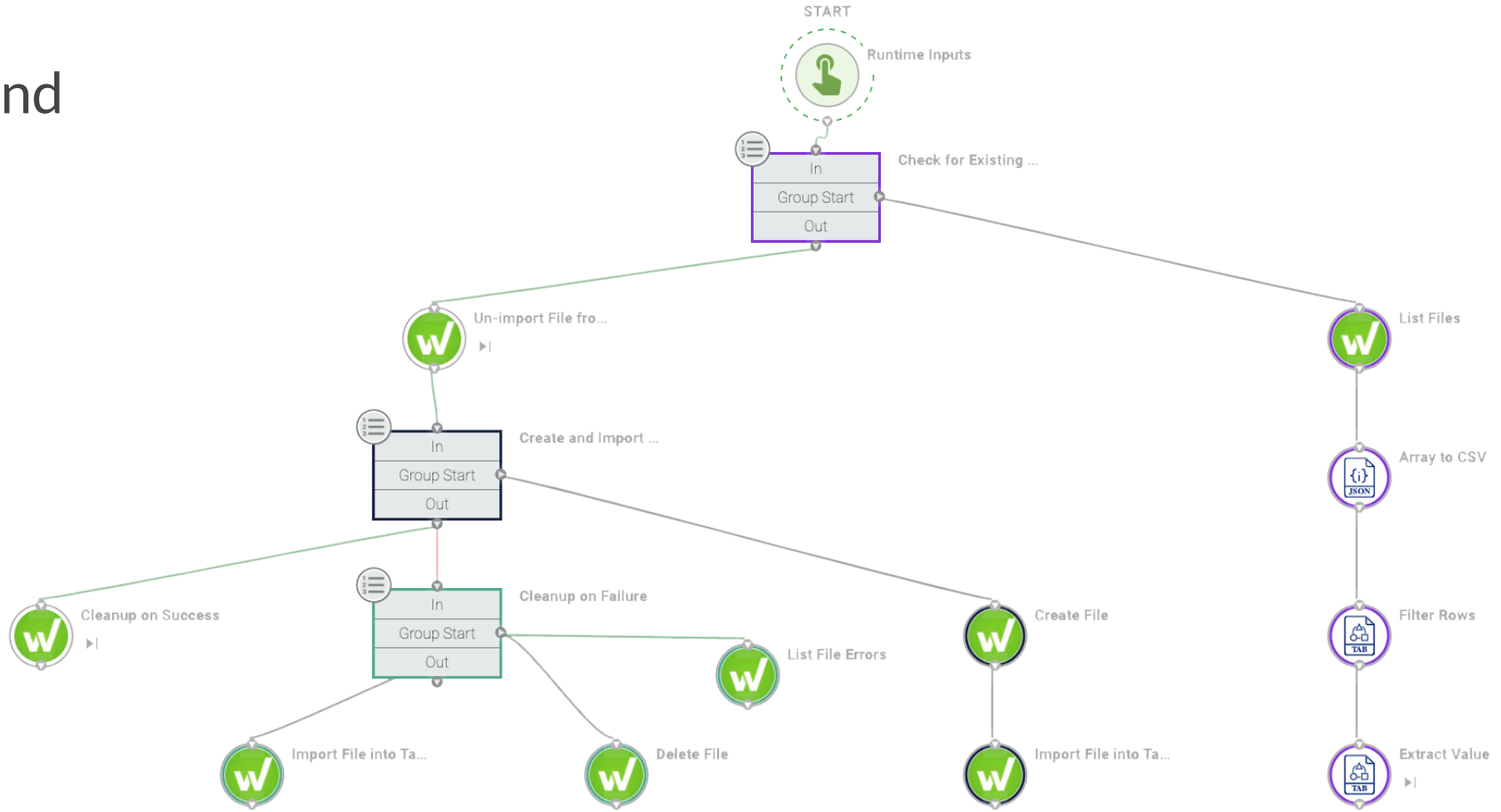
Reporting

Add control and accessibility to reporting with easy to use data sharing tools, like connected sheets

Wdata Functionality

Chains

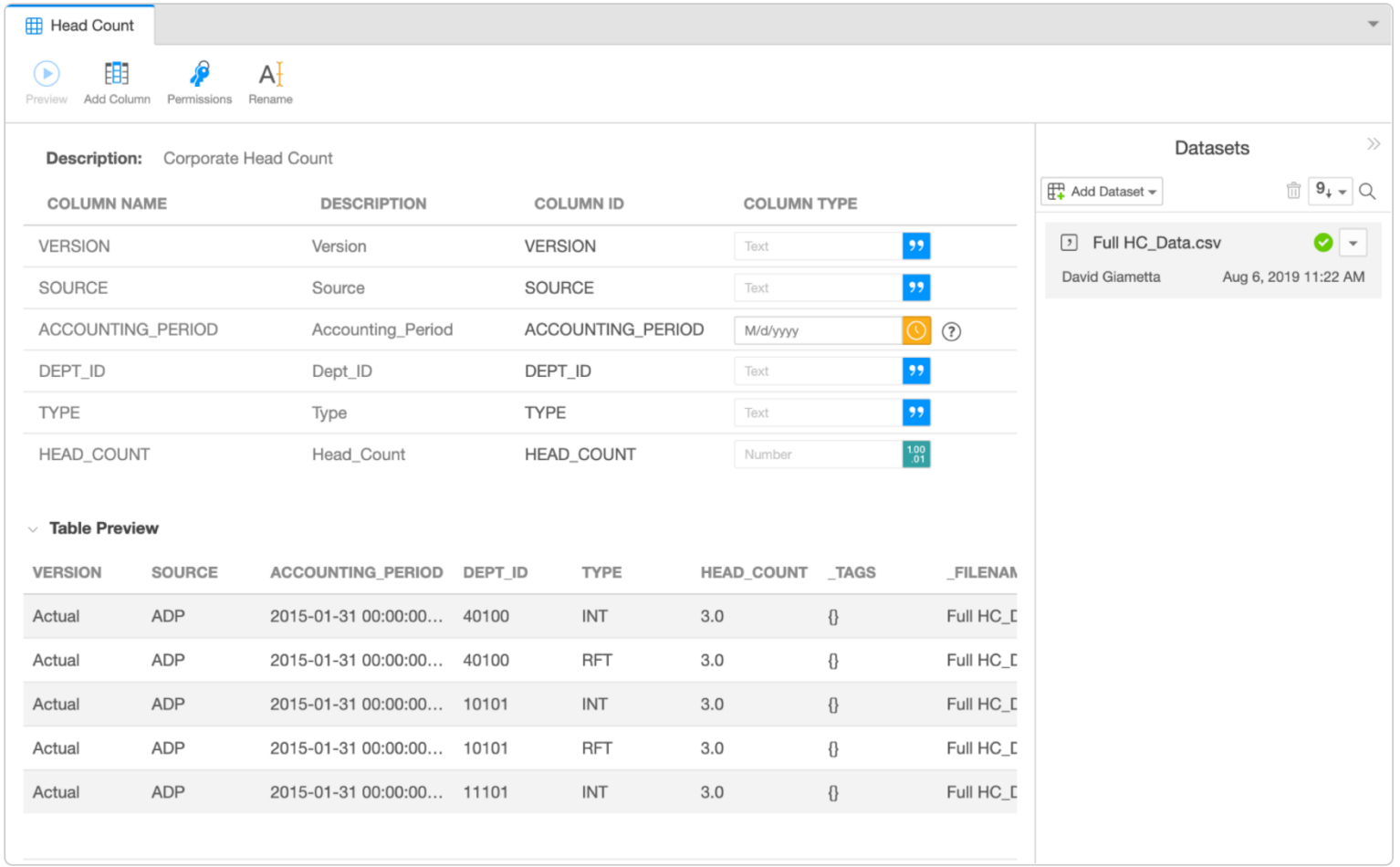
- Data connectivity and automation



Wdata Functionality

Tables

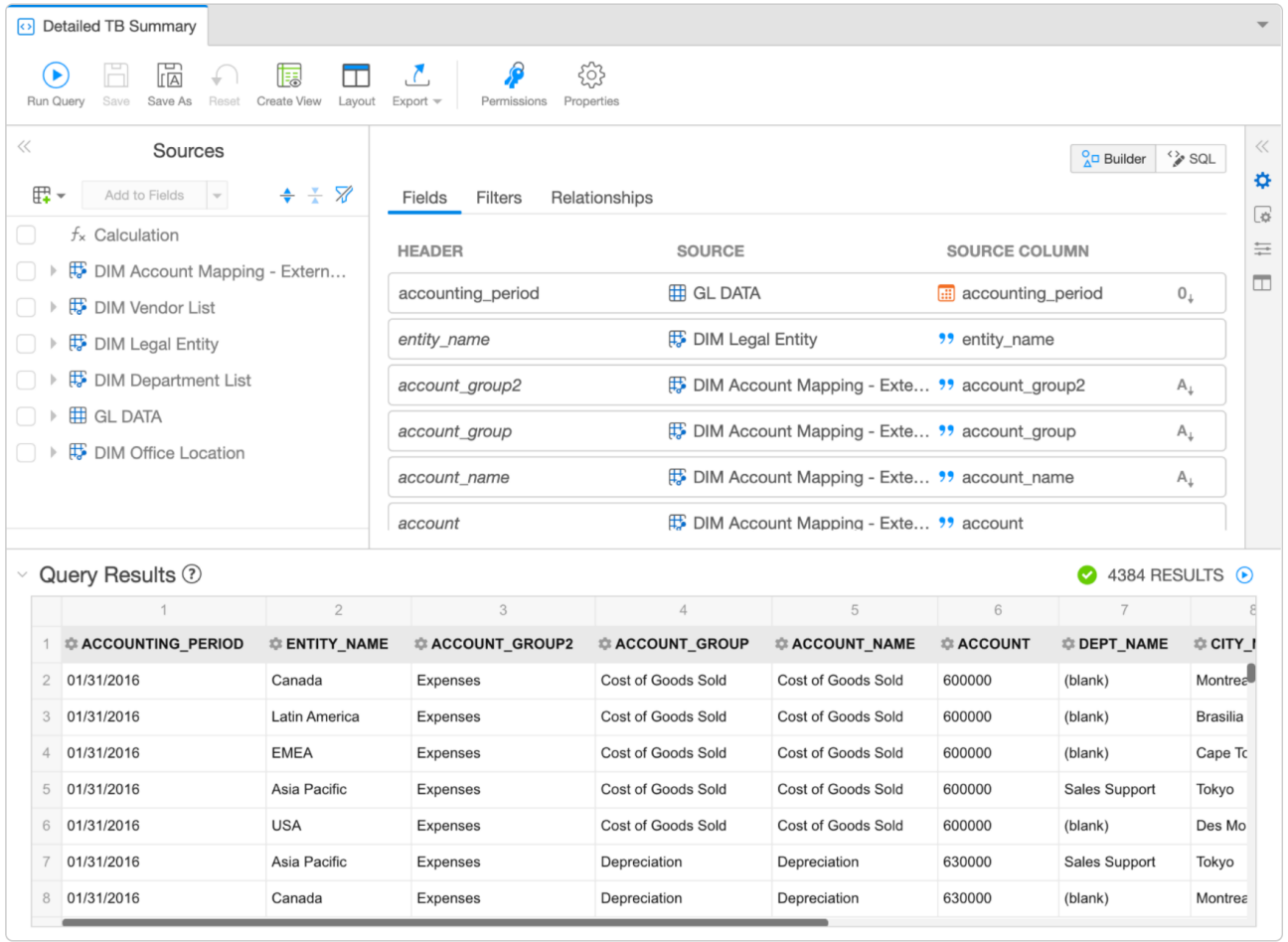
- Storage and staging of data



Wdata Functionality

Queries

- Transformation and aggregation of data



Wdata | Data Management

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Data Management

Wdata Tables

Data Tables

- Contains data that builds up over time, like general ledger data, metric tracking, or other event based data.
- Highly scalable

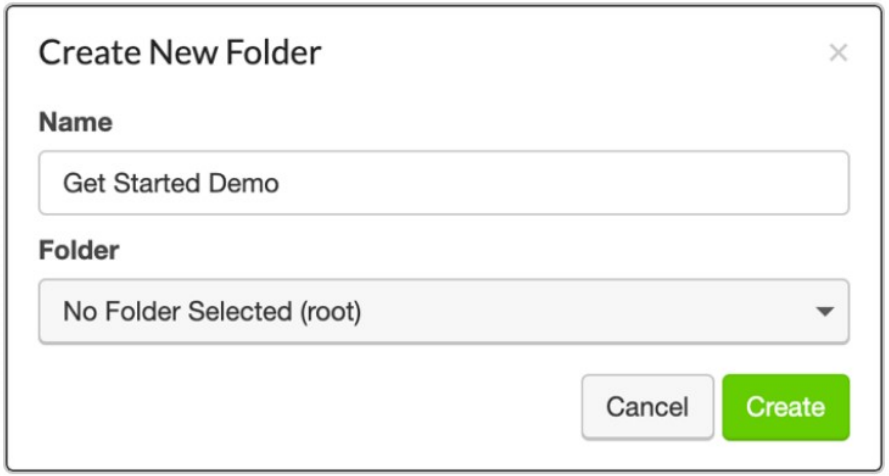
Dimension Tables

- Contains list, mapping, flatten hierarchy, and descriptive data, like chart of accounts, financial statement mappings, and product information.
- Limited scale (2M records)

Step 1. Create a Folder for the Tables

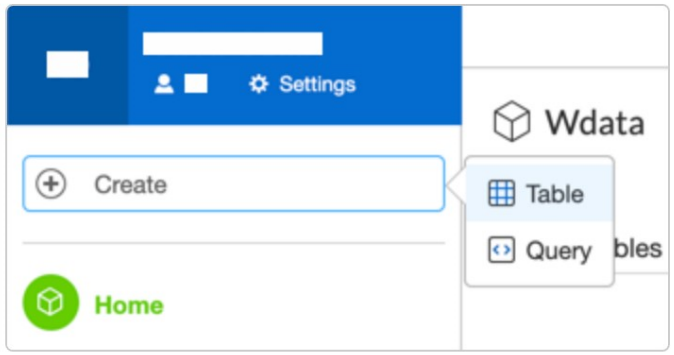
To get started, create the folder where you'll save the tables:

1. From Wdata Home, click **Create** .

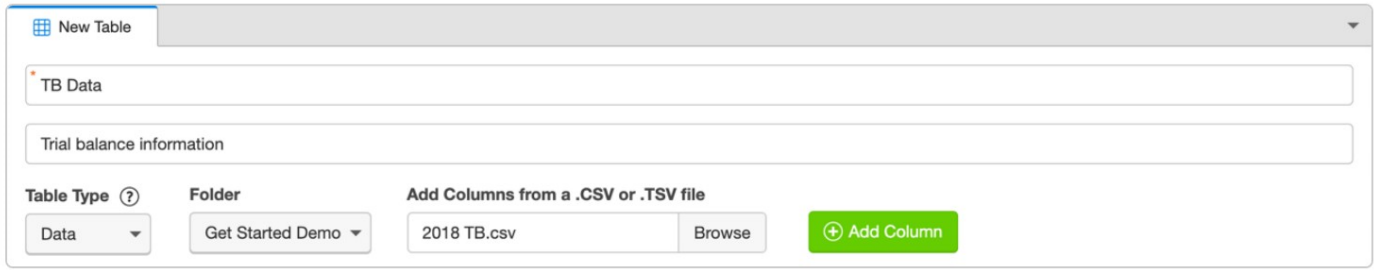


2. Enter the folder's name, such as Get Started Demo.
3. In **Folder**, select where to save the folder. For this example, leave the default No Folder Selected to create the folder at the root of Home.
4. Click **Create**.

1. Click **Create**, and select **Table**.



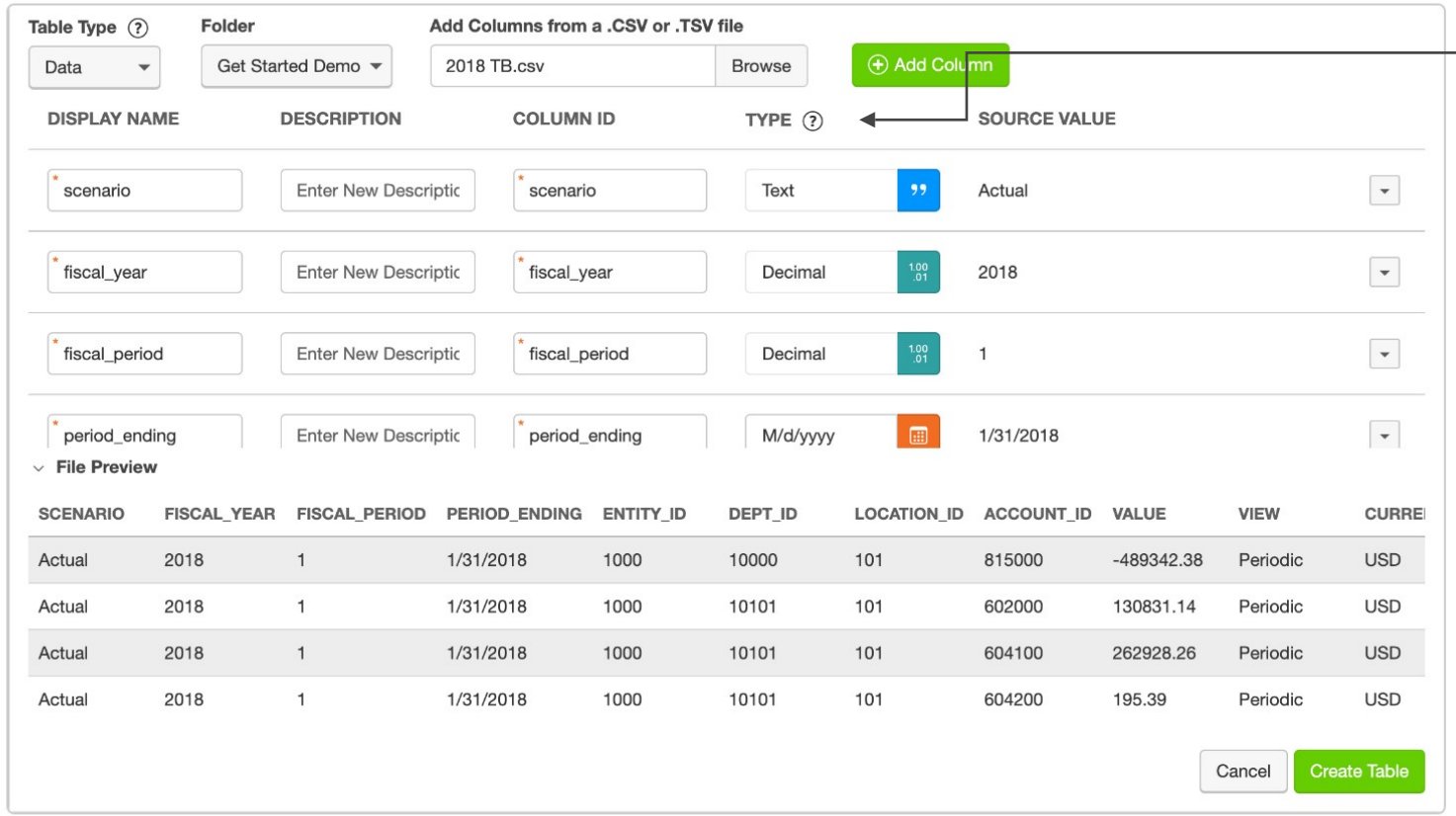
2. Enter a unique name and description to help identify the table and its data. In this example, TB Data and "Trial balance information".



3. For **Table Type**, select whether to create a data or dimension table. Since a trial balance accrues *new entries over time*, select Data.

4. To base the table's structure on an existing file, under **Add Columns from a .CSV or .TSV file**, browse to and select a sample trial balance CSV—start with the downloaded `2018 TB.csv`.

5 Review the details about the uploaded file's columns:



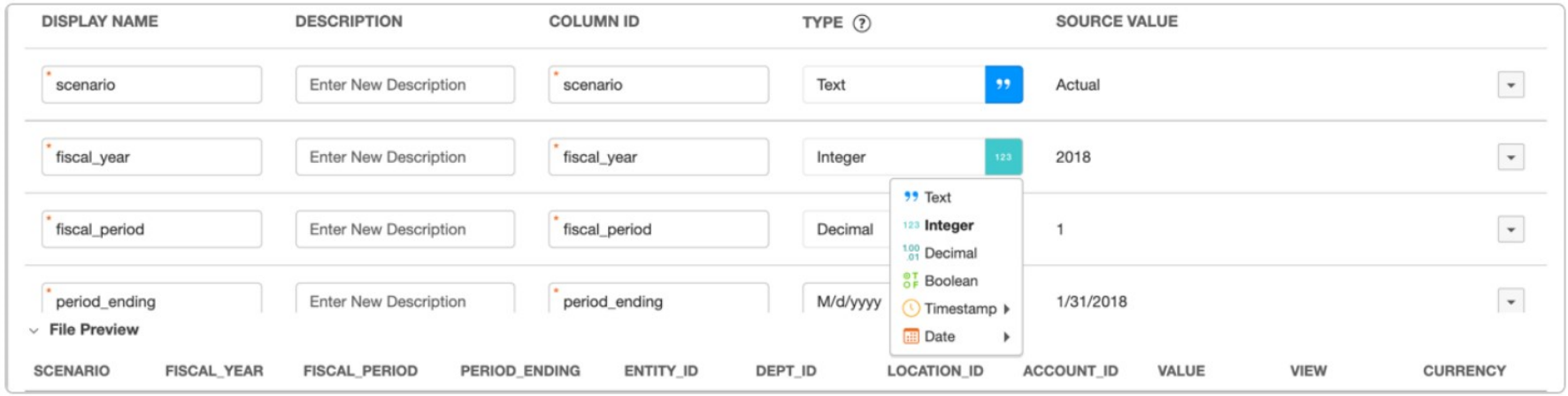
Note: Double check types

- Under **Display Name** and **Column ID**, each column's header appears.
- Under **Type**, the type of data the column contains appears, based on the **Source Value** from its first row.

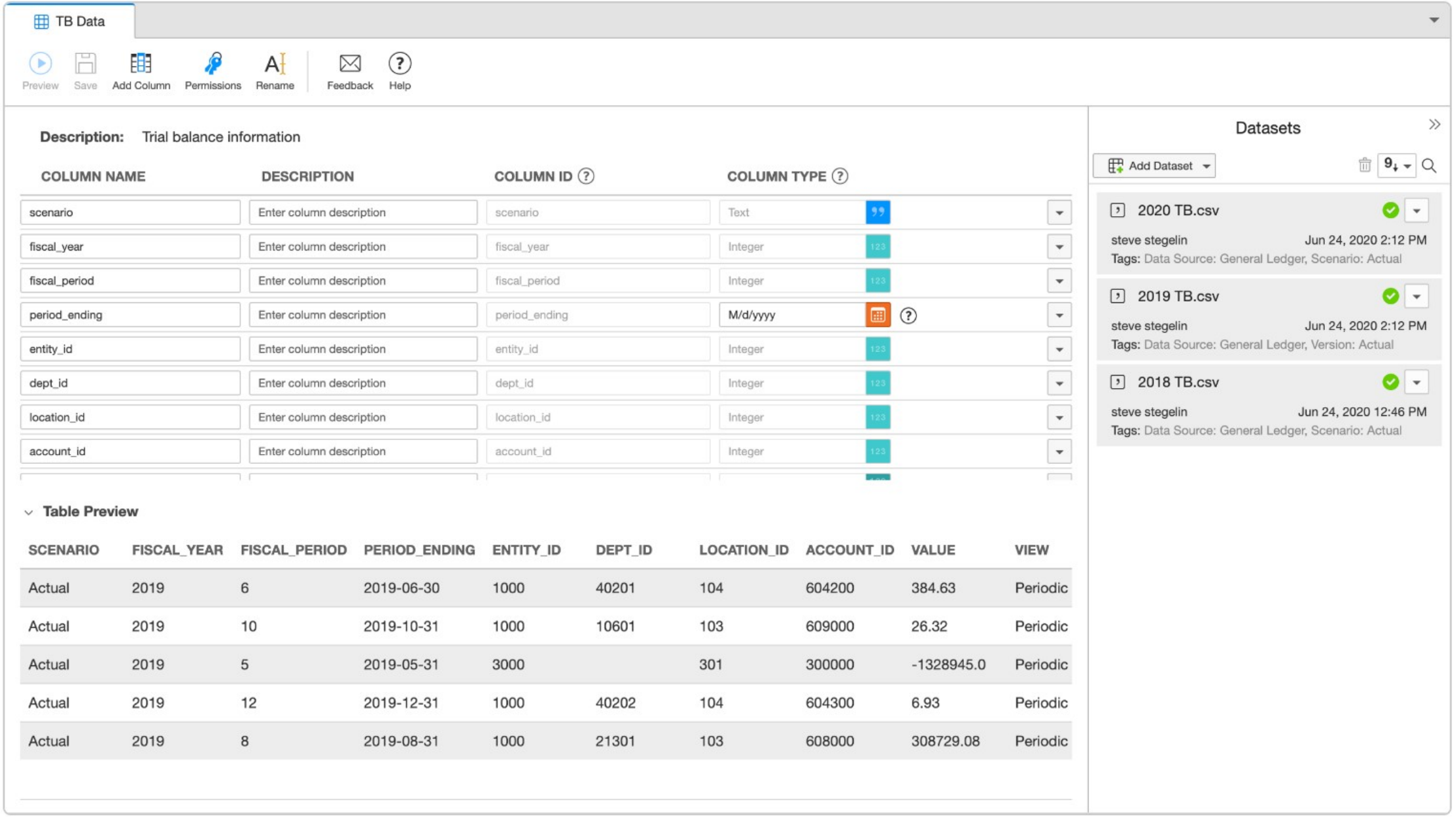
> **Note:** For view the data from the imported file for reference, click **File Preview**.

6 Adjust the column details as necessary:

- Under **Display Name**, edit the column's header as necessary for clarity.
- Under **Description**, enter an optional explanation of the column's data. For example, for `value`, enter MTD to clarify the month-to-date status of its data.
- Under **Column ID**, verify the values match the IDs of columns you'll map from other data sources over time.
- Under **Type**, verify the data type selected matches how you intend to use the data. In this example, to ensure values appear as *whole numbers*, select Integer for `fiscal_year`, `fiscal_period` , `entity_id`, `dept_id`, `location_id`, and `account_id`.



7 Click **Create Table**.


TB Data
Preview
Save
Add Column
Permissions
Rename
Feedback
Help
Description: Trial balance information
COLUMN NAME
DESCRIPTION
COLUMN ID
COLUMN TYPE
scenario
Enter column description
scenario
Text
fiscal_year
Enter column description
fiscal_year
Integer
fiscal_period
Enter column description
fiscal_period
Integer
period_ending
Enter column description
period_ending
M/d/yyyy
entity_id
Enter column description
entity_id
Integer
dept_id
Enter column description
dept_id
Integer
location_id
Enter column description
location_id
Integer
account_id
Enter column description
account_id
Integer
Table Preview
SCENARIO FISCAL_YEAR FISCAL_PERIOD PERIOD_ENDING ENTITY_ID DEPT_ID LOCATION_ID ACCOUNT_ID VALUE VIEW
Actual 2019 6 2019-06-30 1000 40201 104 604200 384.63 Periodic
Actual 2019 10 2019-10-31 1000 10601 103 609000 26.32 Periodic
Actual 2019 5 2019-05-31 3000 301 300000 -1328945.0 Periodic
Actual 2019 12 2019-12-31 1000 40202 104 604300 6.93 Periodic
Actual 2019 8 2019-08-31 1000 21301 103 608000 308729.08 Periodic
Datasets
Add Dataset
2020 TB.csv
steve stegelin Jun 24, 2020 2:12 PM
Tags: Data Source: General Ledger, Scenario: Actual
2019 TB.csv
steve stegelin Jun 24, 2020 2:12 PM
Tags: Data Source: General Ledger, Version: Actual
2018 TB.csv
steve stegelin Jun 24, 2020 12:46 PM
Tags: Data Source: General Ledger, Scenario: Actual

1. From the Datasets panel, click **Add Dataset**, and select **Upload File**.

2. Browse to and select the CSV.

3. Apply any applicable tags, and click **Add Data**.

If your organization routinely tracks information about the datasets used in tables, workspace owners can set up tags to use as metadata. For example, use tags to track:

- Versioning, such as Draft or Final
- Data sources
- Scenario or intent, such as Budget or Forecast

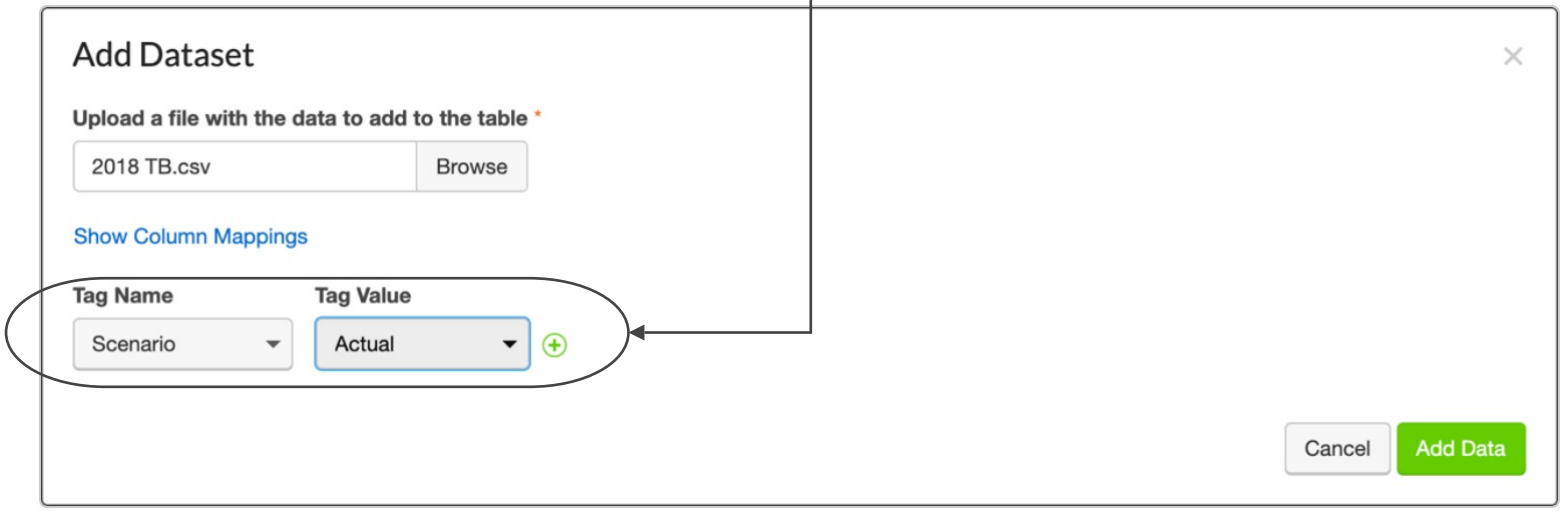


Table Summary

Table Types

- Data - Highly scalable storage
- Dimension - Mappings or lists

File Types

- .CSV, TSV, JSON
- Headers must match table column ids, but order doesn't matter

Tags

- Used for additional metadata associated with the file upload

Validate column_ids and column Types

Data Extraction

Wdata Queries

Builder Mode

- Drag & Drop query builder designed for moderate users.

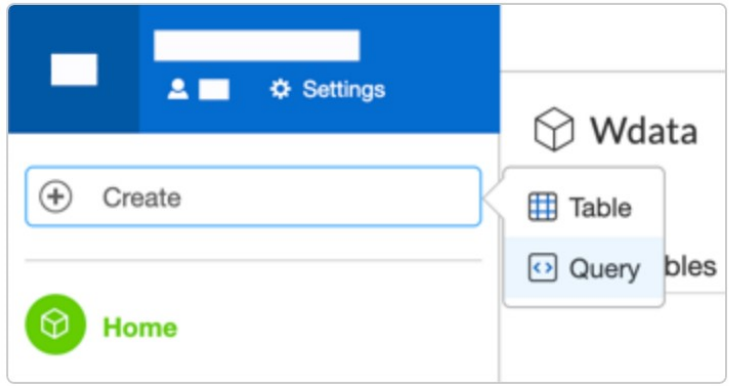
SQL Mode

- SQL editor for advanced queries not supported within Builder Mode.

Runtime Parameter Support

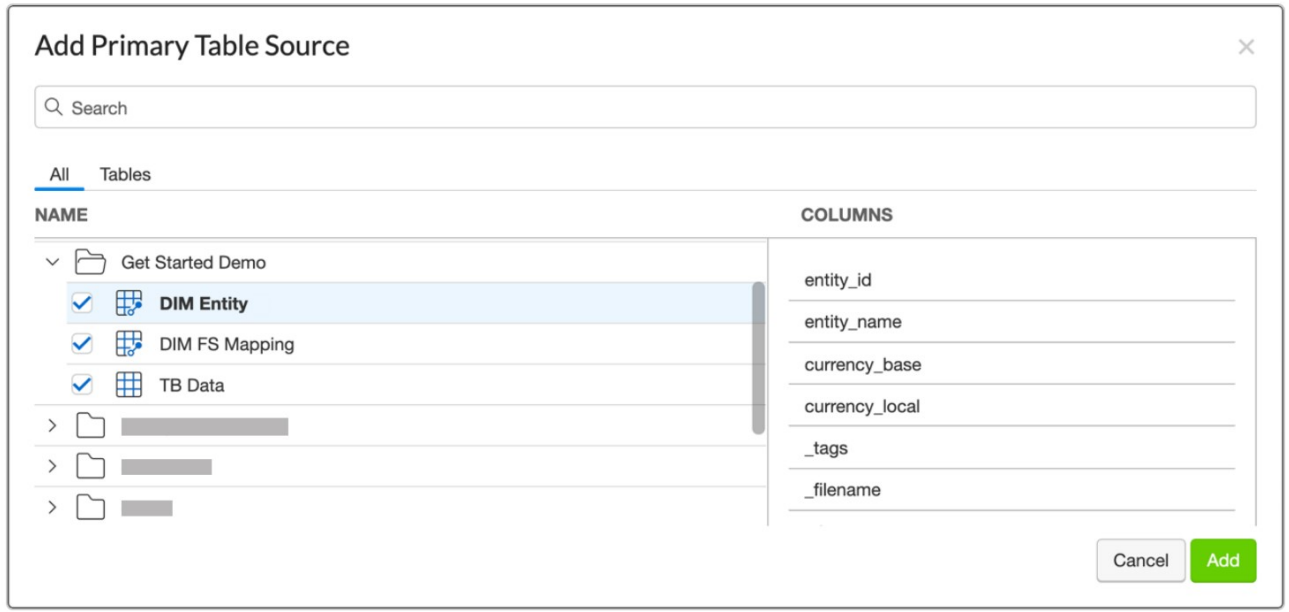
- Query Parameters - Set at the query
- Global Parameters - Set at the Workspace and updates

1 From Wdata **Home**, click **Create** ⊕, and select **Query** ‹›.

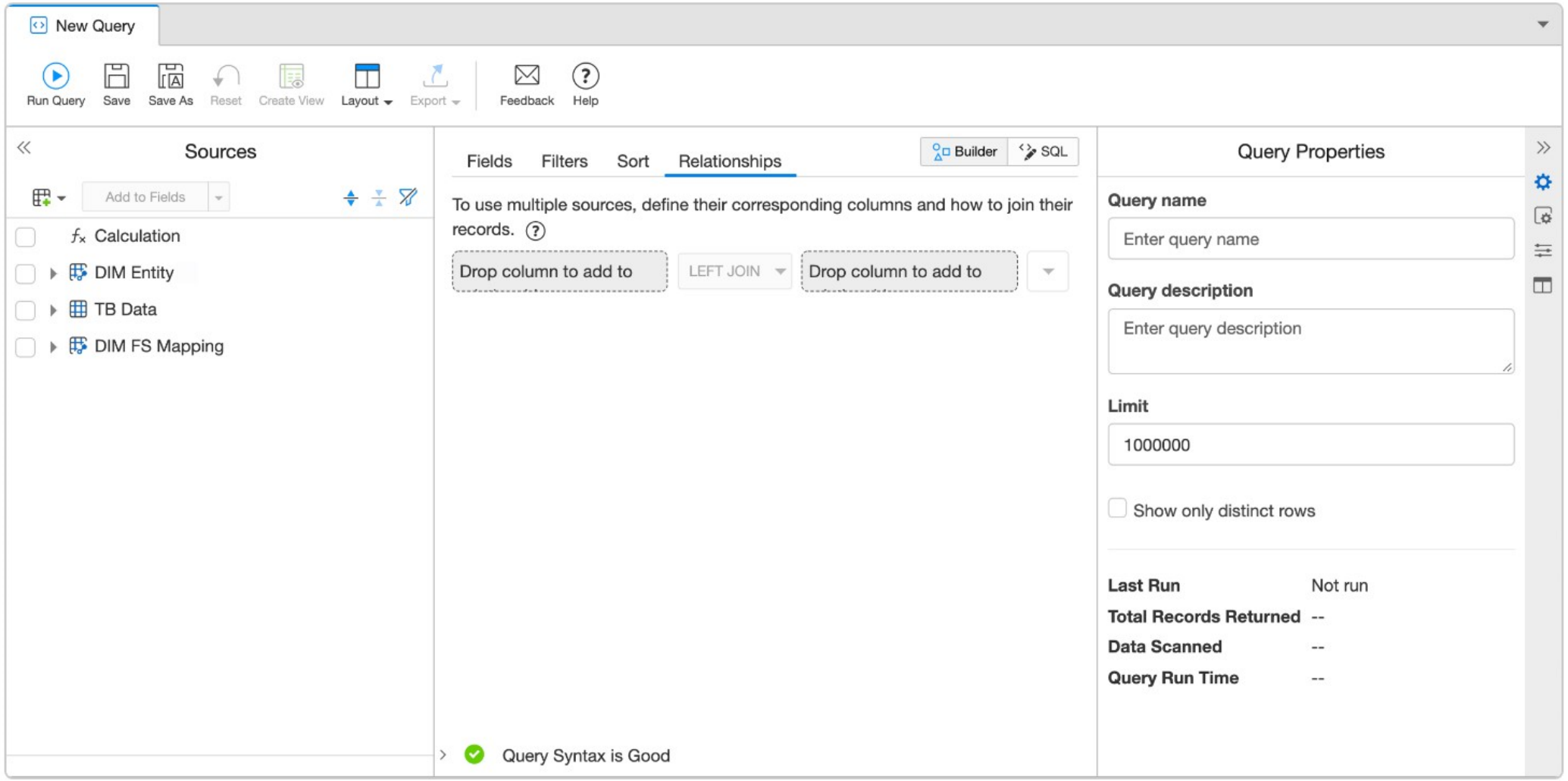


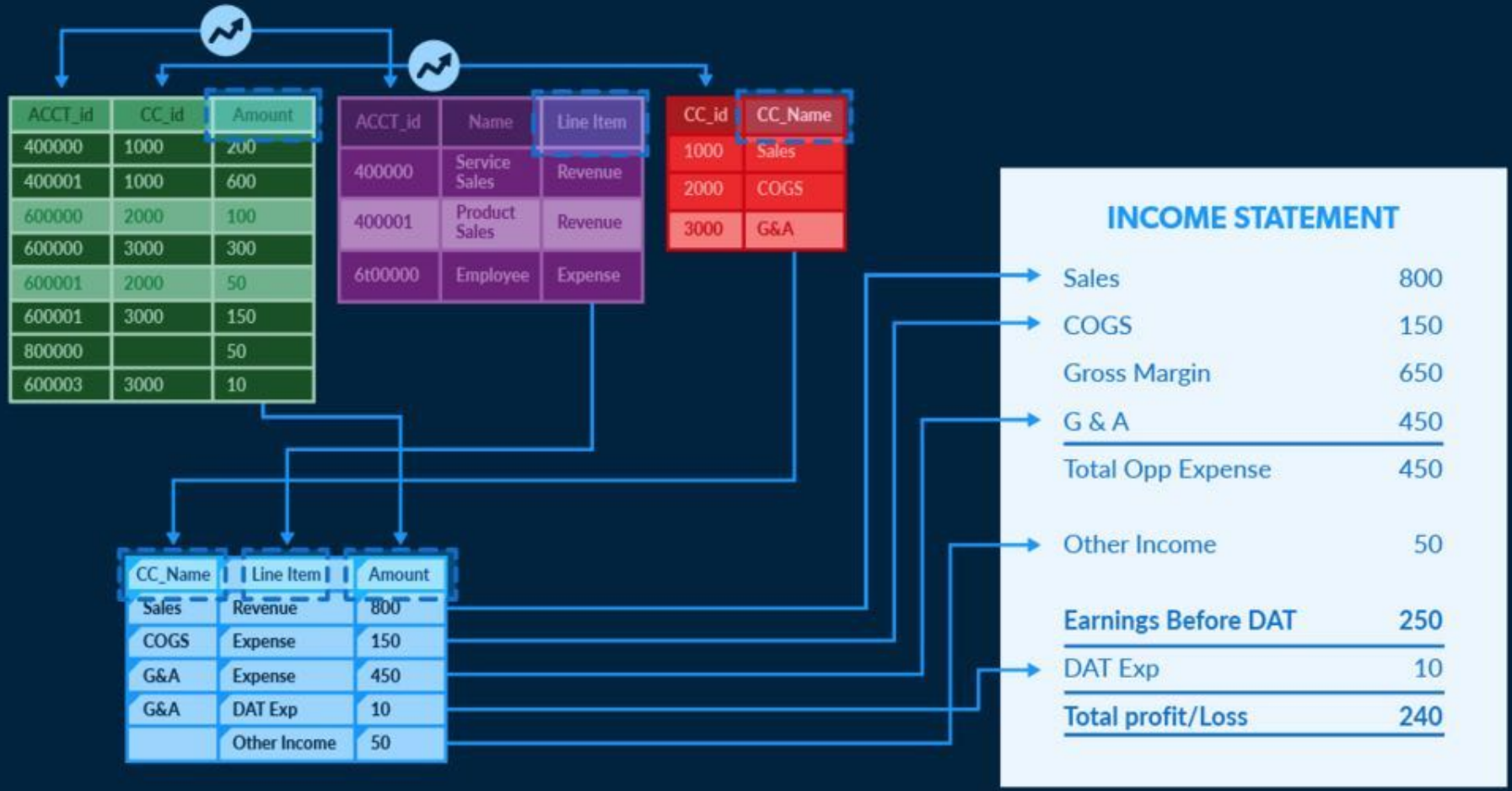
2 From the **Sources** panel, click **Add Sources**, and select **Add table data**.

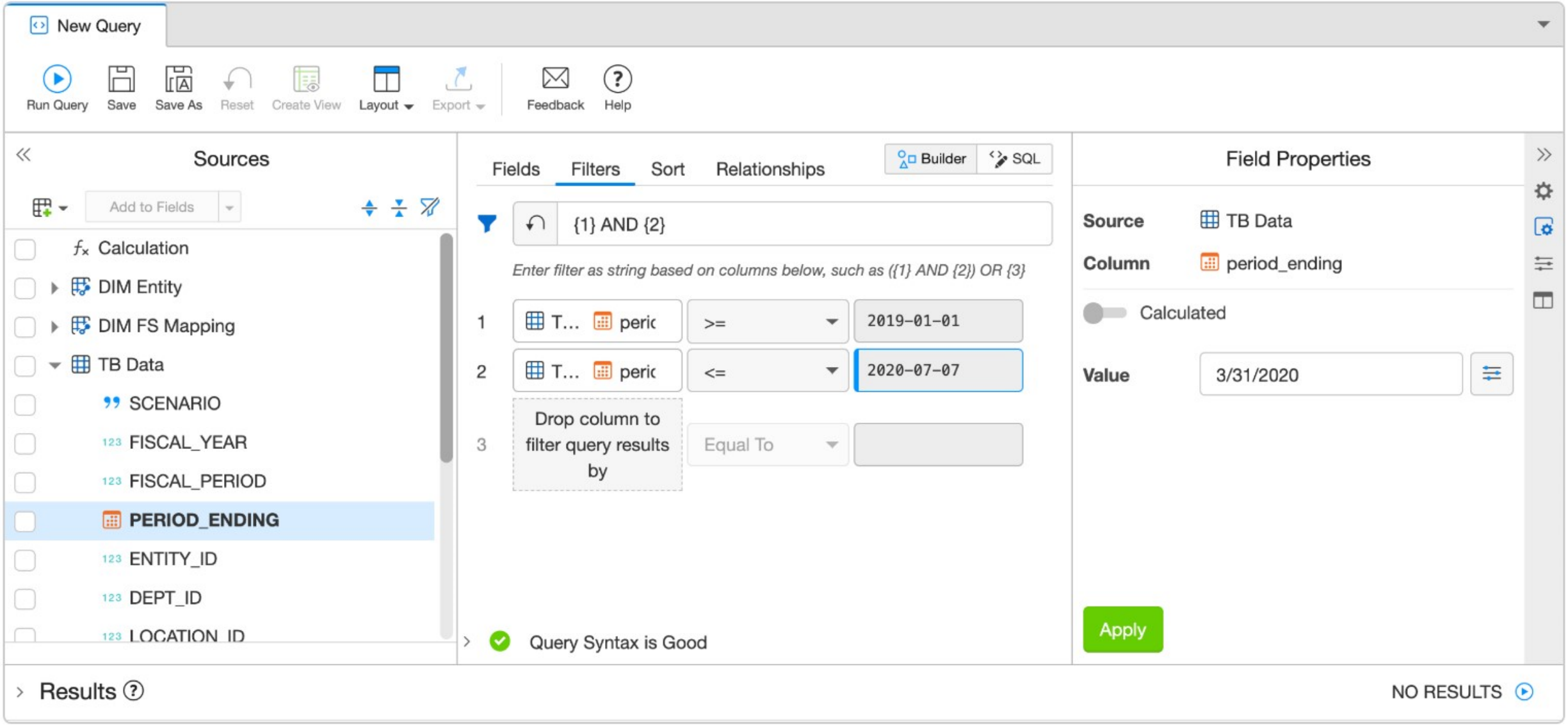
3 Select the tables to include—in this case, all tables in the Get Started Demo folder—and click **Add**.



1 Select the **Relationships** tab.




ACCT_id
CC_id
Amount
400000
1000
200
400001
1000
600
600000
2000
100
600000
3000
300
600001
2000
50
600001
3000
150
800000
50
600003
3000
10
ACCT_id
Name
Line Item
400000
Service Sales
Revenue
400001
Product Sales
Revenue
6t00000
Employee
Expense
CC_id
CC_Name
1000
Sales
2000
COGS
3000
G&A
CC_Name
Line Item
Amount
Sales
Revenue
800
COGS
Expense
150
G&A
Expense
450
G&A
DAT Exp
10
Other Income
50
INCOME STATEMENT
Sales 800
COGS 150
Gross Margin 650
G & A 450
Total Opp Expense 450
Other Income 50
Earnings Before DAT 250
DAT Exp 10
Total profit/Loss 240



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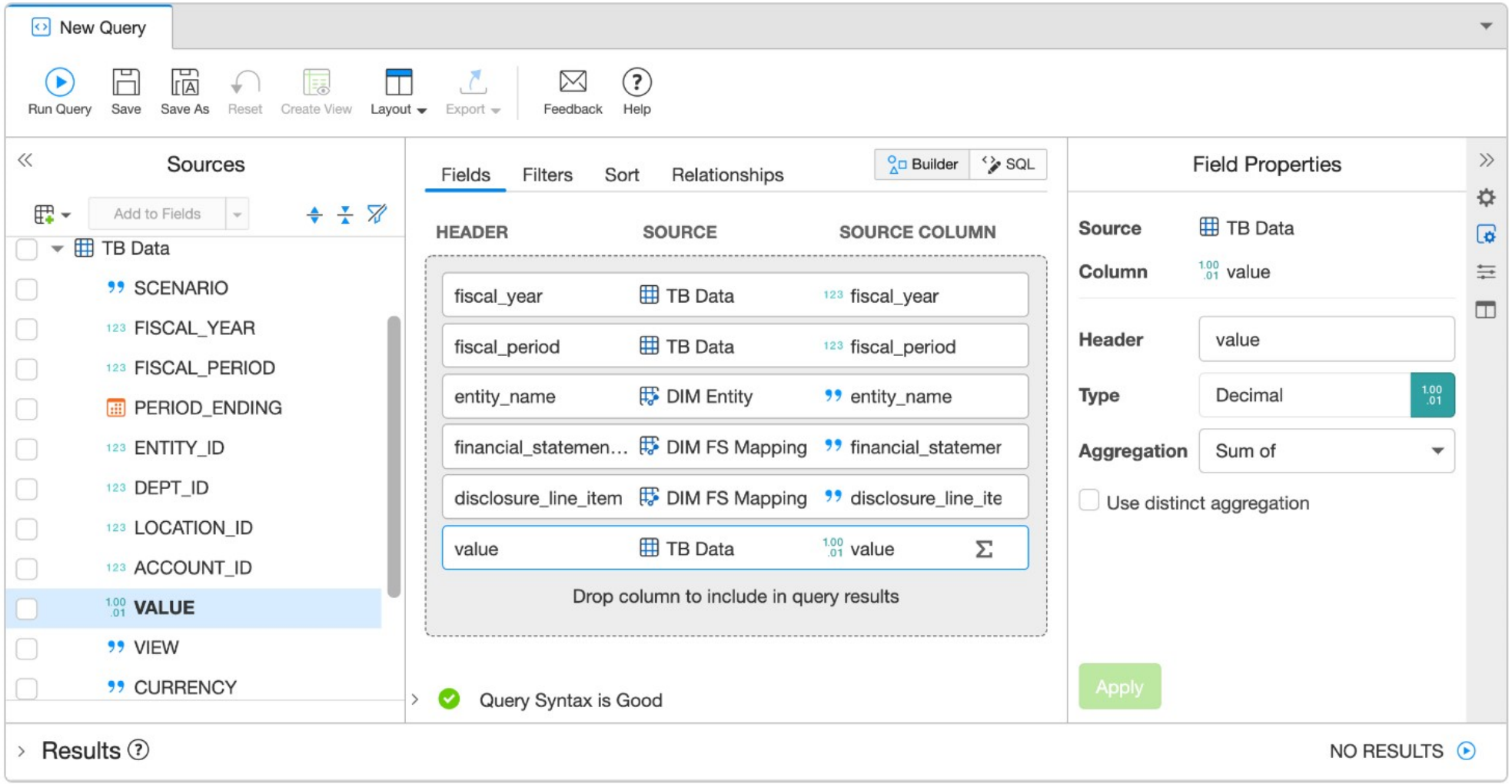
1 To select information to include in the results, move its column from the **Sources** panel to the **Fields** tab.



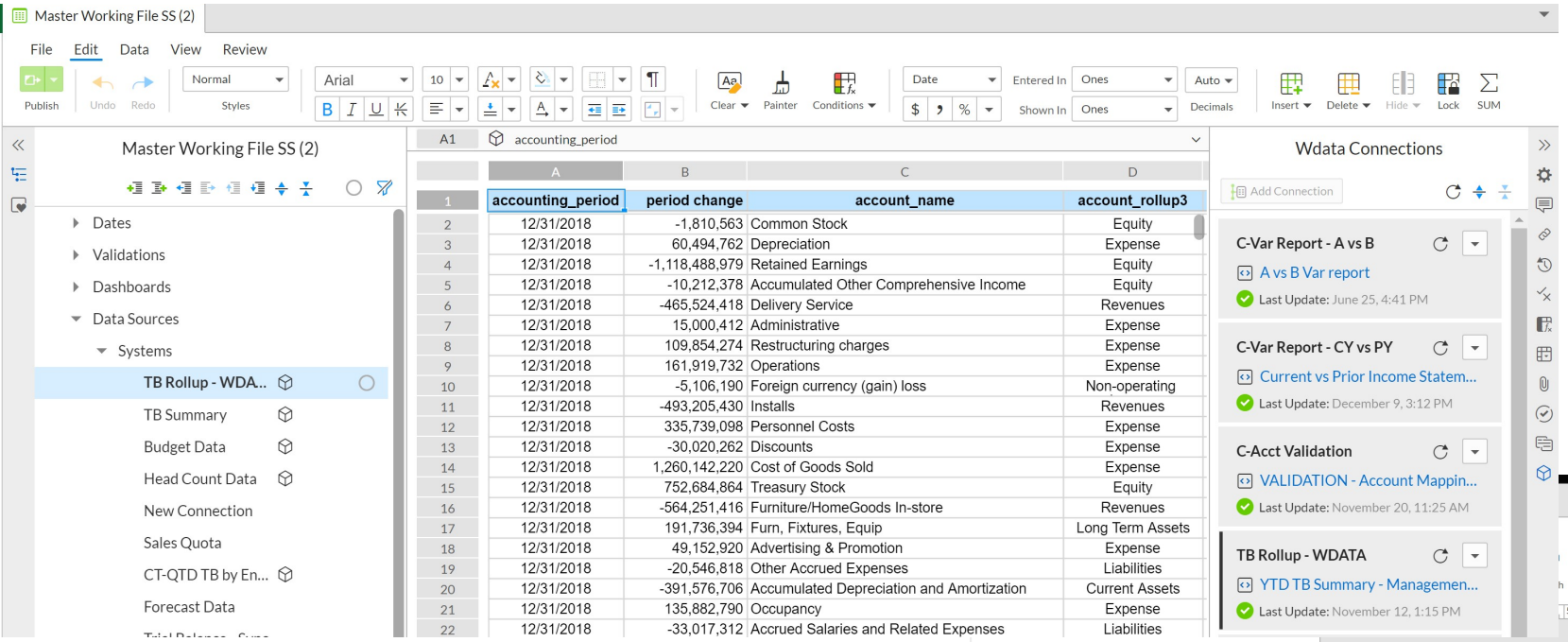
Extraction Summary

Create Query

- Select Sources
- Create Relationships (Make sure to JOIN on a Key column)
- Filter (Make dynamic with runtime Parameters)
- Select Columns to Display

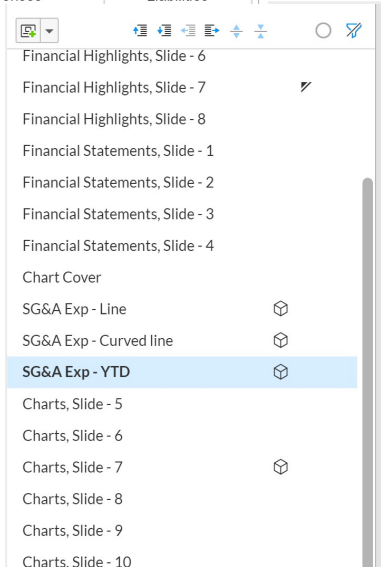
Data Consumption

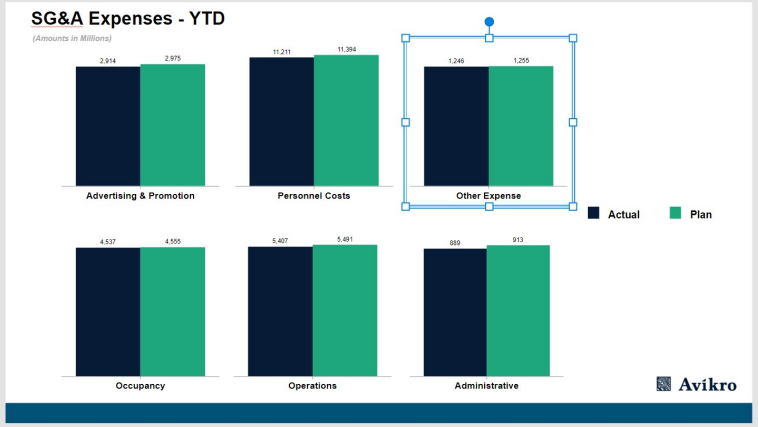
- Export to CSV
  - Extract data to be used anywhere
- Connected Sheets, tables, and Charts
  - Connected Wdata Queries that can be refreshed and adjusted via query parameters from the Wdata Panel
- Wdata Views
  - Used for research and exploring of query results
    - Pivoting
    - Drill-through

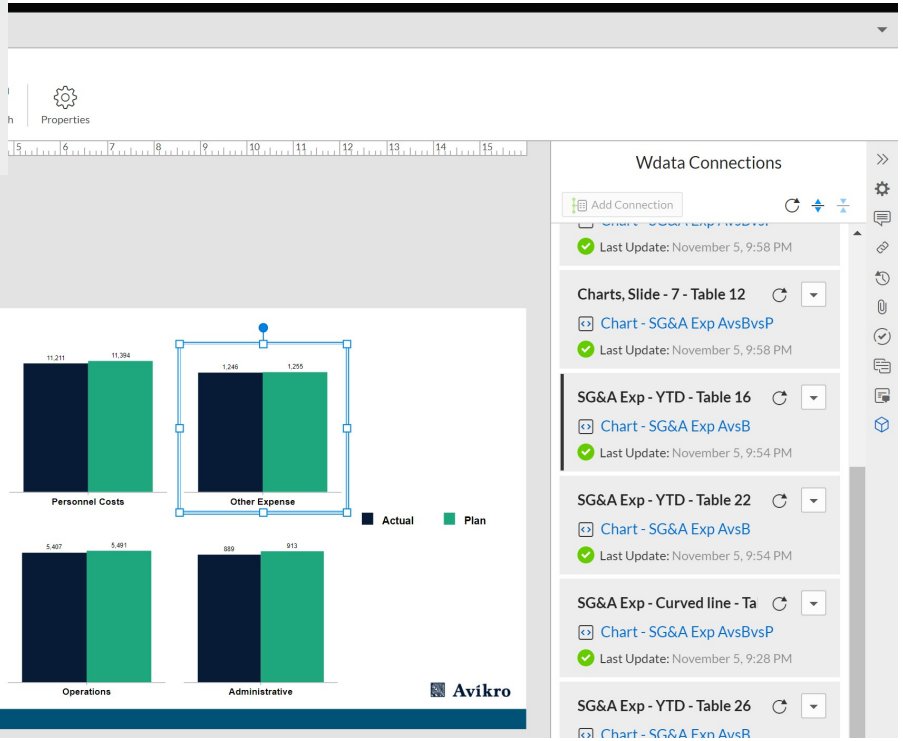


Connected

- Sheets
- Tables
- Charts

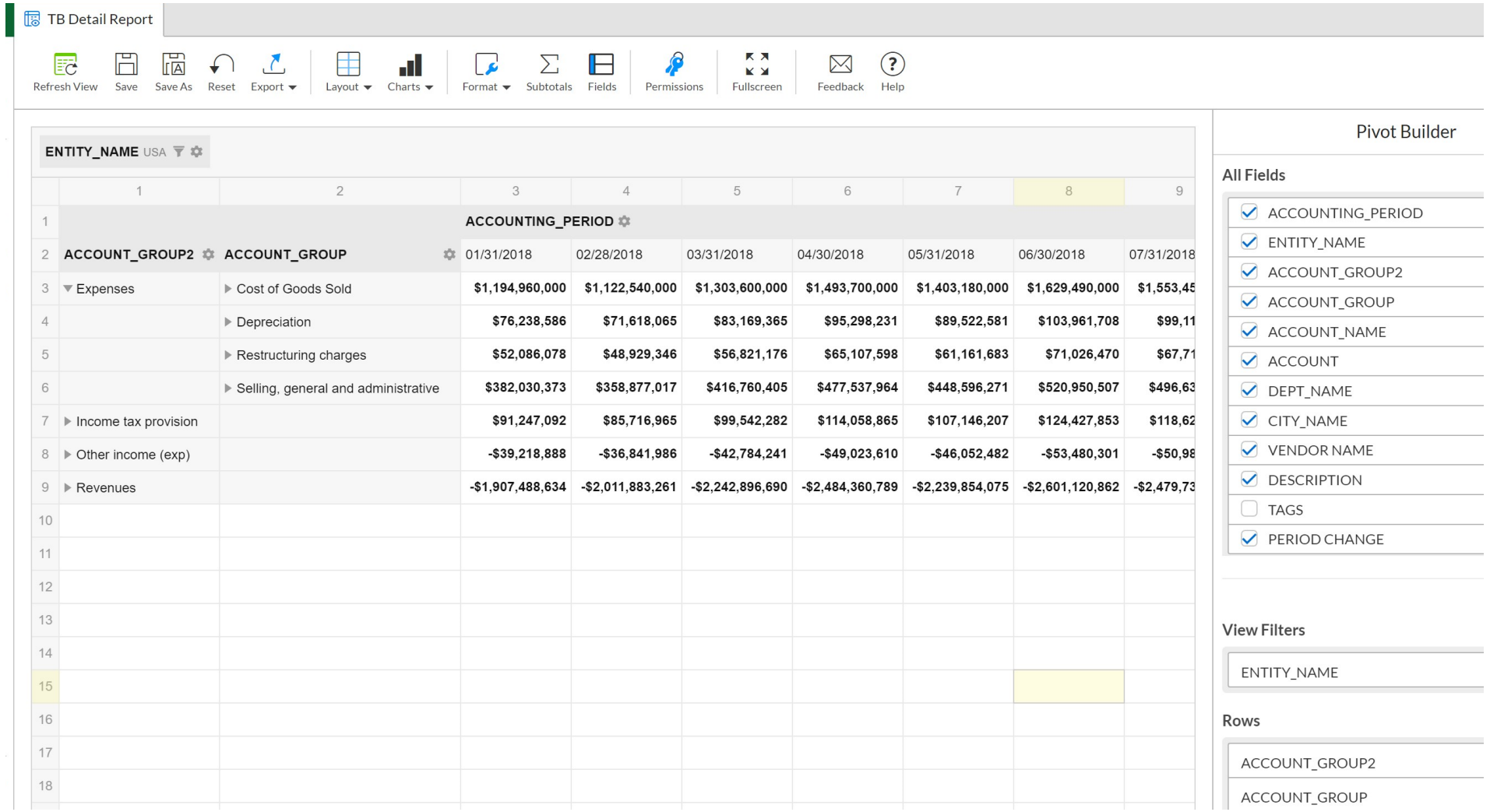






Workiva | PARTNER

Wdata Views



- Pivoting
- Exploring
- Drill-through

Consumption Summary

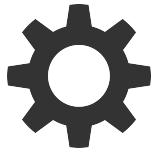
Queries

- Export Results as .csv
- Connected
  - Spreadsheets
  - Embedded Tables
  - Charts
- Views

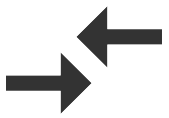
Wdata | Integrations

Workiva | PARTNER

Integration Overview



API’s - Secure interfaces for sharing and managing data, processes, and structures in Wdata.

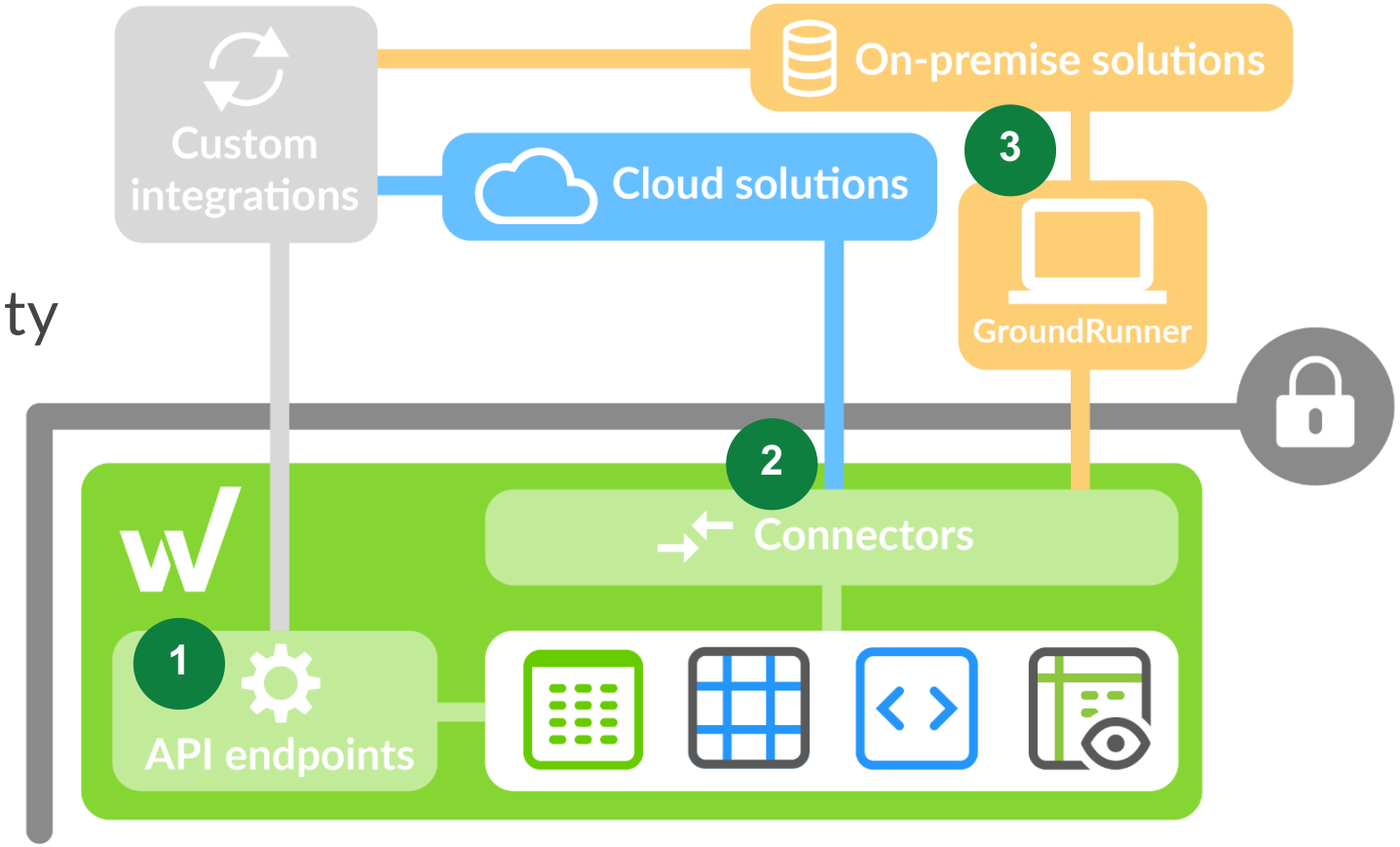


Connectors - Bi-directional orchestration and connectivity to systems/ technologies with pre-built connectors.

On-Premise Connectivity - Proxy command executor for on-premise connectivity; leveraging pre-built connectors and orchestration in a secure manner

Integration Architecture

1. API's
2. Connectors
3. On-Premise Connectivity



Connectors

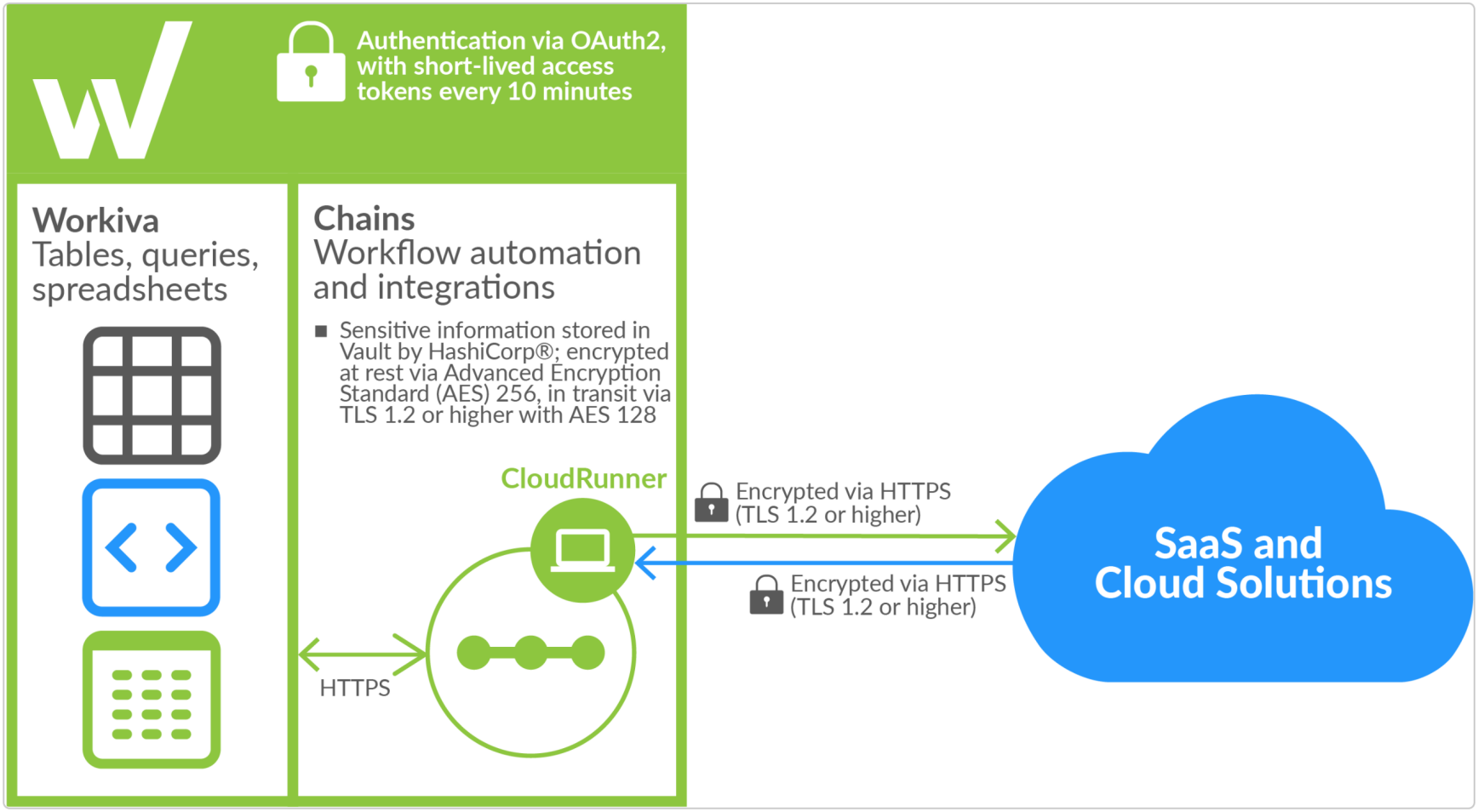
Platform	Premium			
Box	Adaptive Insights	Microsoft SQL Server	Oracle Financials Cloud	Sage Intacct
Dell Boomi	Amazon Redshift	MySQL	Oracle HCM Cloud	Salesforce
Email	Amazon S3	Namely	Oracle HFM Legacy	SAP BAPI RFC
Google Drive	Anaplan	Netsuite	Oracle Hyperion Financial Management	SAP Business Warehouse
HTTP	Blackline	Netsuite JDBC	Oracle OTBI	SAP HANA JDBC
Informatica Connector	Domo	Oracle Analytics Cloud	Oracle PBCS & EPBCS	Service Now
Microsoft OneDrive	FTPS	Oracle ARCS	Oracle PCMCS	SFTP Connector
Oracle EPM Utilities	Google BigQuery	Oracle DRM	Oracle RDBMS I ADW	Snowflake
Script Runner	Google Cloud Storage	Oracle E-Business Suite	Planful	Tableau
Snap Logic	IBM Db2	Oracle EDMCS	Postgres	Trintech Cadency
	IBM Planning Analytics TM1	Oracle Essbase	Power BI	UltiPro
	JDBC Operations	Oracle FCCS	Prevedere	VTS Connector
	Microsoft Dynamics CRM	Oracle FDMEE	QuickBooks	Workday

Orchestration

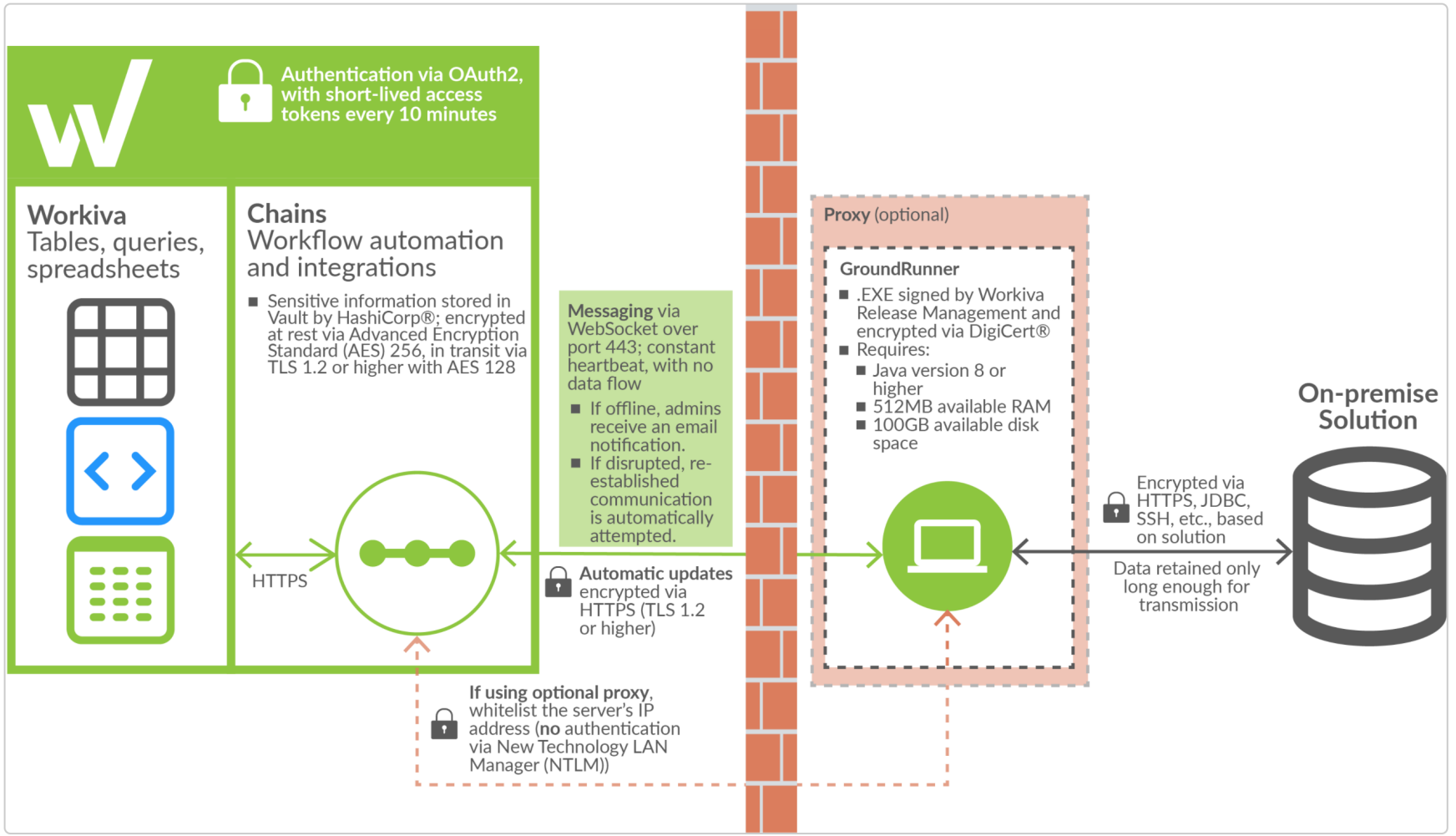
- Cloud Runner
  - Processes chain executions via Workiva's cloud platform
  - Workiva manages capacity and scaling

- Ground Runner
  - Process chain executions via an executable installed within the clients environment
  - Customer managed server or virtual machine must meet memory and storage requirements to manage capacity and scaling

Cloud Runner Architecture



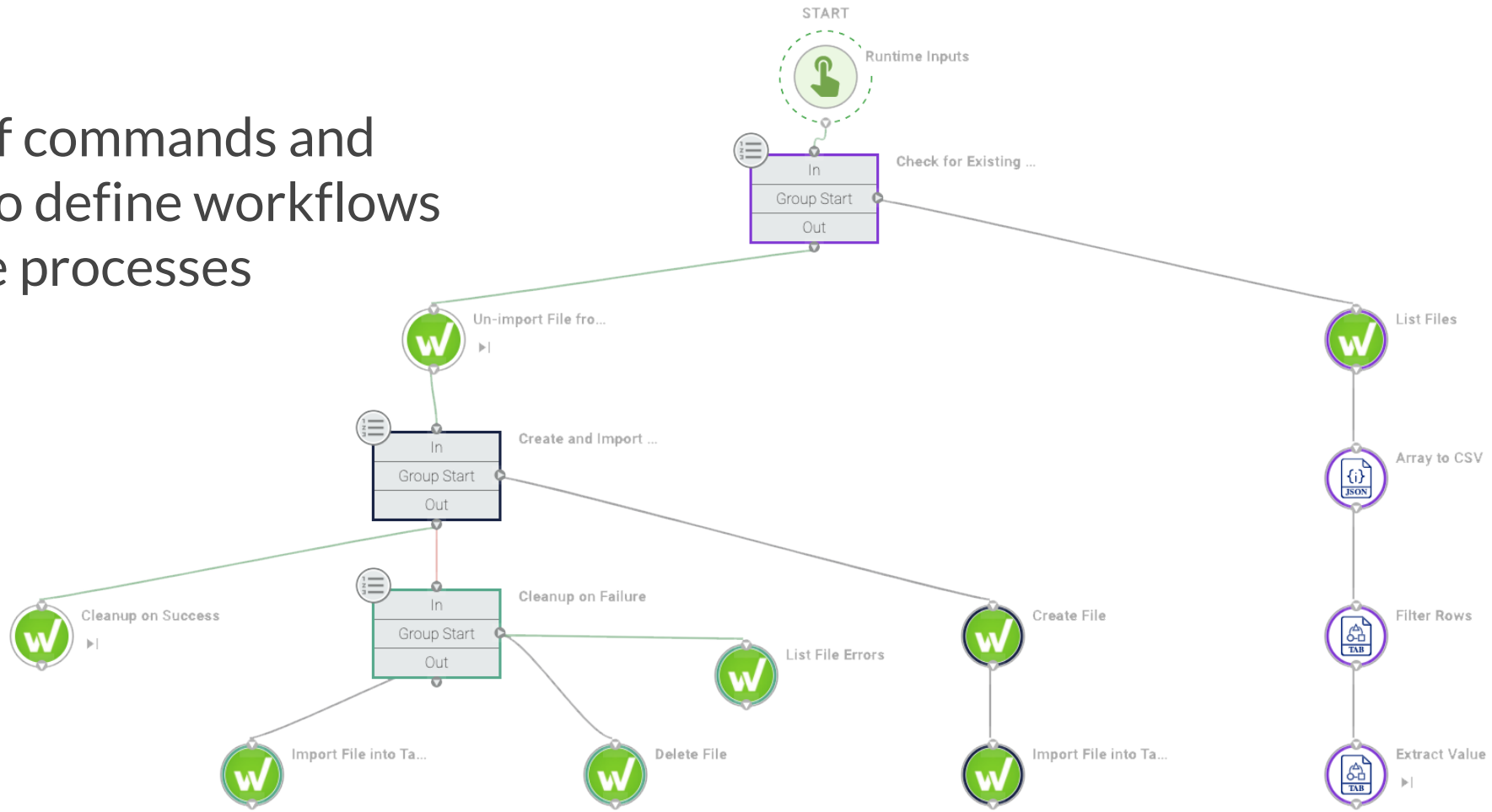
Ground Runner Architecture



Chain Basics

Chains

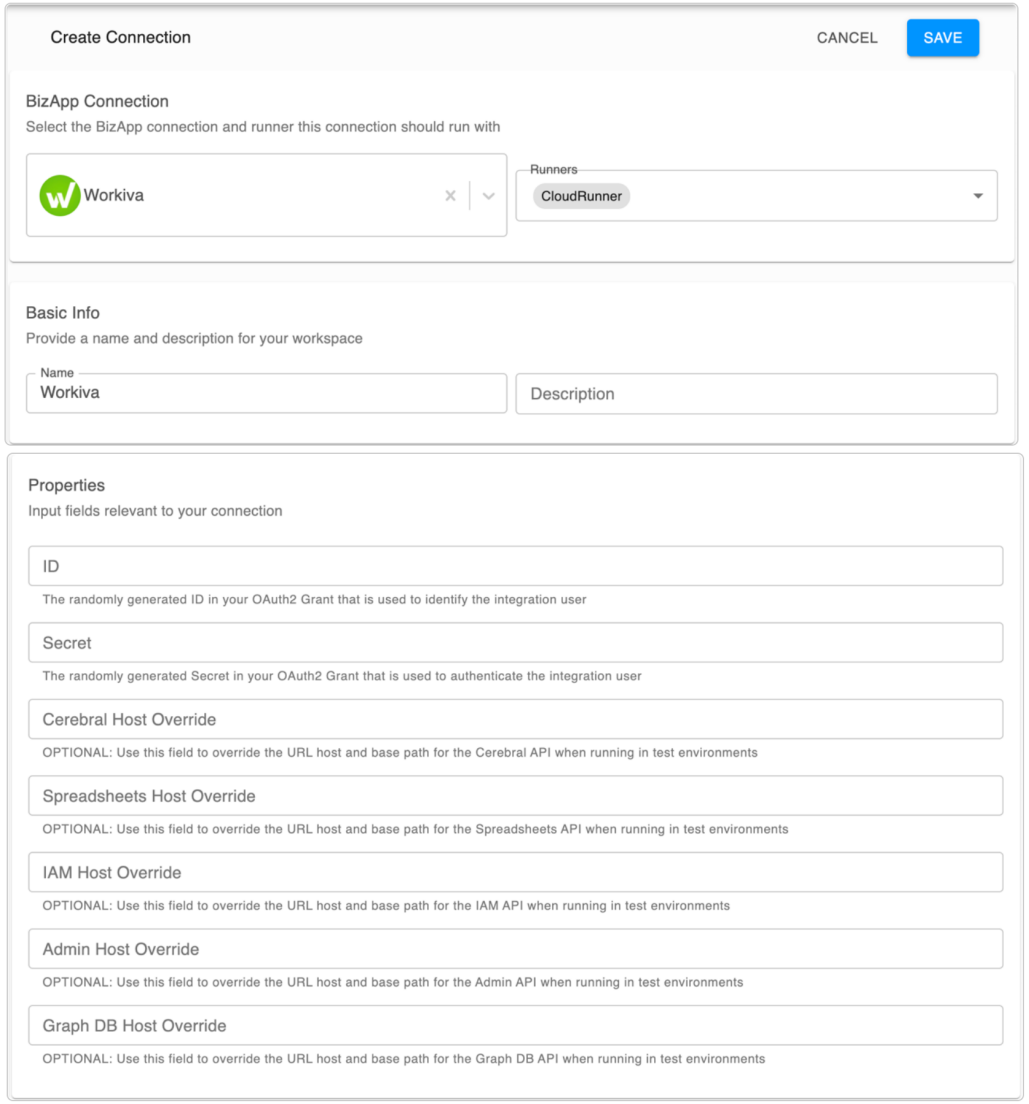
- A sequence of commands and events used to define workflows and automate processes



Chain Basics

Connections

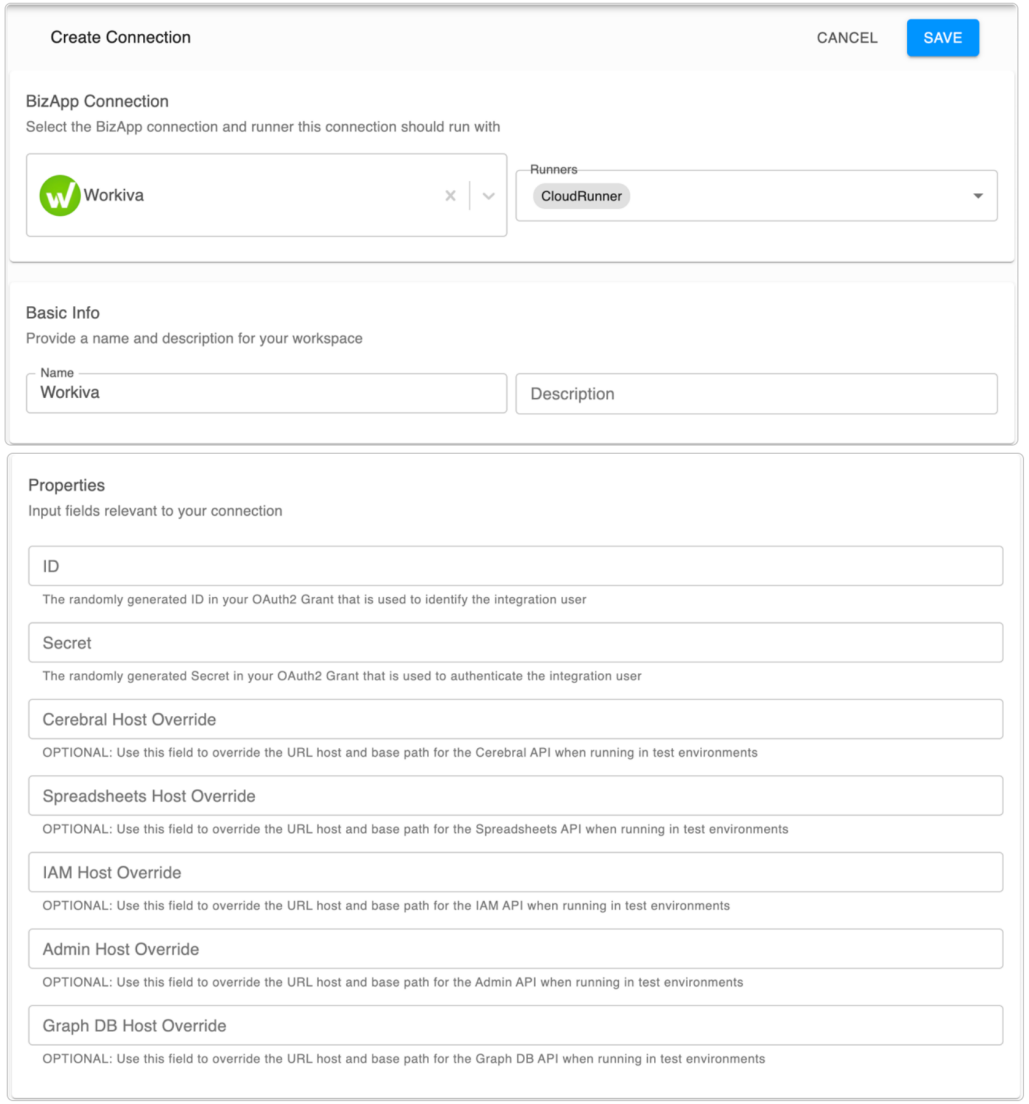
- Used to store credentials for third-party applications



Chain Basics

Execution

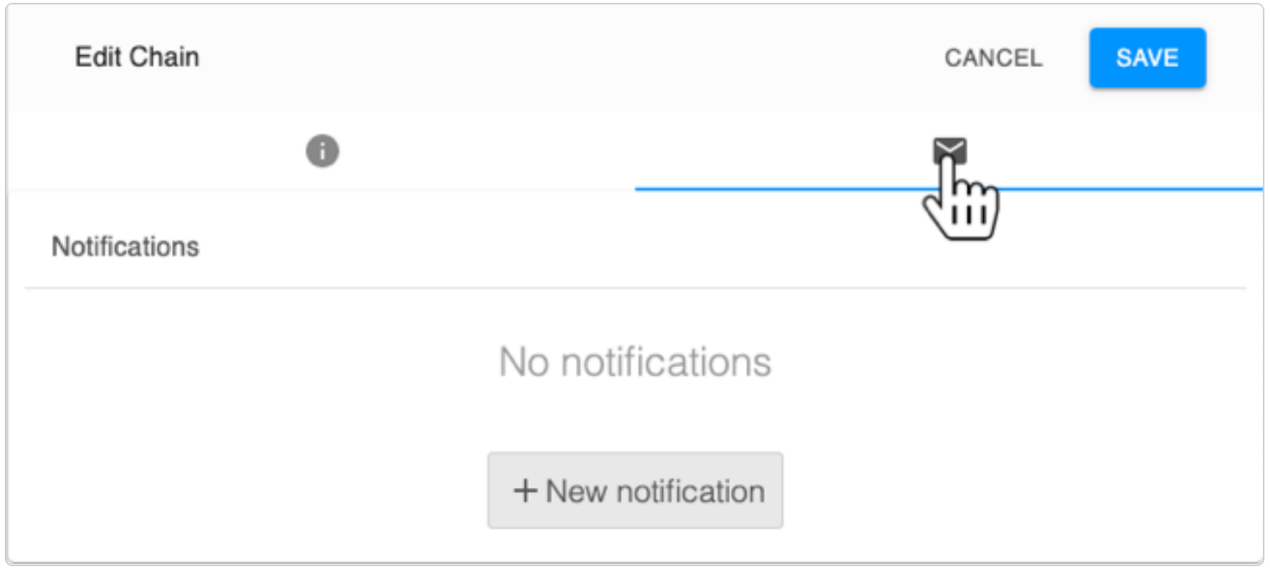
- Chains can be invoked directly by a user, scheduled, or triggered from another chain or external source



Chain Basics

Monitoring & Notifications

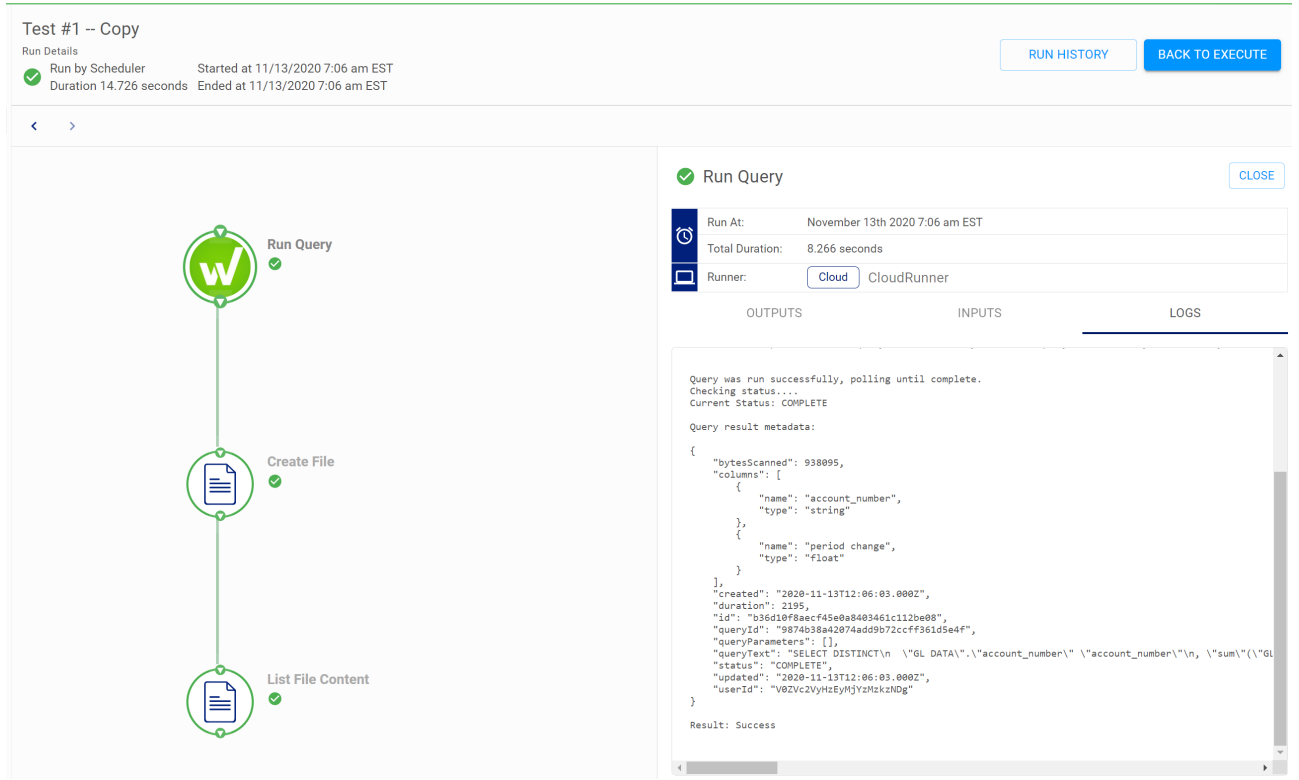
- Chains can be monitored from a dashboard and notifications can be sent by command or chain



Chain Basics

Troubleshooting

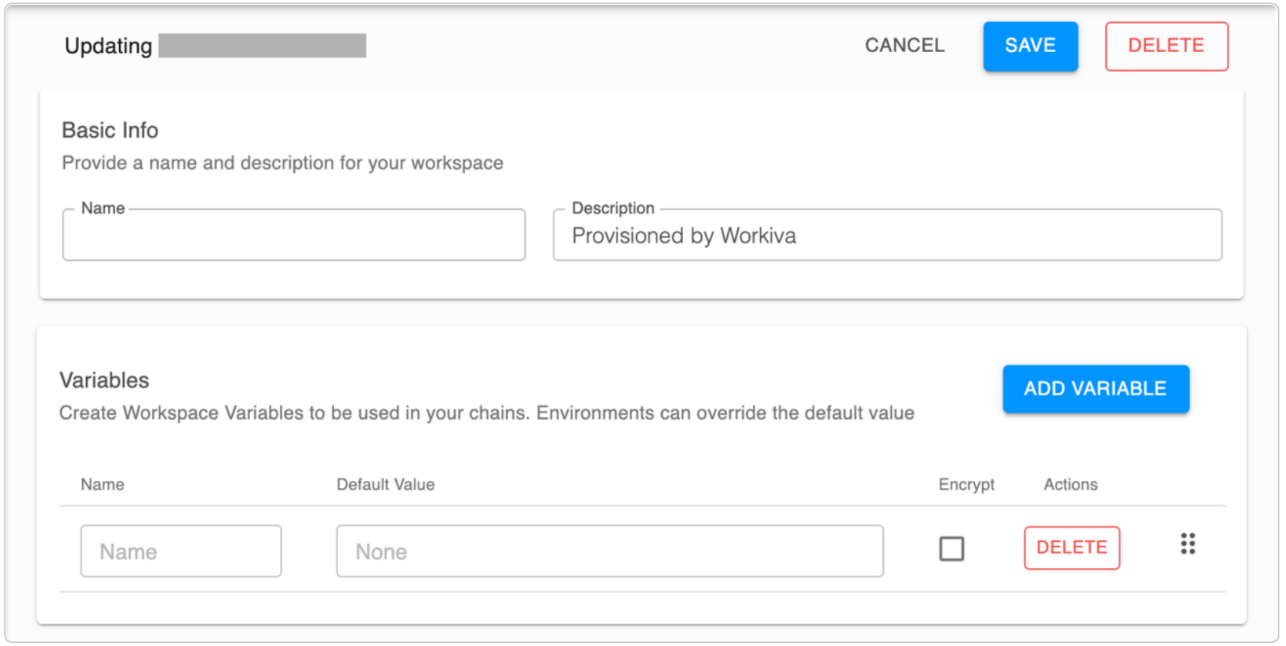
- The results of each command can be seen via the logs display which is best used for troubleshooting



Chain Basics

Variables

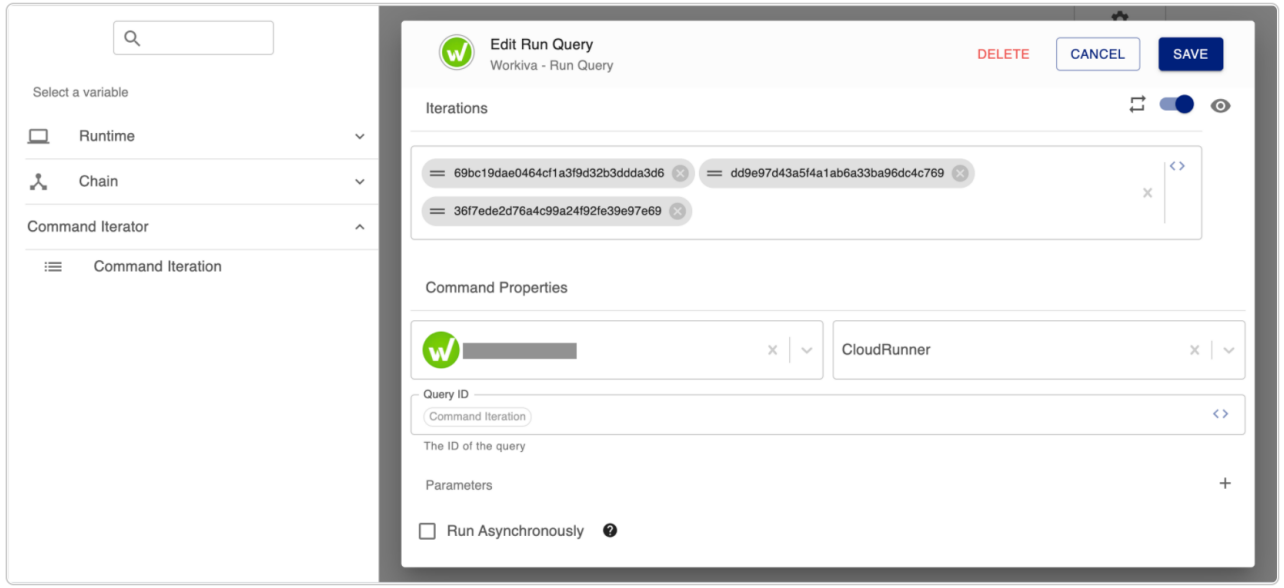
- Defined values that can be used across commands, chains, and environments



Chain Basics

Iterations

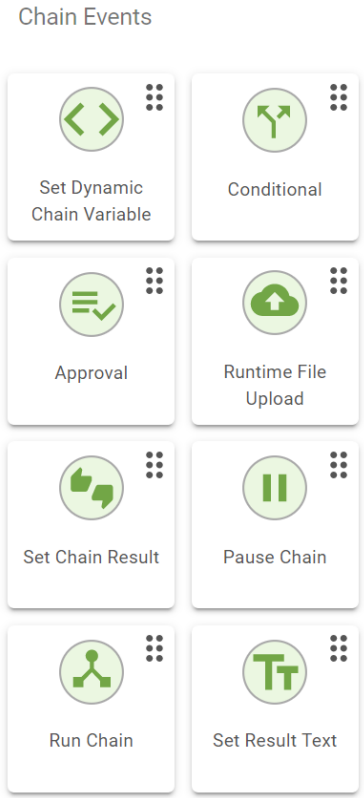
- Enable the ability to loop through a command or series of commands based on a dynamic list



Chain Basics

Events

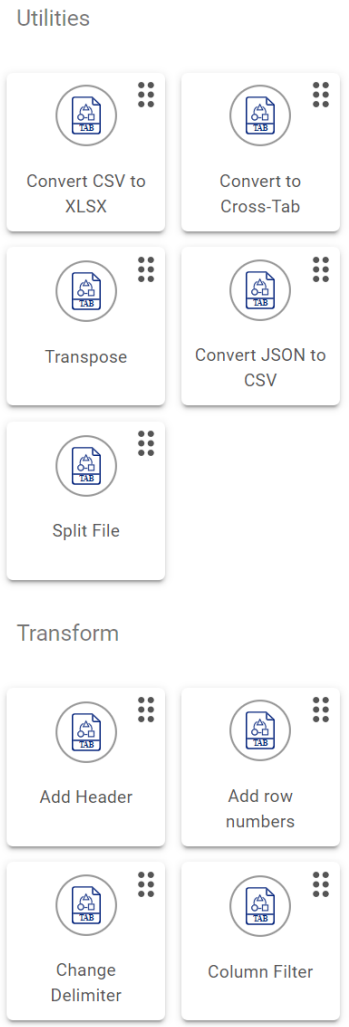
- Enable the ability to perform tasks within a chain such pause, run another chain, or set conditional logic



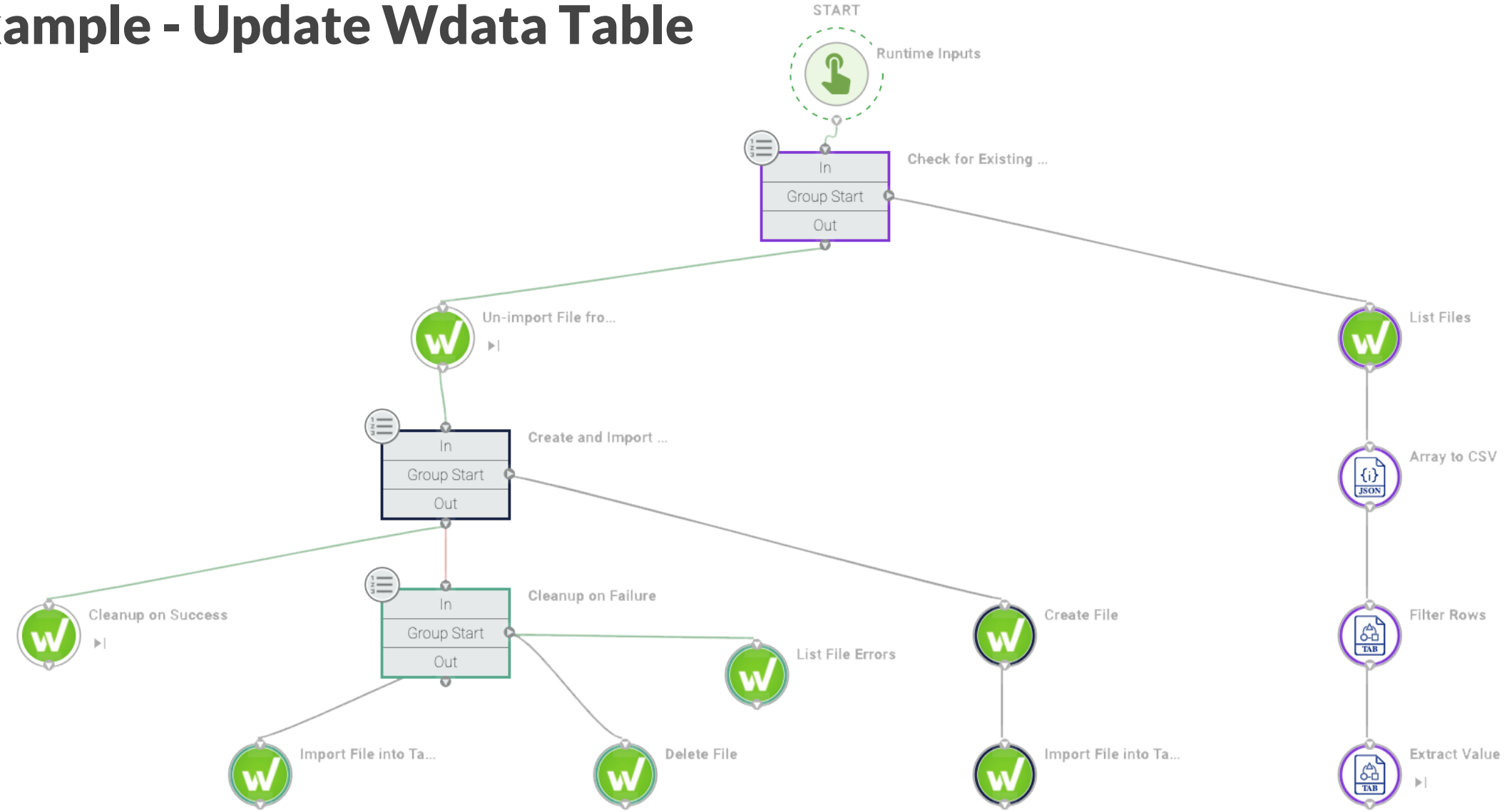
Chain Basics

Transformation Tools

- Commands within chains that provide the ability to transform and manipulate data



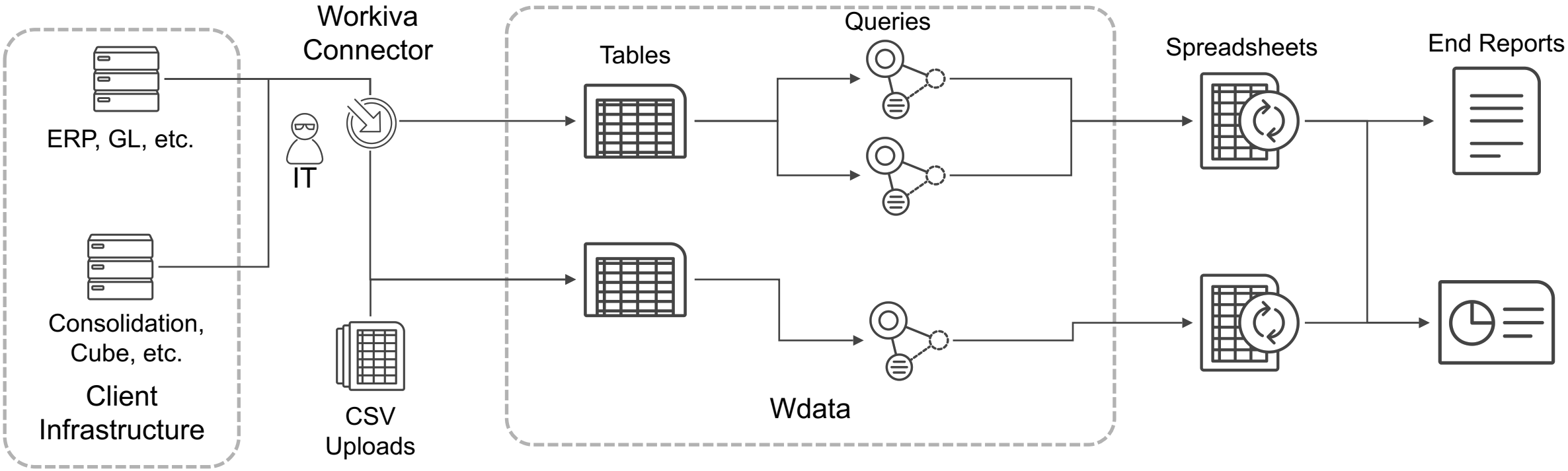
Chain Example - Update Wdata Table



Wdata | Scoping Projects

Workiva | PARTNER

Scoping Considerations



Sources

Which systems should be treated as "systems of record"

Which data sets should be connected?

Which data sets make more sense as a CSV upload?

Compliance

Are we compliant with policies?

How often, by whom, and with what access?

How long will it take to get clearance for the connections?

Data Loads

In what format(s) will Wdata receive data?

At what level of granularity?

What data is **necessary** to accomplish reporting desired outcomes?

What hierarchies might be required?

Data Services

What gap exists between system-formatted data and reporting-formatted data?

How would hierarchies be applied?

How many consumers would benefit from these views?

Spreadsheets

Do spreadsheets in Wdesk or Excel Workbooks exist today?

What gets replaced by Wdata, what will be tweaked to feed off of Wdata?

Any non-Wdata-related Spreadsheet work to be done?

Reports

Which are in-scope as consumers of the Wdata implementation?

Anything new to build or anything existing to re-work?

Additional Resources

Support Site: https://support.workiva.com/hc/en-us/categories/360002307351-Working-in-Wdata

Developers Site: https://developers.workiva.com/

The Community: https://support.workiva.com/hc/en-us/community/topics

Partner Portal: partners.workiva.com