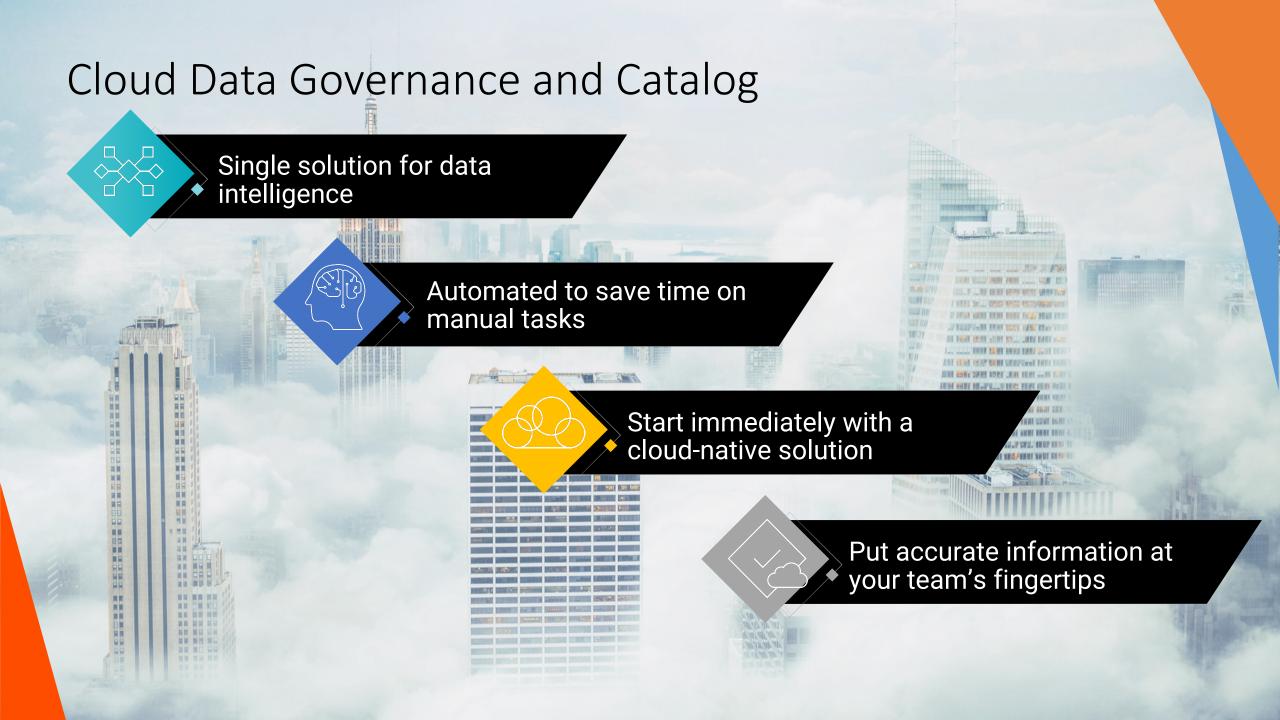
# Cloud Data Governance and Catalog Custom Scanner DBT with Snowflake case study

Sachin Jain - Principal Solutions Architect

Rashmi P - Solutions Architect



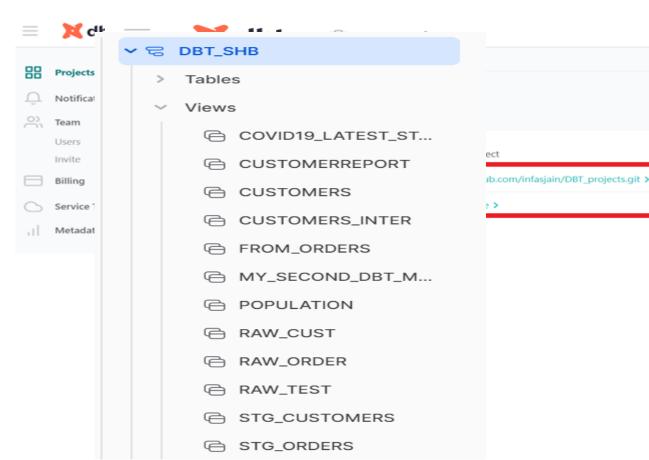


#### **DBT** and Snowflake

Data Building Tool is a command-line tool that enables data analysts and engineers to transform data in their warehouses simply by writing select statements.

Git repository and Snowflake Data warehouse Configuration

DBT – YML and SQL files
Snowflake Tables and Views





#### **DBT Lineage Graph**

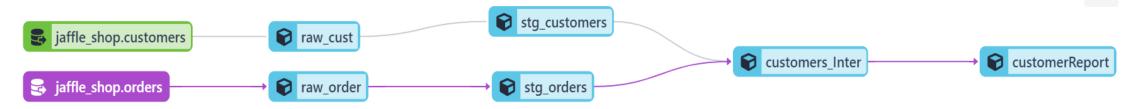
#### Source YML File

```
version: 2
     sources:
       - name: jaffle_shop
         database: RAW
 6
         tables:
           - name: orders
8
           - name: customers
9
10
       - name: stripe
         tables:
11
           - name: payments
12
```

#### **Lineage Graph**

#### SQL file

```
customerReport.sql
     with customer as (
 2
 3
         select * from {{ ref('customers Inter') }}
 4
 5
     final as (
 8
         select
 9
10
              customers_Inter.customer_id,
```

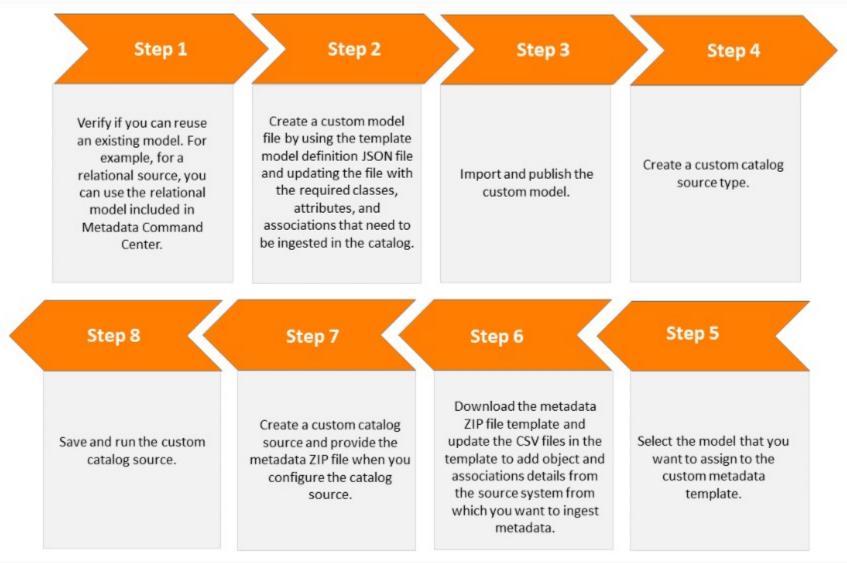




### Custom Scanner

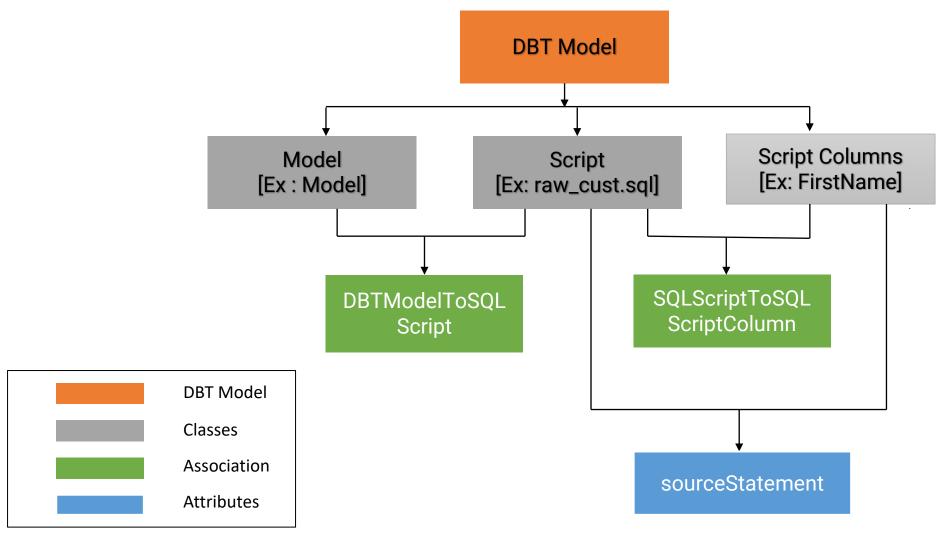


#### CDGC – Custom scanner steps





#### DBT – Custom Scanner Model and Associations



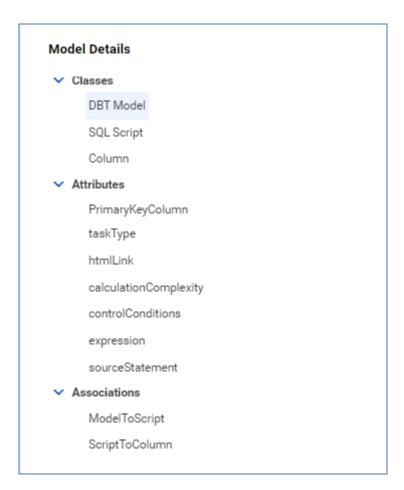


#### Model Definition File

#### Model file:

- 1.Package [ custom.dbtmodel ]
- 2.Classes [DBTModel, SQLScript, SQLScriptColumn]
- 3.Association [DBTModelToSQLScript,SQLScriptToSQLScriptColumn]
- 4. Attributes [sourceStatement]







#### Metadata Definition File



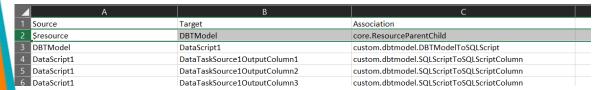
#### custom.dbtmodel.SQLScript.csv



#### custom.dbtmodel.DBTModel.csv

A	В	C	D			G	Н
1 core.externalId	core.name	core.description	core.businessDescrip	core.busir	core.refe	rence	
2 DBTMODEL	MODEL	THIS IS A MODEL IN DBT MODEL					
3							

#### Links.csv



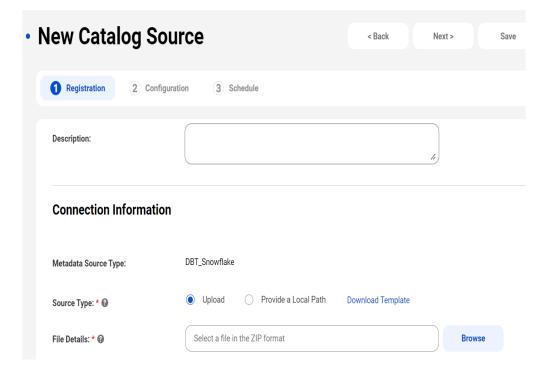
#### custom.dbtmodel.SQLScriptColumn.csv

	Α	В	С	D	E	F	G	Н	1	J	K
1	core.externalId	core.name	core.descr core.busin core.busin core.refer custom.dbtmodel.sourceStatement								
2	DataTaskSource1OutputColumn1	CUSTOMER_ID									
3	DataTaskSource1OutputColumn2	FIRST_NAME									
4	DataTaskSource1OutputColumn3	LAST_NAME									
-											



#### **Custom Catalog Source**

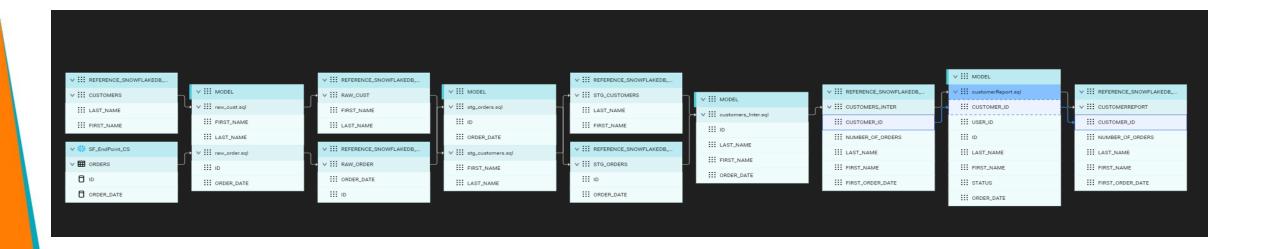
# Catalog Source Customization Data Classification Lookup Table Demo\_DBTModel Demo\_DBTModel sachin\_dbt





#### Lineage and Connection Assignment

Scan the Snowflake resource for connection assignment as the reference assets are replaced by actual physical assets





#### References

- Cloud Data Governance and Catalog: <u>Click Here</u>
- Introduction and Getting Started: Click Here
- Governance: Bulk Upload Business Metadata
- Custom Scanner: Click Here
- Metadata Command Center:
  - Catalog Scanner Configuration
  - Creating Catalog Source
  - Configure Runtime Environments



## DEMO

CDGC – Custom Scanner Case Study



