

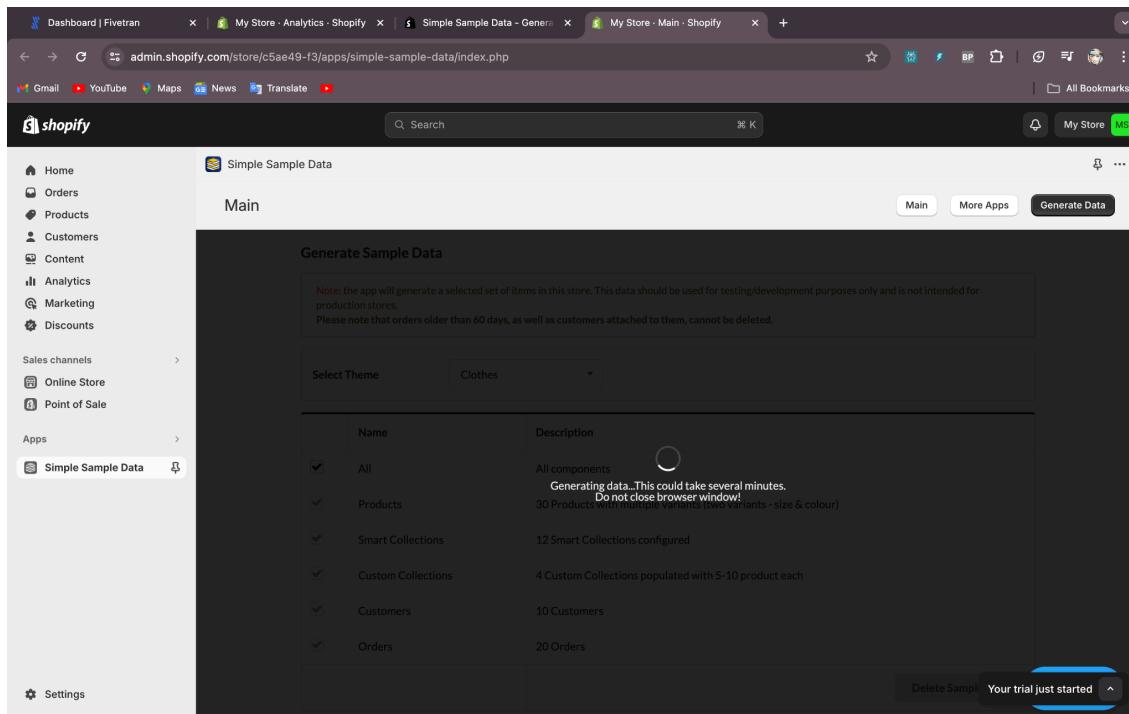
NAME:-ABHYUDAYA
Roll No.: - 2301010007

Assignment 2: Building an ETL Pipeline with Fivetran

Objective: Develop a functional ETL (Extract, Transform, Load) pipeline that integrates Shopify data with Snowflake using Fivetran. This project will enhance your understanding of data integration tools and cloud data warehousing.

Step 1

Creating Dummy Data on Shopify: The process involves setting up a Shopify account and generating a dummy dataset using an app within Shopify. The dummy data includes product details, customer information, and order history, essential for testing purposes.



The screenshot shows the Shopify Admin interface with the Simple Sample Data app open. The left sidebar shows navigation links like Home, Orders, Products, Customers, Content, Analytics, Marketing, Discounts, Sales channels, Online Store, and Point of Sale. The main content area has a dark header "Simple Sample Data" and a sub-header "Main". Below that is a "Generate Sample Data" section with a note about the app's purpose and a "Select Theme" dropdown set to "Clothes". A table lists data generation options: "All" (All components, Generating data...), "Products" (30 Products with multiple variants), "Smart Collections" (12 Smart Collections configured), "Custom Collections" (4 Custom Collections populated with 5-10 product each), "Customers" (10 Customers), and "Orders" (20 Orders). At the bottom right, there are buttons for "Delete Sample" and a message "Your trial just started".

Dashboard | Fivetran | My Store - Analytics - Shop | Simple Sample Data - Get Started | My Store - Main - Shopify | Worksheets - Snowflake | Welcome To Snowflake! | +

fivetran.com/integrations/snowflake?groupId=registry_existing&unsaved=true&testing=false

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- Connectors
- Transformations
- Destinations

Trial usage estimator calculator icon

Alerts

Account Settings

Resources & Support

Abhyudaya

Snowflake

If you need help, invite a teammate or view the setup guide.

Destination: ShopifyDestinationConnector

Host: tmlonry-lo41401.snowflakecomputing.com

Port: 443

User: fivetran_user

Database: fivetran

Auth: PASSWORD

Save & Test

Setup Guide edit on GitHub icon

Follow our setup guide to connect your Snowflake data warehouse to Fivetran.

Prerequisites

To connect Snowflake to Fivetran, you need the following:

- A Snowflake account with the appropriate permissions to create a user and warehouse for Fivetran.
- A Fivetran role with the [Create Destinations or Manage Destinations](#) permissions.
- Your Snowflake data warehouse's collation should be capable of handling both case-sensitive and non-ASCII characters to ensure the integrity of your data.

NOTE: We do not recommend applying custom collation to your account, database, schema, table, or column. Instead, utilize collation directly in your queries. Custom collation reduces column storage (String) from 16 MB to 8 MB. If we attempt to load more than 8 MB of your data into a column with collation enabled, you will see a [String is too long to be compared using collation error](#).

IMPORTANT: In Snowflake, if you use double quotes around an identifier name, it makes the identifier name case-sensitive. We recommend using the `<identifier> <identifier_name>` or the `create <identifier> "IDENTIFIER_NAME"` format. See [Snowflake's documentation on identifiers](#) for more information.

Dashboard | Fivetran | My Store - Analytics - Shop | Simple Sample Data - Get Started | My Store - Products - Shopify | Worksheets - Snowflake | Welcome To Snowflake! | +

admin.shopify.com/store/c5ae49-f3/products?selectedView=all

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Shopify

Search

All Active Draft Archived +

	Product	Status	Inventory	Sales channels	Markets	Category	Vendor
<input type="checkbox"/>	ADIDAS CLASSIC BACKPACK	Active	14 in stock for 1 variant	2	2	ACCESSORIES	ADIDAS
<input type="checkbox"/>	ADIDAS CLASSIC BACKPACK LEGEND INK MULTICOLOUR	Active	11 in stock for 1 variant	2	2	ACCESSORIES	ADIDAS
<input type="checkbox"/>	ADIDAS KID'S STAN SMITH	Active	37 in stock for 2 variants	2	2	SHOES	ADIDAS
<input type="checkbox"/>	ADIDAS SUPERSTAR 80S	Active	92 in stock for 7 variants	2	2	SHOES	ADIDAS
<input type="checkbox"/>	ASICS TIGER GEL-LYTE V '30 YEARS OF GEL' PACK	Active	28 in stock for 3 variants	2	2	SHOES	ASICS TIGER
<input type="checkbox"/>	CONVERSE CHUCK TAYLOR ALL STAR II HI	Active	66 in stock for 7 variants	2	2	SHOES	CONVERSE
<input type="checkbox"/>	CONVERSE CHUCK TAYLOR ALL STAR LO	Active	129 in stock for 11 variants	2	2	SHOES	CONVERSE
<input type="checkbox"/>	CONVERSE TODDLER CHUCK TAYLOR ALL STAR AXEL MID	Active	58 in stock for 5 variants	2	2	SHOES	CONVERSE
<input type="checkbox"/>	DR MARTENS 1460Z DMC 8-EYE BOOT CHERRY SMOOTH	Active	107 in stock for 11 variants	2	2	SHOES	DR MARTENS
<input type="checkbox"/>	DR MARTENS 1461 DMC 3-EYE SHOE BLACK SMOOTH	Active	80 in stock for 8 variants	2	2	SHOES	DR MARTENS
<input type="checkbox"/>	DR MARTENS CAVENDISH 3-EYE SHOE BLACK	Active	43 in stock for 6 variants	2	2	SHOES	DR MARTENS
	IT MINI OTTOMAN BLACK	Active	46 in stock for 4 variants	2	2	ACCESSORIES	FLEX FIT

Your trial just started ^

https://admin.shopify.com/store/c5ae49-f3/products/7620302405676

The screenshot shows the Shopify Admin interface with the 'Customers' page selected. The left sidebar has 'Customers' highlighted with a blue border. The main content area displays a table of 10 customer records. Each record includes a checkbox, the customer's name, their email subscription status, their location, the number of orders they have placed, and the total amount spent. The table is sorted by name. A search bar at the top allows filtering by customer name. Buttons for 'Export', 'Import', and 'Add customer' are located at the top right. A message at the bottom right says 'Your trial just started'. The URL in the address bar is <https://admin.shopify.com/store/c5ae49-f3/customers>.

	Customer name	Email subscription	Location	Orders	Amount spent
<input type="checkbox"/>	Joseph Mccoy	Not subscribed	Berlin, United Kingdom	9 orders	₹1.80
<input type="checkbox"/>	Ivor Le	Not subscribed	Detroit, Mali	11 orders	₹2.30
<input type="checkbox"/>	Conan Davis	Not subscribed	Gulfport, Equatorial Guinea	0 orders	₹0.00
<input type="checkbox"/>	George Maynard	Not subscribed	Virginia Beach, Lithuania	0 orders	₹0.00
<input type="checkbox"/>	Xander Gomez	Not subscribed	Halberstadt, Türkiye	0 orders	₹0.00
<input type="checkbox"/>	Alec Ortiz	Not subscribed	Telde, Philippines	0 orders	₹0.00
<input type="checkbox"/>	Gabriel Anderson	Not subscribed	Newcastle, Faroe Islands	0 orders	₹0.00
<input type="checkbox"/>	Keane Randolph	Not subscribed	Saint-Lo, Dominica	0 orders	₹0.00
<input type="checkbox"/>	Maxwell Mathis	Not subscribed	Bayswater, Slovenia	0 orders	₹0.00
<input type="checkbox"/>	Keefe Holloway	Not subscribed	Greater Hobart, Andorra	0 orders	₹0.00

Step2:-

Using Fivetran for ETL: Fivetran acts as the mediator to extract data from Shopify, transform it, and load it into Snowflake. The setup involves connecting Shopify to Fivetran and configuring the destination as Snowflake.

Dashboard | Fivetrans My Store - Analytics Simple Sample Data My Store - Customers FIVETRAN_METADATA Welcome To Snowflake!

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Connectors [My Bookmarks](#)

3 Active - 1 Incomplete • Last refreshed a minute ago

Try new connectors for 14 days for free. [Learn more](#)

[Add connector](#)

Connectors

Transformations

Destinations

New metadata sharing
Sync metadata in all of your Fivetrans Platform connectors. [Learn more](#)

[Enable beta](#)

New Automatic PII Detection
Enable PII detection private preview on selected destinations. Only applicable to US-based PII types. [Learn more](#)

[Select destinations](#)

Search by name... All sources All destinations All statuses

Name	Source	Destination	Status	Last synced
fivetrans_metadata	Fivetrans Platform	ShopifyDestinationConnector	Active	4 minutes ago
google_sheets.orders	Google Sheets	snowflake	Active	17 minutes ago
fivetrans_metadata	Fivetrans Platform	snowflake	Active	6 hours ago
snowflake_db	Snowflake	Warehouse	Incomplete	

[Clear filters](#)

[Need help?](#)

Dashboard | Fivetrans My Store - Analytics Simple Sample Data My Store - Customers FIVETRAN_METADATA Welcome To Snowflake!

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ShopifyDestinationConnector

Overview Users External Logging Data Security Settings Connected

New Automatic PII Detection
Enable PII detection private preview on this destination. Only applicable to US-based PII types. [Learn more](#)

[Enable](#)

Connection Details

Host: tmlonry-lo41401.snowflakecomputing.com
Port: 443
Database: SHOPIFYEXTRACTION
Auth: PASSWORD
User: ABHYUDAYA764
Connection Type: Directly
Password: *****
Snowflake Cloud: AWS

[View All](#)

1 Associated Connector

[View All](#)

fivetrans_metadata Active

[Need help?](#)

Dashboard | Fivetran | My Store - Analytics | Simple Sample Data - Get Started | My Store - Customers | FIVETRAN_METADATA | Welcome To Snowflake! | +

fivetran.com/dashboard/add-connector/registry_existing?category=all%20sources

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Connectors Transformations Destinations Trial usage estimator Alerts Account Settings Resources & Support Abhyudaya

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Browse our data sources

SELECTED DESTINATION: ShopifyDestinationConnector

Shopify

New connectors get 14 days of free usage. Learn more.

Kickstart your AI and analytics era See connectors

Sort by: Popularity ▾

73 matching results

 Shopify	More info	Set up
 Shortcut	Lite	
 Short.io	Lite	NEW
 Shopware	Lite	NEW
 Chorus	Lite	
 PostHog	Lite	
 Swoogo	Lite	

Need help?

Didn't find what you're looking for? Build a Lite connector with us

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fivetran.com/dashboard/add-connector?code=e5d89e008ab798397f324e01052f5e1&hmac=d1b96ae3d048a338fa82b920fd4f0a6373d32d7e...

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Connectors Transformations Destinations Trial usage estimator Alerts Account Settings Resources & Support Abhyudaya

[Back](#)

To view our connector library, select your destination first

Search all destinations

3 destinations Sort by: Default ▾

 ShopifyDestinationConnector	Select
 snowflake	
Warehouse	Resume setup

Need help?

The screenshot shows the Fivetran interface for setting up a Shopify destination. On the left, a sidebar lists various connectors, transformations, and destinations. The main area is titled 'Shopify' and contains fields for 'Destination schema' (set to 'shopify'), 'Shop Name' (set to 'c5ae49-f3.myshopify.com'), and a note about automatic population after app installation. A 'Setup Guide' section provides instructions and prerequisites. Below the setup guide, 'Setup instructions' list five steps for connecting the Shopify account. At the bottom, there are buttons for 'Save for later' and 'Save & Test'.

0 days left in trial on the Enterprise Plan

Your estimate is ready! [Pick a plan](#)

PW_IOI

Shopify

If you need help, [invite a teammate](#) or [view the setup guide](#).

Destination

ShopifyDestinationConnector

Destination schema

shopify

Appears in your destination as **shopify** and **cannot be changed** after you test the connector or save the form for later.

Shop Name

c5ae49-f3.myshopify.com

Your shop name will automatically be populated after you install the Fivetran App from the Shopify app store.

Trial usage estimator

Re-Authorize Connection **Authentication Succeeded**

Alerts

Account Settings

Resources & Support

Abhyudaya

Setup Guide

Follow our setup guide to connect Shopify to Fivetran.

Prerequisites

To connect your Shopify account to Fivetran, you need:

- Access to a Shopify account
- A shop

IMPORTANT: Only use an HTTPS URL with TLS version 1.2 or above.

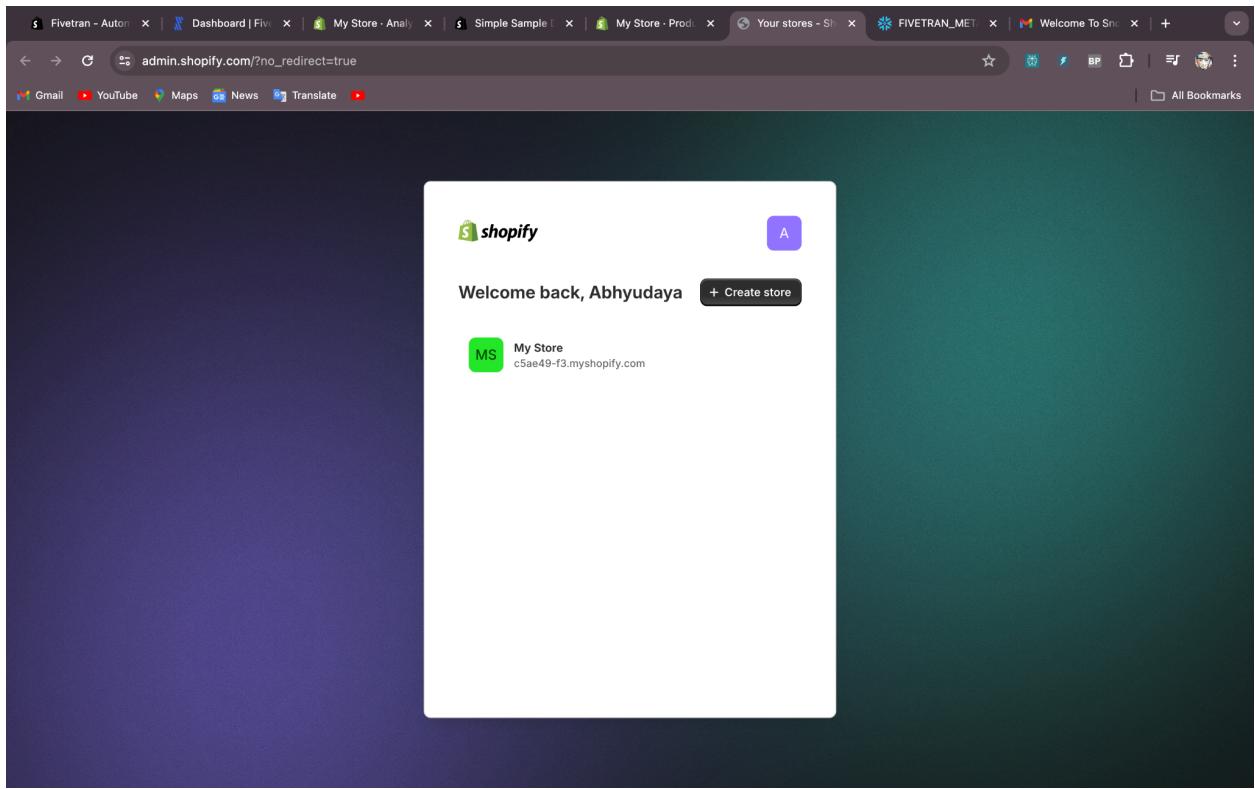
Setup instructions

- In the connector setup form, click [Click here to install the Fivetran app from the Shopify app store](#). You will be redirected to Shopify's app store.
- Add the Fivetran app from the Shopify app store. You will be redirected back to Fivetran and your **Shop Name** will be automatically populated.
- Enter your **Destination schema** name.
- Click **Authorize**. The **Authentication Succeeded** message will appear next to the **Re-Authorize Connection** button.
- Click **Save & Test**. Fivetran will take it from here and sync your data from your Shopify store.

< Back **Save for later** **Save & Test**

Step 3:-

Configuring Shopify: Dummy data creation in Shopify includes defining products, customers, and orders. This data is essential for testing the ETL process and understanding data flow.



Step 4:-

Setting Up Fivetran: After creating dummy data in Shopify, Fivetran is used to establish a connection between Shopify and Snowflake. This involves setting up connectors, defining the destination, and ensuring data flows smoothly from Shopify to Snowflake.

The screenshot shows the Fivetran dashboard interface. On the left, there's a sidebar with various links: Trial usage estimator, Alerts, Account Settings, Resources & Support, and a user profile for Abhyudaya. The main content area is titled "Shopify → ShopifyDestinationConnector" and "shopify". It has tabs for Status, Schema, Usage, Transformations, and Setup, with "Status" selected. A green button indicates "Active". A message says "First time syncing data for this connector". Below this, a section says "Initial sync in progress" with a note: "An initial sync is a connector's first-ever historical sync. Initial syncs don't count towards your paid usage. The duration of this sync will depend on how large your data set is." A link "Learn more about initial syncs" is provided. A green banner at the bottom left says "Your priority data sync is complete! The first set of data has been synced to your destination and is ready for analysis." Another banner below it says "This connector is still syncing historical data in periodic increments over time. Learn more about priority-first sync". At the bottom, there's a "Sync History" chart showing activity from 12:00 PM to 12:00 PM the next day. The chart includes sections for "Extract Process Load", "Alerts", "User Actions", and "Stats". A message in the stats section says "Nothing to show here yet." A "Need help?" button is also present.

Step 5:-

Finalizing in Snowflake: Configuring Snowflake involves setting up the database, defining schemas, and ensuring that data from Shopify via Fivetran is correctly loaded into Snowflake for analysis and further processing.

The screenshot shows the Snowflake web interface. On the left, the navigation bar includes 'Create', 'Search', 'Projects', 'Data' (selected), 'Databases' (highlighted in blue), 'Add Data', 'Data Products', and 'AI & ML'. The main area displays the database structure under 'DB03': 'INFORMATION_SCHEMA', 'PUBLIC', 'Tables', 'DEMO2' (selected), 'OUR_FIRST_DB', 'SHOPIFYEXTRACTION' (highlighted in blue), 'SNOWFLAKE', 'SNOWFLAKE_SAMPLE_DATA', 'TESTDB1', and 'TESTDB2'.

This screenshot provides a detailed view of the 'SHOPIFYEXTRACTION / SHOPIFY' schema. The left sidebar shows the schema tree with nodes like 'FIVETRAN_METADATA', 'INFORMATION_SCHEMA', 'PUBLIC', and 'Tables'. The 'Tables' node is selected. The right panel lists 24 tables with columns for NAME, TYPE, CLASSIFICATION, OWNER, ROWS, BYTES, and CREATED. The tables include: COLLECTION, COLLECTION_PRODUCT, COUNTRY, CUSTOMER, CUSTOMER_ADDRESS, CUSTOMER_SEGMENT, CUSTOMER_TAG, FULFILLMENT_ORDER, FULFILLMENT_ORDER_LINE_ITEM, INVENTORY_ITEM, INVENTORY_LEVEL, LOCATION, METAFIELD, ORDER, ORDER_LINE, ORDER_TAG, PRODUCT, PRODUCT_IMAGE, PRODUCT_OPTION, and PRODUCT_TAG. All tables are owned by 'ACCOUNTADMIN' and were created within the last day.

NAME	TYPE	CLASSIFICATION	OWNER	ROWS	BYTES	CREATED
COLLECTION	Table	—	ACCOUNTADMIN	17	70KB	1 day ago
COLLECTION_PRODUCT	Table	—	ACCOUNTADMIN	59	2.0...	1 day ago
COUNTRY	Table	—	ACCOUNTADMIN	29	3.0...	1 day ago
CUSTOMER	Table	—	ACCOUNTADMIN	10	70KB	1 day ago
CUSTOMER_ADDRESS	Table	—	ACCOUNTADMIN	10	6.5...	1 day ago
CUSTOMER_SEGMENT	Table	—	ACCOUNTADMIN	5	3.5...	1 day ago
CUSTOMER_TAG	Table	—	ACCOUNTADMIN	18	2.0...	1 day ago
FULFILLMENT_ORDER	Table	—	ACCOUNTADMIN	20	12...	1 day ago
FULFILLMENT_ORDER_LINE_I...	Table	—	ACCOUNTADMIN	41	3.0...	1 day ago
INVENTORY_ITEM	Table	—	ACCOUNTADMIN	147	5.5...	1 day ago
INVENTORY_LEVEL	Table	—	ACCOUNTADMIN	147	3.0...	1 day ago
LOCATION	Table	—	ACCOUNTADMIN	1	5.0KB	1 day ago
METAFIELD	Table	—	ACCOUNTADMIN	16	4.0...	1 day ago
ORDER	Table	—	ACCOUNTADMIN	20	44...	1 day ago
ORDER_LINE	Table	—	ACCOUNTADMIN	41	13...	1 day ago
ORDER_TAG	Table	—	ACCOUNTADMIN	—	—	—
PRODUCT	Table	—	ACCOUNTADMIN	—	—	—
PRODUCT_IMAGE	Table	—	ACCOUNTADMIN	—	—	—
PRODUCT_OPTION	Table	—	ACCOUNTADMIN	—	—	—
PRODUCT_TAG	Table	—	ACCOUNTADMIN	—	—	—

SHOPIFYEXTRACTION / SHOPIFY

Schema: ACCOUNTADMIN | 13 hours ago

Tables

NAME	TYPE	CLASSIFICA...	OWNER	RO...	BY...	CREATED
COLLECTION	Table	—	ACCOUNT...	17	7.0KB	13 hours...
COLLECTION_PRO...	Table	—	ACCOUNT...	59	2.0...	13 hours...
COUNTRY	Table	—	ACCOUNT...	29	3.0...	13 hours...
CUSTOMER	Table	—	ACCOUNT...	10	7.0KB	13 hours...
CUSTOMER_ADDRE...	Table	—	ACCOUNT...	10	6.5...	13 hours...
CUSTOMER_SEGM...	Table	—	ACCOUNT...	5	3.5...	13 hours...
CUSTOMER_TAG	Table	—	ACCOUNT...	18	2.0...	13 hours...
FULFILLMENT_ORDER	Table	—	ACCOUNT...	20	12...	13 hours...
FULFILLMENT_ORDER_LINE_I...	Table	—	ACCOUNT...	41	3.0...	13 hours...
INVENTORY_ITEM	Table	—	ACCOUNT...	147	5.5...	13 hours...
INVENTORY_LEVEL	Table	—	ACCOUNT...	147	3.0...	13 hours...
LOCATION	Table	—	ACCOUNT...	1	5.0KB	13 hours...
METAFIELD	Table	—	ACCOUNT...	16	4.0...	13 hours...
ORDER	Table	—	ACCOUNT...
ORDER_LINE	Table	—	ACCOUNT...
ORDER_TAG	Table	—	ACCOUNT...

DB03 / PUBLIC / CONSUMERCOMPLAINTS

Successfully Loaded Data

ConsumerComplaints.csv → DB03.PUBLIC.CONSUMERCOMPLAINTS

65,499 rows were successfully inserted into the table.

Query Data

Done