

Building Your Interactive Dashboard

A Step-by-Step Guide to Streamlit in Snowflake

Step 1: The Blueprint (Preparation)



Prepare Python Script

Save your Streamlit application code as a `.py` file. This script will use Snowpark to securely connect and query data directly within Snowflake.



Prepare Sample Data

Get your dataset ready as a CSV file. This data will be uploaded to Snowflake and loaded into a table for your dashboard to visualize.

Step 2: The Foundation (Snowflake Setup)

Create Stages

Set up two stages: one for your data file (``sales_data_stage``) and one for your app file (``streamlit_app_stage``).

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Create & Load Table

Define a table for your sales data, then use the ``COPY INTO`` command to load the data from your CSV in the stage.

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Create Streamlit App

Execute the ``CREATE STREAMLIT`` command, pointing to your app's stage and main Python file.

Step 3: The Assembly (File Upload)



Upload Data File

Navigate to ``sales_data_stage`` in the Snowflake UI and upload your ``sales_data.csv`` file.



Upload Application File

Go to ``streamlit_app_stage`` and upload your ``streamlit_snowflake_app.py`` file.

Step 4: The Launch (Go Live!)



Run Your Application

In the Snowflake UI, click on the `Streamlit` tab, find your newly created dashboard, and click to launch it. Your interactive dashboard is now live!

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