# Snowflake Hands-On Workshop

## Real-time Analytics with External Data

### September 10, 2019

1. Sign up for free Snowflake trial - <https://trial.snowflake.com/>

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1. Check your e-mail, and [ CLICK TO ACTIVATE ].

A screenshot of a social media post

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1. Create the admin User ID.

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1. Minimize the Welcome to Snowflake message.

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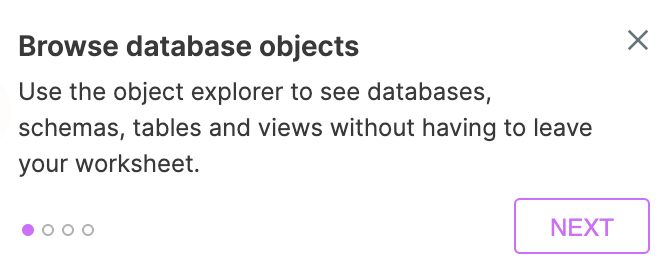
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1. Close the Getting Started side panel.

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1. Close Browse the database objects panel.



1. Change your Context to ACCOUNTADMIN.

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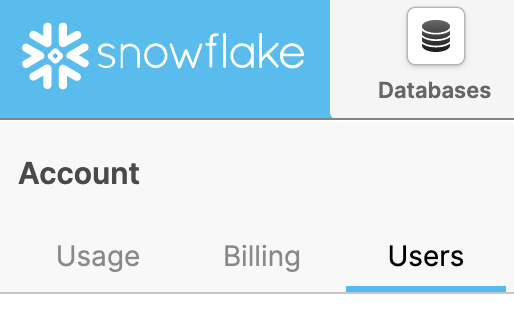
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1. Click on the Account button in the top middle of the Web UI.

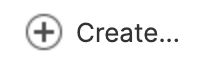
A drawing of a person

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1. Click on the Users tab.



1. Click on the Create button.



1. Fill in the required General fields to create a new user named SNOWMAN, and click on the Next button.

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1. The Advanced information is not required, but you may fill it out of you would like to. Then click on the Next button.

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1. Change the Default Role to SYSADMIN under Preferences, and click on the Next button.

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1. Open a new tab within the Worksheets for the Web UI by clicking on the +.

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1. Enter the following SQL command, click on the Run button, and verify that the statement completed successfully.

grant role accountadmin to user snowman;

1. Launch a new tab in your browser, and connect to your Trial Snowflake URL.
2. Login with the User you created above.

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1. If you did not uncheck the Force Password Change check box on the General tab, change the password for your new user, and click on the Finish button.

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1. Close / Minimize the informational messages as you did before starting in Step 4 above.
2. Click on the Databases tab.

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1. Click on the Create button, type in a name for your Database, and click on the Finish button.

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1. Click on the Worksheets button.

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1. Type in the following commands in the SQL Worksheet.

--Set up

USE ROLE ACCOUNTADMIN; --Highest level access for this URL

DROP DATABASE IF EXISTS DEMO\_WEATHERSOURCE; --Clean up

DROP SHARE IF EXISTS "WEATHER\_2016"; --Clean up

DROP MANAGED ACCOUNT IF EXISTS "OLAF"; --Clean up

USE ROLE SYSADMIN; --Change to lower privileged DBA role

CREATE OR REPLACE DATABASE FROSTY\_DB; --Create Database

CREATE OR REPLACE WAREHOUSE WINTER\_WH WITH WAREHOUSE\_SIZE = 'MEDIUM' WAREHOUSE\_TYPE = 'STANDARD'

AUTO\_SUSPEND = 600 AUTO\_RESUME = TRUE MIN\_CLUSTER\_COUNT = 1 MAX\_CLUSTER\_COUNT = 2 SCALING\_POLICY = 'STANDARD'; --Create virtual compute warehouse

1. Check the All Queries box.



1. Click on the Run button.



1. Go out to the Data Marketplace by clicking on the button shown below.

Graphical user interface, application, Teams

Description automatically generated

1. Click on the Explore the Snowflake Data Marketplace -> button.

Text

Description automatically generated

1. Search for Weather Source.

Graphical user interface, text, application, email

Description automatically generated

1. Select Weather Source - Global Weather & Climate Data for BI.
2. Click on the Get Data button.

Graphical user interface, text, application

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1. Get the data and name the Database DEMO\_WEATHERSOURCE.
2. Leave the default permissions for SYSADMIN.
3. Be sure to click the “I accept…” check box.
4. Click on the Create Database button.
5. Go back to the Browser tab where the snowman user is logged in.
6. Be sure that you are still on the Worksheets tab within the Snowflake Web UI.
7. Paste the following SQL at the end of the worksheet where you were working before.

/\* How many Deliveries will be delayed due to snowfall?

When it snows in excess of 6 inches per day, my company experiences delivery delays.

How many deliveries may have been delayed? \*/

SELECT COUNTRY,

POSTAL\_CODE,

DATE\_VALID\_STD,

TOT\_SNOWFALL\_IN

FROM DEMO\_WEATHERSOURCE.STANDARD\_TILE.HISTORY\_DAY

WHERE COUNTRY='US'

AND TOT\_SNOWFALL\_IN > 6.0

ORDER BY POSTAL\_CODE, DATE\_VALID\_STD

LIMIT 10;

1. Click on the Run button with All Queries unchecked. Your cursor will need to be placed somewhere within the code that you pasted from above.

Application

Description automatically generated with low confidence

1. Paste the following SQL at the end of the worksheet where you were working before.

-- Create a table for snowfall greater than 6 inches.

CREATE OR REPLACE TABLE FROSTY\_DB.PUBLIC.HISTORY\_DAY as

SELECT COUNTRY,

POSTAL\_CODE,

DATE\_VALID\_STD,

TOT\_SNOWFALL\_IN

FROM DEMO\_WEATHERSOURCE.STANDARD\_TILE.HISTORY\_DAY

WHERE COUNTRY='US'

AND TOT\_SNOWFALL\_IN > 6.0

ORDER BY POSTAL\_CODE, DATE\_VALID\_STD;

1. Click on the Run button with All Queries unchecked. Your cursor will need to be placed somewhere within the code that you pasted from above.

Application

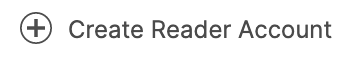
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1. Go back to the Browser tab where the admin user is logged in.
2. Click on the Reader Accounts tab.

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Description automatically generated

1. Click on the Create Reader Account button.



1. Change your Context to ACCOUNTADMIN.

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1. Fill out the Reader Account information as shown below and click on the Create Account button.

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1. Wait for the shared URL to be created. Click on the URL created in the following window (Note – all URLs are unique and will not match the example below). This step may take approximately 20 minutes for the URL to be registered.

Graphical user interface, text, application, email

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1. Log in with your newly created OLAF reader user. If you get a 403 forbidden error, you need to wait a little longer until the URL is registered.

Graphical user interface, application

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1. Once logged in, click on the I’m A Data Consumer button.

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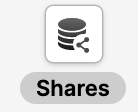
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1. Go back to the Admin user tab in your web browser, and click on the Done button.

Graphical user interface, text, application, email

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1. Click on the Shares button.

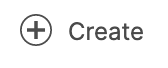


1. Click on the Outbound button.

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1. Click on the Create button.



1. Fill in the Secure Share info as shown below and click on the Create button.

Graphical user interface, text, application

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1. Click on the Next: Add Consumers button.



1. Select the Olaf reader account, and click on the Add button.

Graphical user interface, text, application

Description automatically generated

1. Click on the Done button.

Graphical user interface, text, application, email

Description automatically generated

1. Go back over to the Olaf tab in your browser.
2. Click on Warehouses button.

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1. Click on the Create Warehouse button.



1. Fill out the Warehouse information as shown below, and click on the Finish button.

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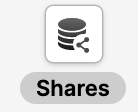
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1. Change your Context to ACCOUNTADMIN.

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1. Click on the Shares button.



1. Select SNOW and click on the Create Database from Secure Share BUTTON.

Table

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1. Fill out the share information as shown below and click on the Create Database button.

Graphical user interface, text, application

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1. Click on the OK button.

Graphical user interface, text, application, email

Description automatically generated

1. Click on the Worksheets button.

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1. Select a warehouse, database, and schema in the worksheet context drop-down.

Graphical user interface, application

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1. Click on the refresh button next to Find database objects, and your new database will appear, if it is not showing already.

Graphical user interface, application, email

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1. Click on the shared SNOW\_DB to expand the objects under the PUBLIC schema to preview the data.

Graphical user interface, text

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