

I **EXAS** Health and Human Services

Texas Department of State Health Services

SHARP Expansion for Jurisdictional COVID Data Snowflake Reference Guide

Version 1.0 As of 2/15/2022

Contents

- 1. Introduction to Snowflake & User Guide
- 2. Getting Started: First-time Login to your Snowflake Reader Account
- 3. The Basics: Snowflake Layout/Navigation
- 4. Accessing Data: Queries and Examples
 - Configure your database and schema
 - Download data



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5. Additional Resources

Introduction to Snowflake & User Guide



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How to leverage Snowflake and this User Guide

A CLOUD-BASED DATA WAREHOUSE

Snowflake is a cloud-based data warehouse used to store Texas public health data including COVID case data and COVID labs data.

³ USING YOUR SNOWFLAKE READER ACCOUNT TO PULL COVID DATA

Snowflake uses the **SQL programming language to run queries**. You can run a query for all COVID data or narrow down the query (e.g., positive COVID cases during April 2021).

HOW YOU'LL ACCESS COVID DATA

You have been granted a **Snowflake reader account*** which will enable you to view and query COVID case and COVID labs data for your region or jurisdiction.

THIS USER GUIDE

This document shows you **how to log into** your Snowflake reader account for the first time, **set up your workspace**, and **run queries**. Check out the **'Additional Resources' section** for sample queries and a glossary of terms.

Getting Started: How to login for the first time to your Snowflake Reader Account



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Step 1A: Navigate to Snowflake

Pro tip! Use the latest version of Microsoft Edge for the best experience.

Navigate to the **Snowflake URL listed in the welcome email from HHS staff** by either clicking on the link or copying and pasting the URL into an internet browser. (Click <u>here</u> for a list of support internet browsers)



Step 1B: Sign Into Snowflake

Once the Snowflake page has loaded, enter your **Username** and the **temporary password** you received in the Welcome Email from HHS staff. 봟

Sign in to Snowflake

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assword		
	Sign in	
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Step 1C: Sign Into Snowflake



Step 1D: Change your password

Create a new password for your Snowflake account. The new password must be 8 characters long and contain a number, uppercase and lowercase letters.

Click *Submit* to update your password.

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Password expired

Your password for janedoe@dshs.texas.gov has expired

Your password mus number, uppercase,	t be at least 8 characters long and contain a and lowercase letters.
Confirm passwor	d

Note! Creating a new password is a one-time step when you log in for the first time.

Step 1E: First Time Log In



The Basics: Snowflake Layout & Navigation



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Step 2A: First Time Log In Account Prompt



Step 2B: First Time Log In Navigation Tour



Step 2C: Snowflake Reader Account Navigation

A Snowflake **database** is a collection of data stored in Snowflake.



Step 2D: Snowflake Reader Account Navigation

A schema represents how data is stored in a database.



Step 2E: Snowflake Reader Account Navigation

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Views

Views

Q ? 8 ш Databases Warehouses Worksheets History New Worksheet + • C ((Find database objects RLE_COVID_DAT ... WH COV Browse database objects Use the object explorer to see databases, COVID_DATA_REGION1 schemas, tables and views without having to leave COVID_DATA your worksheet. No Tables in this Schema NEXT NEDSS_COVID_CASE_DATA NEDSS_COVID_LABS_DATA K INFORMATION SCHEMA No Tables in this Schema Here you can see the two views you have access to: NEDSS_COVID_CASE_DATA & NEDSS_COVID_LABS_DATA The **NEDSS_COVID_CASE_DATA** view contains all the Results COVID case information for your jurisdiction or region. The **NEDSS_COVID_LABS_DATA** view contains all the lab information for your jurisdiction or region.

A view is a virtual table

that contains data from one or more Snowflake

tables.

Step 2F: Snowflake Reader Account Navigation



*Additional detail on INFORMATION SCHEMA

Step 2G: Viewing Data

New Worksheet	+ •			
Find database objects Starting with COVID_DATA_REGION1 COVID_DATA No Tables in this Schema Views R NEDSS_COVID_CASE_DATA R NEDSS_COVID_LABS_DATA No Tables in this Schema No Tables in this Schema	C ** P Rm	All Queries Saved 2 minutes ago		This pop up describes the data preview feature of Snowflake. Follow the next few steps in this guide to preview your data.
 Views 	Results COV	ID. Preview your data Sample data from tables and views by selecting them from the object explorer.	×	

Step 2H: Viewing Data



Step 2I: Viewing Data



Step 2J: Viewing Data



Overview: Snowflake User Interface

Once you have logged into the Snowflake Reader Account user interface^{*}, using the top ribbon you can navigate through databases, worksheets, history, and additional Snowflake objects. However, conventional users will spend most of their time on the worksheet screen, where you can write queries and analyze data.

					Snowflake Ribbon
Tables and Views	Worksheet - Lets Learn SQL! (1/ ×)	+	us-east-1-gov.aws wflakecomputing.com/console#/internal/worksheet	- ♂ × 130% ☆ ♡ Ξ	 The Snowflake Ribbon consists of tabs for Databases Shares
This list displays the database, schema, tables, and views on the eft-hand side of the screen. All tables and views follow a naming convention that enables users to understand the scope of the data	Databases Databases V Lets Learn SQL! Find database objects Starting with III T.HPR.HPRC_LB_AGI III T.HPR.HPRC_LB_CNI III T.HPR.HPRC_LB_CNI III T.HPR.HPRC_LB_CNI III T.HPR.HPRC_LB_DENI III T.HPR.HPRC_LB_DENI III T.HPR.HPRC_LB_DENI	Shares Wareho Shares Wareho + • UNG_DISBLTY UNG_DSBLTY UROPRACTIC TY_METRO_RO NTISTS_ALL NTISTS_CENER	Jases Worksheets History History Nutrian All Queries Saved 23 minutes ago SELECT LIC_NUM SELECT LIC_NUM FROM "SHARP_CHS_DEV_DB"."CHS_HPR_HPRC_DATA"."T_HPR_HPRC_LB_OPTOMETRIC"	Partner Connect Help Snowsight Datton_Warker RLE_SHARP_CHS_VITAL_DEVELOPER_GRP → ↓ III • WH_SHARP_CHS (XS) ■ SHARP_CHS_DEV * CHS_HPR_HPRC_D ▼	 Warehouses, Worksheets, and History. Queries are written in the Worksheets tab.
rom the title.	T_HPR_HPRC_LB_DEN	NTISTS_HYGIE HS_COMUNTY	Results Data Preview	- Open History	SQL Editor
		HS_LIC_BACCL HS_LIC_CLNCL HS_LIC_MASTE	<u>Query ID</u> <u>SQL</u> 701ms 4,946 rows Filter result Row LIC,NUM	Columns 🔻 ピ	 Write queries in order to answer questions and retrieve your data.
	7,180 rows 821.0 KB Cluster by	Â	1 2666 2 2583		• Queries are written in SQL Syntax.
	Columns LIC_NUM SSN LAST_NAME FIRST_NAME MIDDLE_NAME SCHOOL_NAME	Data Type VARCHAR(30) VARCHAR(20) VARCHAR(100) VARCHAR(100) VARCHAR(100) VARCHAR(200)	 2593 2758 2676 2775 2801 	へ 見 d) 国 127AM 口	 Query results will appear in the lower panel. This panel can be used to preview tables or bring up results from the query expressed above.

Accessing Data: Queries and Examples



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Pro tip! Make sure the

browser window is maximized to see the full database and schema ribbon!

Step 3A: Configure Database and Schema

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Step 3B: Configure Database and Schema



Step 3C: Configure Database and Schema



Step 3D: Configure Database and Schema

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Step 3E: Configure Database and Schema



Step 3F: Configure Database and Schema

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Step 3G: Configure Database and Schema



Step 3H: View all data with a Snowflake Query

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Step 3I: View all data with a Snowflake Query

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Step 3J: View all data with a Snowflake Query

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		3 CAS487661	2021-09-16	33	Interviewed	Contact Est		36	2021	Р	
		4 CAS487662	2021-09-16	25		In Progress		36	2021	С	
		5 CAS487662	2021-09-16	21		No Contact/		31	2021	С	

Step 3K: View all data with a Snowflake Query

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Step 3L: View all data with a Snowflake Query



Results Pane

Step 3M: View all data with a Snowflake Query



Step 3N: View all data with a Snowflake Query

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民 FUNCTIONS		6	CAS487058786TX01	2021-08-31	58	NULL	Interviewed	Contact Est	NULL	NULL	44
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Step 3O: Export Data from a Snowflake Query

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Step 3P: Export Data from a Snowflake Query

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< v New Worksheet +	•					runnin	g a more s	selecti	ive quer	v. See t	he Add	itional	Resourd	, ces
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民 PIPES	~ .	10	0×04070E0	1011-00-11	10 KH H I	test our close of	Contant Pat	6.00.00.0	N. 11 10 1	=0	2000	n	No 412 - 412 - 11	N. 12 C

Step 3Q: Export Data from a Snowflake Query

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Row Row Cancel Export	

If you see this pop-up, your results are within the Snowflake export limits and you can download your data. Enter what you would like to name the exported data file in the *File Name* text box. Select either TSV or CSV for File Format. (It is recommended to chose the CSV File Format.) Click *Export.*

Columns * *

Step 3R: Export Data from a Snowflake Query

DATA" :

After you click Export, your file will start to download. If you are presented with this popup, please select *Save File* to start the download. Once the file is downloaded, you can view the data with Excel, or your preferred analytical tool.

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Additional Resources



Texas Department of State Health Services

Glossary of Terms



Structured Query Language (SQL) - programming language used to run queries in Snowflake.



Snowflake Database - is a collection of data stored in Snowflake.



Snowflake Schema - represents how data is stored in a database. Users have access to the *COVID_DATA* schema which has all the data that a user can access with their Snowflake Reader account.



Snowflake Table - where data is stored in Snowflake. For data security users will not have access to any Snowflake tables at this time.



Snowflake View - is a virtual table that contains data from one or more Snowflake tables. Users have access to the NEDSS_COVID_CASE_DATA view which contains all the COVID case information for their jurisdiction or region and the NEDSS_COVID_LABS_DATA view which contains all the lab information for their their jurisdiction or region.

Additional SQL Queries to Try in Snowflake

--Queries for NEDSS COVID CASE DATA

SELECT * FROM NEDSS_COVID_CASE_DATA; -- Returns all data from NEDSS_COVID_CASE_DATA

SELECT COUNT(*) FROM NEDSS_COVID_CASE_DATA; -- Returns total number of records from NEDSS_COVID_CASE_DATA

SELECT DISTINCT JURISDICTION_NM **FROM** NEDSS_COVID_CASE_DATA; -- Returns all the jurisdiction/region names available in NEDSS_COVID_CASE_DATA without any duplicate names appearing in the list.

SELECT * FROM NEDSS_COVID_CASE_DATA WHERE CASE_STATUS='C'; -- Returns all records with confirmed cases status

SELECT * FROM NEDSS_COVID_CASE_DATA WHERE CASE_RPT_MMWR_YR='2021'; -- Returns all records where the case was reported in the year 2021

SELECT * FROM NEDSS_COVID_CASE_DATA WHERE INV_START_DT>='2021-01-01'; -- Returns all records where the case investigation start date was on or past 2021-01-01



Anything written after two dashes () in SQL will appear in green and will not execute when the code is run! This allows you to add comments to your SQL code in Snowflake.

Additional SQL Queries to Try in Snowflake

----Queries for NEDSS COVID LABS DATA

SELECT * FROM NEDSS_COVID_LABS_DATA; -- Returns all data from NEDSS_COVID_LABS_DATA

SELECT COUNT(*) FROM NEDSS_COVID_LABS_DATA; -- Returns total number of records from NEDSS_COVID_LABS_DATA

SELECT DISTINCT JURISDICTION_NM **FROM** NEDSS_COVID_LABS_DATA; -- Returns all the jurisdiction/region names available in NEDSS_COVID_LABS_DATA without any duplicate names appearing in the list.

SELECT * FROM NEDSS_COVID_LABS_DATA WHERE RESULT_CATEGORY='Positive'; -- Returns all records where the category of the test result was "Positive"

SELECT * FROM NEDSS_COVID_LABS_DATA WHERE RESULT_TEST_TYPE='PCR'; -- Returns all records where the type of test was "PCR"

SELECT * FROM NEDSS_COVID_LABS_DATA WHERE LAB_UPDATE_DT>='2021-03-11 22:27:52.220'; -- Returns all records where the last updated date of the lab was on or past "2021-03-11 22:27:52.220"

SELECT DISTINCT PERFORM_FACILITY_NAME **FROM** NEDSS_COVID_LABS_DATA; -- Returns all the testing facility names available in NEDSS_COVID_LABS_DATA without any duplicate names appearing in the list. 45

Helpful Links

- Snowflake Getting Started
- Additional SQL Syntax