BILH DataHub (Snowflake) User Guide

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Enterprise Data Analytics team has recently introduced Snowflake as an enterprise data warehousing solution. It is hosted on BILH AWS tenant. Below guide will help with gaining access to DataHub.

1. Process to Request DataHub (BIH Snowflake) Access: STOP and PROCEED to Step 2 if you already have an access.

Access to Datahub is two-step process

Step1. Adding user to Snowflake AD group

Step2. Provision of user access with specific role, datasets, business justification etc. on Snowflake.

Service Now request raised to gain "Access to Datahub" will accomplish both steps. Please access the link below to raise the request.

Data & Report Access Request

Once the access provisioning is complete, the user can access the DataHub.

2. How to connect to DataHub (BILH Snowflake)

There are multiple methods to connect to DataHub. They are:

- 1. Snowsight (This is Snowflake recommended browser-based access method)
- 2. SnowSQL (This is snowflake provided command line interface CLI)
- 3. VSCode (Visual Studio Code Integrated Development Environment IDE)
- 4. DBeaver (Popular 3rd party SQL desktop client)

Irrespective of method used, you can only access DataHub through BIDMC VPN. (If you do not have BIDMC VPN access, please raise additional support request to gain that access first).

- 2.1 Snowsight: The Snowflake Web Interface
 - 2.1.1 Access the URL: <u>https://vzicosu-bilh.privatelink.snowflakecomputing.com</u> in your browser and you will see the options like shared in screenshot below. Click on "BILH" button.

** Snowflake	
Select an account to sign into	
BILH	-
Sign into a different account	
Sign up	

2.1.2 Select "Sign in using AzureAD SSO" in next page, and go through Office 365 login instructions using your account

	*
	Sign in to Snowflake
	Sign in using AzureAD SSO
Username	
Password	
	Sign in

2.1.3 After successful login, you will see landing page similar to screenshot below. It is called Snowsight, which is the snowflake web interface. More details on various components of Snowsight is available in Snowflake documentation https://docs.snowflake.com/en/userguide/ui-snowsight-gs

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2.1.4 From your upper right side of the screen, you can click on + sign and select SQL Worksheet to create new SQL Worksheet to run queries.

Q Searc	h +
	SQL Worksheet
	Python Worksheet
	Folder

2.1.5 Set your worksheet context using Role, Data Warehouse and Database/Schema name. Screenshot below shows where those components are located. In this example, we have selected FR_DEV_EDW_ANALYST role giving us read access to DEV database objects and tables.

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Pinned (0)	DEV_EOW_REPOSITORY_PUBLIC * Settings *	Role Warehouse Latest Version + Q
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2.2 SnowSQL

SnowSQL is Command Line Interface (CLI) to access snowflake.

2.2.1 Download SnowSQL using the URL <u>https://developers.snowflake.com/snowsql/</u> and Install SnowSQL. For this documentation, we have used "SnowSQL For Windows"

Download the latest version for your OS



2.2.2 Check the snowsql installation by typing *snowsql* in the command prompt.

Microsoft Windows [Version 10.0.1 (c) Microsoft Corporation. All ri	9044.3086] ghts reserved.
H:\>snowsql Usage: snowsql [OPTIONS]	
Options:	
-a,accountname TEXT	Name assigned to your Snowflake account. If you are not on us-west-2 or AWS deployement, append the region and platform to the end, e.g., <account>.<region> or <account>.<region>.<platform>Honors \$SNOWSQL_ACCOUNT.</platform></region></account></region></account>
-u,username TEXT	Username to connect to Snowflake. Honors \$SNOWSQL_USER.
-d,dbname TEXT -s,schemaname TEXT	Database to use. Honors \$SNOWSQL_DATABASE. Schema in the database to use. Honors \$SNOWSQL_SCHEMA.
-r,rolename TEXT -w,warehouse TEXT -h,host TEXT	Role name to use. Honors \$SNOWSQL_ROLE. Warehouse to use. Honors \$SNOWSQL_WAREHOUSE. Host address for the connection. Honors \$SNOWSQL_HOST.

2.2.3 Use the command below to try authenticating snowflake using Single Sign On (SSO)

snowsql –a vzicosu-bilh –u {Your email} --authenticator externalbrowser

-a holds account info

-u login in info. Typically your Office 365 email address

-- authenticator provides means of authentication. In Azure SSO, it has to be done using externalbrowser

After entering, it will open the browser with login info.



statements or !help @lahey.org#(no warehouse)@(no database).(no schema)>

2.2.4 You can use commands below to select database and warehouse to use-

Use {Database Name}; -- To set the database context

Use warehouse {Warehouse Name}; -- To set the warehouse context

Type SQL statements or lhelp @lahey.org#(no warehouse)@(no database).(no schema)>use DEV_EDW_MANAGEMENT ; status Statement executed successfully. TROW(s) produced. Time Elapsed: 1.983s @lahey.org#(no warehouse)@DEV_EDW_MANAGEMENT.PUBLIC>use WAREHOUSE COMPUTE_WH_ DEV_EDW_ANALYST_WH DEV_EDW_LOADER_WH PROD_EDW_MANALYST_WH PROD_EDW_MANALYST_WH PROD_EDW_MANALYST_WH TEST_EOW_ANALYST_WH TEST_EOW_ANALYST_WH TEST_EOW_ANALYST_WH TEST_EOW_LOADER_WH TEST_EOW_LOADER_WH TEST_EOW_LOADER_WH TEST_EOW_LOADER_WH TEST_EOW_LOADER_WH TEST_EOW_LOADER_WH TEST_EOW_LOADER_WH TEST_EOW_LOADER_WH TEST_EOW_LOADER_WH TEST_EOW_LOADER_WH TEST_EOW_LOADER_WH TUNDRA_EDW_ADMIN_WH	* SnowSQL * v1.2.28	
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After setting up your context, you can write your SQL commands to run query -

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2.3 Visual Studio Code

Visual Studio Code is very popular Integrated Development Environment (IDE) which can be used to connect to Snowflake BILH Datahub to run queries and analysis.

2.3.1 Install Visual Code using the URL <u>https://code.visualstudio.com/download</u>. For the context of this documentation, we are using Windows.

Download Visual Studio Code Free and built on open source. Integrated Git, debugging and extensions.



2.3.2 After Visual Studio Code Installation, Install Snowflake and Azure Account Extensions. Make sure those are verified extensions denoted by



2.3.3 Login to Azure using your Office 365 account by typing >Azure: Sign In and following Instructions



2.3.4 Click on Snowflake tab to connect to Snowflake account.



Add your username (typically BILH Office 365 email) and click on "Sign in with Single Sign On". This will open up in browser to authenticate your account. After successful authentication, come back to visual studio code and set your context by selecting role, database, schema, and warehouse.



You can see Object Explorer with details of databases that are available for the role that you selected. You can browse objects like schema, tables, views etc. from there.

2.3.5 Go to File > New File and select "Snowflake SQL File" to open a query window and start writing your SQL.

	$\leftarrow \rightarrow$ L \rightarrow BILH lundra	
* 0	iet the count of tables Untitled-1 •	
	Get-the-count-of-tables Execute	
	SELECT t.table_schema: `.'.' `.t.table_name as "table_name",t.row_count FROM information_schema.tables.t WHERE t.table_type = 'BASE TABLE' ORDER BY 1, t.row_count;	
PROBL	EMS OUTPUT DEBUG CONSOLE TERMINAL PORTS <u>SNOWFLAKE: QUERY RESULTS</u> SNOWFLAKE	
	table_name	ROW_COUNT
	AUDIT.CLARITY_COLUMINS_METADATA	293
	AUDIT.CLARITY_TABLES_METADATA	
	AUDIT.DQ_AUDIT_LOG	
	AUDIT.DQ_ITERATOR_LOG	
	AUDIT.LOADSQLSERVERTOS3_ITERATOR_LOG	
	AUDIT.PREJOINED_VIEWS_METADATA	997
	AUDIT.TRIGGER_LOG	

2.4 Dbeaver SQL Client

Dbeaver is popular SQL Client tool that can connect to various databases that are available in the market. You can use the tool to have the connection established to Snowflake to write your queries.

- 2.4.1 Download "DBeaver Community Edition" from URL <u>https://dbeaver.io/</u> and install it in your machine.
- 2.4.2 After installation, select your database options using 👫 icon. In the all section, you should see Snowflake as an option. Select and Click Next



2.4.3 In the Connection Settings, Click the Driver Setting add "Authenticator: externalbrowser" in the URL Template.

Connection se	* Edit Driver 'S	nowflake'	onfiguration	- 0	× flol
Snowflake con	Settings Librar	ies Driver properties Adva	nced parameters Lice	ense	
✓ Connection s	Driver Name:	Snowflake	Driver Type: 🕴	🇱 Snowflake	 Infigurations
Initializatic Shell Com	Class Name:	net.snowflake.client.jdbc.	SnowflakeDriver		
Client ider	URL Template:	jdbc:snowflake://{host}[:p	ort]/? <mark>Authenticator:</mark> e	externalbrowser	443
Transactio	Default Port:	443	Default Database:		
Metadata	Default User:]		
Errors and tim > Data Editor > SQL Editor	Embedded Allow Empt Description	~			
	ID:	snowflake_jdbc			
	Description:	Snowflake JDBC driver			
	Website:	https://docs.snowflake.net/			
	0	Reset to De You can use variables in cor	faults OK	Cancel	~
	Driv	ername: Snowflake		Driver Setti	ngs Driver license

2.4.4 Go to Libraries tab, select the driver and click on Download/Update to get the latest Snowflake jdbc driver available and download. Drivers 3.13.6 and up should work.

🙆 Connection	"DEV EDW E	FROSITORY Dev Analyst Ro	le" configuration			— V					
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Connection se Snowflake con	Settings	ibraries Driver properties	Advanced narameters	Licens	- L	Download driver fi	iles				
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2.4.5 Fill in the info as shown below with your login and click OK. It will open browser to authenticate. After successful authentication, close the tab and return to DBeaver.

Connection settings Snowflake connection settings Initialization Shell Commands Client identification Transactions General Metadata Errors and timeouts > Data Editor > SQL Editor O Click on Test Connection (Database native) Username: Password: Role: fr_dev_edw_admin	Connection "DEV_EDW_	- 🗆 X
 Connection settings Initialization Shell Commands Client identification Transactions General Metadata Errors and timeouts Data Editor SQL Editor Main Snowflake Driver properties SSH + Network configuration Connection Host: vzicosu-bilh.privatelink.snowflakecomputing.com Port: 443 Database: DEV_EDW_REPOSITORY Warehouse: COMPUTE_WH Schema: PUBLIC Click on Test Connection to load warehouse/schema list from the server Authentication (Database native) Username: Dlahey.org Password: Save password Role: fr_dev_edw_admin v 	Connection settings Snowflake connection sett	snowflake
Authenticator: externalbrowser ① You can use variables in connection parameters. Driver name: Snowflake Driver Settings Driver licer	 Connection settings Initialization Shell Commands Client identification Transactions General Metadata Errors and timeouts Data Editor SQL Editor 	Network configurations Imputing.com Port: 443 Imputing.com Port: 443 Imputing.com Port: 443 Imputing.com Port: 443 Imputing.com Port: 443 Imputing.com Port: 443 Imputing.com Port: 443 Imputing.com Port: 443 Imputing.com Port: 443 Imputing.com Port: 443 Imputing.com Port: 443 Imputing.com Port: 443 Imputing.com Port: 443 Imputing.com Port: 443 Imputing.com Port: 443 Imputing.com Port: 443 Imputing.com Port: 443 Imputing.com Port: 443 Imputing.com Port: 443 Imputing.com Imput

2.4.6 Database Navigator Pane will show green check mark after successful authentication. You can explore database objects in there. You can click on "New SQL script" and start writing SQL statements and queries. Example below



References:

Snowsight Detail Guide: https://docs.snowflake.com/en/user-guide/ui-snowsight-gs

SnowSQL Detail Guide: <u>https://docs.snowflake.com/en/user-guide/snowsql</u>

Search Snowflake documentation about SQL syntaxes or anything related Snowflake: <u>https://docs.snowflake.com/</u>