Target:

1. Using the Snowflake WebUI, create a warehouse.
2. Given a worksheet, use the context menu to set the warehouse context of that worksheet so that it uses a specified warehouse for processing.
3. Use a SQL script to set the warehouse listed in the context menu of a worksheet.
4. Turn on the Code Highlight feature and use it in conjunction with the All Queries check box to run single statements or entire worksheets of statements as needed.

Find database objects   ↻ «

Starting with...

⊞ CATALOG_SALES
⊞ CUSTOMER
⊞ **CUSTOMER_ADDRESS**
⊞ CUSTOMER_DEMOGRAPHICS
⊞ DATE_DIM
⊞ DBGEN_VERSION
⊞ HOUSEHOLD_DEMOGRAPHICS
⊞ INCOME_BAND

⊞ CUSTOMER_ADDR...   [Preview Data] ✕

50,000,000 rows 912.3 MB

Cluster by

LINEAR(CA_ADDRESS_SK)

Columns	Data Type
CA_ADDRESS_SK	NUMBER(38,0)
CA_ADDRESS_ID	VARCHAR(16)
CA_STREET_NUMBER	VARCHAR(10)

✔ **customer_address_XL**   ✔ customer_address_XS   + ▾

↻ «   ▶ Run   ☐ All Queries | Saved 13 seconds ago

```
1  select CA_STREET_NAME, CA_CITY, CA_STATE from "SNOWFLAKE_SAMPLE_DATA"."TPCDS_SF100TCL"."CUSTOMER_ADDRESS";
```

Results   Data Preview

✔ Query ID   SQL   338ms ▬▬▬   50,000,000 rows (3,841,129 shown)

Filter result...   ⤓   Copy

Row	CA_STREET_NAME	CA_CITY	CA_STATE
1	Main Pine	Riverdale	NC
2	Jefferson Meadow	Lakeview	TX
3	Ninth Willow	Brownsville	SD
4	Woodland West	Riverdale	IL
5	Main Spring	Sunnyside	UT
6	Jackson	Edgewood	KS
7	Oak View	Pine Grove	CO

▶ Run ☐ All Queries | Saved 2 seconds ago

```
1  select CA_STREET_NAME, CA_CITY, CA_STATE from "SNOWFLAKE_SAMPLE_DATA"."TPCDS_SF100TCL"."CUSTOMER_ADDRESS";
```

Results Data Preview

✔ Query ID SQL 570ms ▬▬▬ 50,000,000 rows (3,841,129 shown)
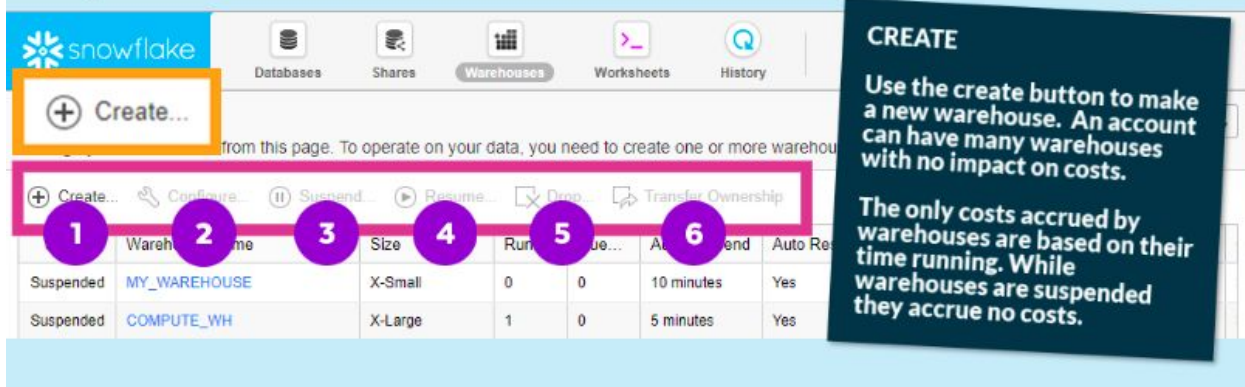
Filter result... ⬇ Copy

Row	CA_STREET_NAME	CA_CITY	CA_STATE
1	Main Pine	Riverdale	NC
2	Jefferson Meadow	Lakeview	TX
3	Ninth Willow	Brownsville	SD
4	Woodland West	Riverdale	IL
5	Main Spring	Sunnyside	UT
6	Jackson	Edgewood	KS
7	Oak View	Pine Grove	CO

Warehouses > **COMPUTE_WH** Last refreshed **3:23:27 PM**
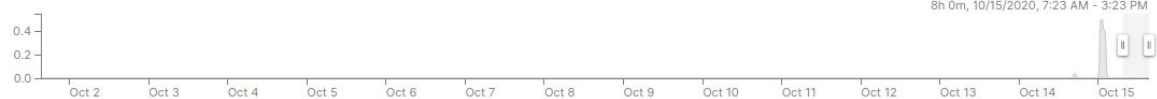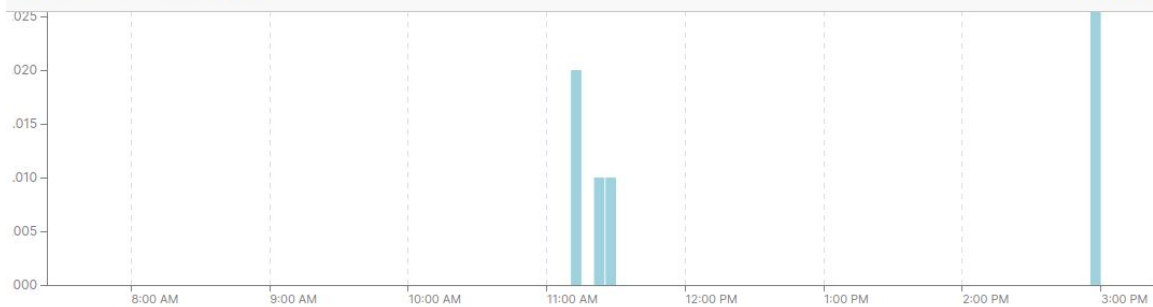
8h 0m, 10/15/2020, 7:23 AM - 3:23 PM

Notice the functions available for warehouses along the highlighted menu area. Click the numbered dots to explore each of the functions in depth.
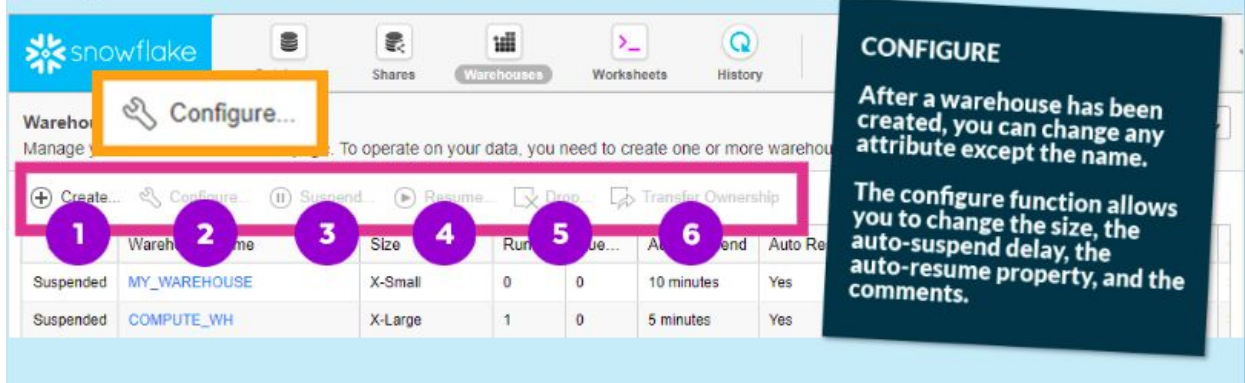

CREATE

Use the create button to make a new warehouse. An account can have many warehouses with no impact on costs.

The only costs accrued by warehouses are based on their time running. While warehouses are suspended they accrue no costs.

Notice the functions available for warehouses along the highlighted menu area. Click the numbered dots to explore each of the functions in depth.

CONFIGURE

After a warehouse has been created, you can change any attribute except the name.

The configure function allows you to change the size, the auto-suspend delay, the auto-resume property, and the comments.

Notice the functions available for warehouses along the highlighted menu area. Click the numbered dots to explore each of the functions in depth.

SUSPEND

The suspend function allows you to shut down a warehouse immediately. You may want to do this in order to save on costs.

You will probably want to set your warehouse to auto-suspend and only use the manual suspend in special cases.

Notice the functions available for warehouses along the highlighted menu area. Click the numbered dots to explore each of the functions in depth.

snowflake | Databases | Shares | | Worksheets | History

▶ Resume...

Warehouses
Manage your warehouses from this pag... ...u need to create one or more warehou...

⊕ Create... | 🔧 Configure... | (II) Suspend... | ▶ Resume... | ✕ Drop... | ↪ Transfer Ownership

① ② ③ ④ ⑤ ⑥

	Wareh... me	Size	Run... ue...	A... end	Auto Res
Suspended	MY_WAREHOUSE	X-Small	0	0	10 minutes	Yes
Suspended	COMPUTE_WH	X-Large	1	0	5 minutes	Yes

RESUME

Resume will start a suspended warehouse. If the warehouse is configured to auto-resume, you will not be required to use this link, though you can.

You can also resume a warehouse manually from within the context drop menu in the worksheets area.

Notice the functions available for warehouses along the highlighted menu area. Click the numbered dots to explore each of the functions in depth.
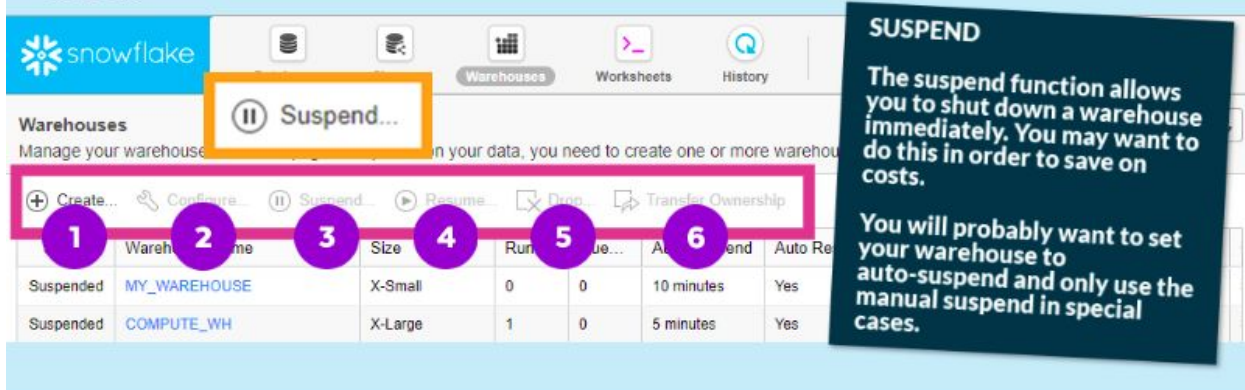

snowflake | Databases | Shares | | | History

✕ Drop...

Warehouses
Manage your warehouses from this page. To operate on you... ...e one or more warehou...

⊕ Create... | 🔧 Configure... | (II) Suspend... | ▶ Resume... | ✕ Drop... | ↪ Transfer Ownership

① ② ③ ④ ⑤ ⑥

	Wareh... me	Size	Run... ue...	A... end	Auto Res
Suspended	MY_WAREHOUSE	X-Small	0	0	10 minutes	Yes
Suspended	COMPUTE_WH	X-Large	1	0	5 minutes	Yes

DROP

Dropping a warehouse is the same thing as deleting it.

Dropped warehouses cannot be recovered. Dropping a warehouse while a query is running will end all work on the query in progress.

Notice the functions available for warehouses along the highlighted menu area. Click the numbered dots to explore each of the functions in depth.

snowflake | Databases | Shares | Wareho... | |

↪ Transfer Ownership

Warehouses
Manage your warehouses from this page. To operate on your data... ...hou...

⊕ Create... | 🔧 Configure... | (II) Suspend... | ▶ Resume... | ✕ Drop... | ↪ Transfer Ownership

① ② ③ ④ ⑤ ⑥

	Wareh... me	Size	Run... ue...	A... end	Auto Re
Suspended	MY_WAREHOUSE	X-Small	0	0	10 minutes	Yes
Suspended	COMPUTE_WH	X-Large	1	0	5 minutes	Yes

TRANSFER OWNERSHIP

Warehouses are owned by roles, not individual users.

For example, this option could be used to transfer a warehouse owned by the SYSADMIN role to new ownership by the ACCOUNT ADMIN role.

The configuration of a warehouse can be changed at any time.

The warehouse name is the only attribute that cannot be changed after the initial creation.

Exercise

Standard Edition

Essentials Lab 4
Exercise 5

1) To set a worksheet's context using code, type the **USE WAREHOUSE** statements (shown) into the **SQL Pane**.

2) Click the [...] button to the right of the [Context] menu.

3) Select [Turn on Code Highlight].

4) Click any text in the **SQL Pane**.

The background of the statement you click turns blue, while others do not.

5) Click [Run] to run the currently highlighted SQL statement.

▶ Run   ☐ All Queries | Saved 48 seconds ago

👥 SYSADMIN ▦ ○MY_WAREHOUSE (XL) 🗄 Select Database 🔗 Select

```
1  USE WAREHOUSE COMPUTE_WH;
2  USE WAREHOUSE MY_WAREHOUSE;
3
4
5  select CA_STREET_NAME, CA_CITY, CA_STATE from "SNOWFLAKE_SAMPLE_DATA"."TPCDS_SF100TCL"."CUSTOMER_ADDRESS";
```

Results Data Preview

✔ Query ID SQL   56ms ▬▬▬ 1 rows

Filter result...   ⬇ Copy

Row	status
1	Statement executed successfully.

✕

Role   SYSADMIN   Change

Warehouse | MY_WAREHOUSE (XS) Suspended | ▾ |

COMPUTE_WH (XL)   On

MY_WAREHOUSE (XS)   Suspended

Database

Schema   PUBLIC   ▾

---

tomer_address_XL   ✔ customer_address_XS   + ▾

▶ Run (3)   ☑ All Queries | Saved 1 minute ago

👥 SYSADMIN ▦ ○MY_WAREHOUSE (XL) 🗄 Select Database

```
1  USE WAREHOUSE COMPUTE_WH;
2  USE WAREHOUSE MY_WAREHOUSE;
3
4
5  select CA_STREET_NAME, CA_CITY, CA_STATE from "SNOWFLAKE_SAMPLE_DATA"."TPCDS_SF100TCL"."CUSTOMER_ADDRESS";
```

Context: 👥 ACCOUNTADMIN ▦ ○MY_WAREHOUSE (XS) 🗄 UNI_STUFF 🔗 PUBLIC ▾

✕

Role   ACCOUNTADMIN   Change

Warehouse | MY_WAREHOUSE (XS) Suspended | ▾ |

SMALL_WH (S)   On

COMPUTE_WH (L)   Suspended

MY_WAREHOUSE (XS)   Suspended

Database

PC_FIVETRAN_WH (3XL)   Suspended

Schema

What information appears in parentheses after the warehouse name?

Size of the warehouse is whether its small, extra-small or large is displayed
What information appears on the right side of the drop list?

Which warehouse is active is shown on the right side.(activity status)

Created On ▼	Resumed On ▼	Owner
3:02:21 PM	3:23:23 PM	SYSADMIN
10/14/2020, 4:40:4...	4:19:34 PM	SYSADMIN

Configure Warehouse

Name MY_WAREHOUSE

Size X-Small (1 credit / hour) ⌄

Learn more about virtual warehouse sizes here

Auto Suspend 1 hour ⌄

The maximum idle time before the warehouse will be automatically suspended.

☐ Auto Resume ?

Comment [   ]

Show SQL   Cancel   Finish