

Essentials Lab 4

Exercise 1

1) Click **[Warehouses]** in the **Navigation Ribbon**.

2) Look for two columns that denote multi-cluster warehousing options.

If you have the **[Clusters]** and **[Scaling Policy]** columns, your Snowflake account is Multi-Cluster.

Is your current account Standard Edition? Or Enterprise?

Enterprise Edition: Multi-Cluster

The screenshot shows the Snowflake Web UI with the navigation ribbon at the top. The 'Warehouses' tab is selected. Below it, the 'Warehouses' section title is displayed. A descriptive text states: 'Manage your warehouses from this page. To operate on your data, you need to create one or more warehouses.' Below this is a table with columns: Status, Warehouse Name, Size, Clusters, Scaling Policy, Run..., and Que... . A purple box highlights the 'Clusters' and 'Scaling Policy' columns. The table data is as follows:

Status	Warehouse Name	Size	Clusters	Scaling Policy	Run...	Que...
Suspended	COMPUTE_WH	X-Large	min: 1, max: 1	Standard	0	0

Standard Edition: Single Cluster

The screenshot shows the Snowflake Web UI with the navigation ribbon at the top. The 'Warehouses' tab is selected. Below it, the 'Warehouses' section title is displayed. A descriptive text states: 'Manage your warehouses from this page. To operate on your data, you need to create one or more warehouses.' Below this is a table with columns: Status, Warehouse Name, Size, Run..., Que..., Auto Suspend, and Auto Resume. A vertical purple bar highlights the 'Clusters' column, which is empty (0). The table data is as follows:

Status	Warehouse Name	Size	Run...	Que...	Auto Suspend	Auto Resume
Suspended	COMPUTE_WH	X-Large	0	0	10 minutes	Yes



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Exercise 2

- 1) Click **[Create]** to create a new warehouse.
- 2) Enter a name for your warehouse, such as **SMALL_WH**.
- 3) Set the **[Size]** to “Small”
- 4) Set the **[Auto Suspend]** setting to 30 minutes.

NOTE: If you have multi-cluster warehousing in your account, your dialog will look different than the dialog shown here. Skip over fields not mentioned in this lab.

Create Warehouse

Name * **SMALL_WH**

Size **Small (2 credits / hour)** 

Learn more about virtual warehouse sizes [here](#)

Auto Suspend **30 minutes** 

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

Auto Resume 

Comment

[Show SQL](#)  

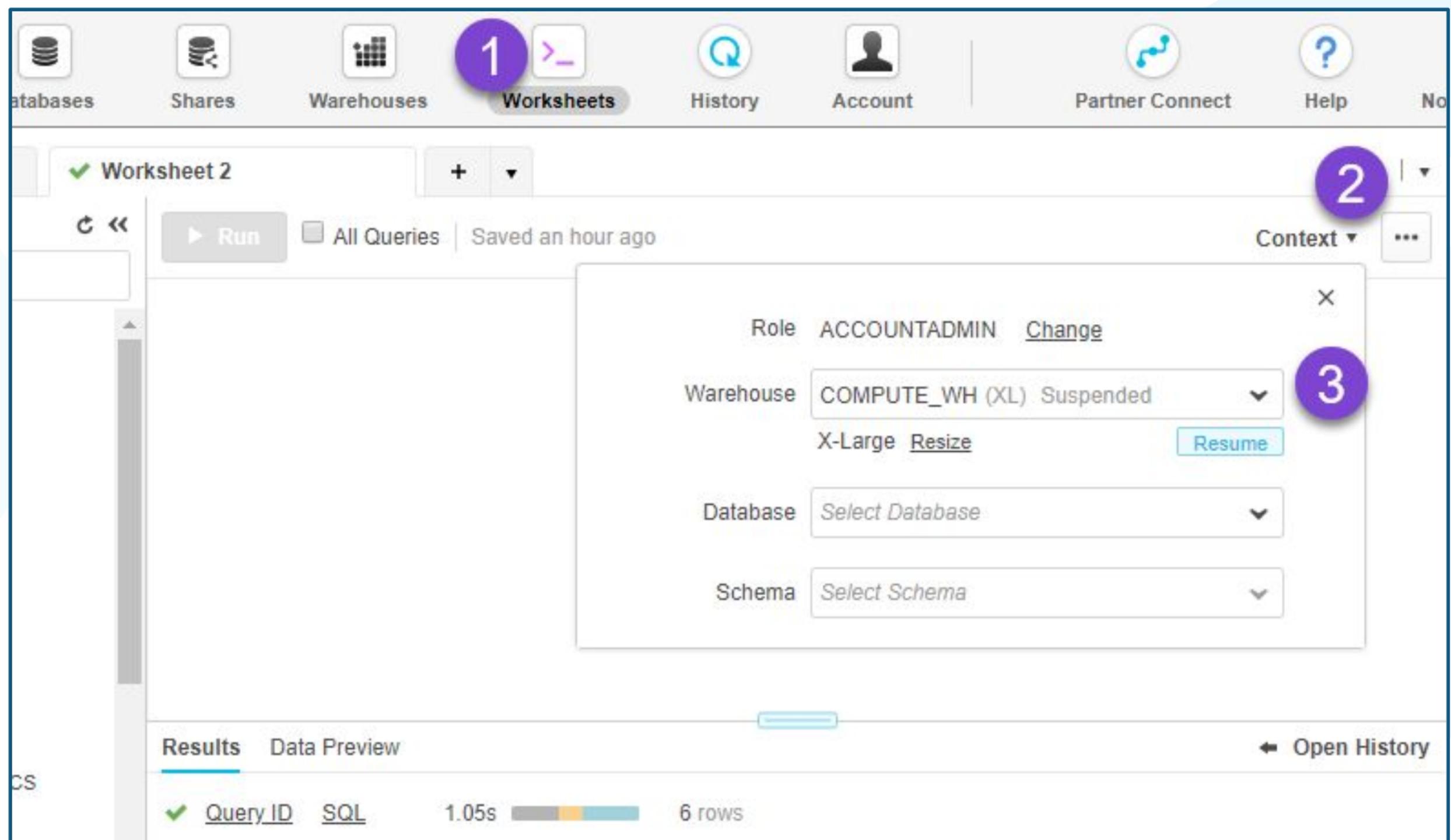


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Exercise 3

- 1) Click **[Worksheets]** in the **Navigation Ribbon**.
- 2) Click **[Context]**.
- 3) Find the **[Warehouse]** field in the **[Context]** drop-menu and click the down arrow, to reveal a list of warehouses.

NOTE: **COMPUTE_WH** is your default warehouse so it will appear in new worksheets.



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Exercise 4

- 1) Select the **SMALL_WH** you just created as the warehouse that will run any SQL in this worksheet.
- 2) Click outside the drop menu area to close the drop menu.

NOTE: The width of your browser window affects the display of the context attributes.

When the window is wide, you can see the all four settings' values.

When it is narrow, you cannot see the setting values.

The screenshot illustrates the context menu in the Snowflake interface across two different window widths.

Wide Window View (Top): A large context menu is displayed, containing the following fields:

- Role:** ACCOUNTADMIN
- Warehouse:** SMALL_WH (S) (status: On)
- Database:** SMALL_WH (S) (status: On), COMPUTE_WH (XL) (status: Suspended)
- Schema:** Select Schema

A purple circle labeled "1" highlights the "Warehouse" dropdown. A purple circle labeled "2" highlights the bottom edge of the menu, indicating where it would be closed by clicking outside.

Narrow Window View (Bottom): The same context menu is shown, but the "Database" and "Schema" sections are collapsed, appearing as dropdown arrows. The "Warehouse" section remains visible.

The top navigation bar includes icons for Worksheets, History, Account, Partner Connect, Help, and a user profile for FDNEIGE ACCOUNTADMIN. The bottom navigation bar also includes icons for Partner Connect, Help, Notifications, and the user profile.



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Exercise 5

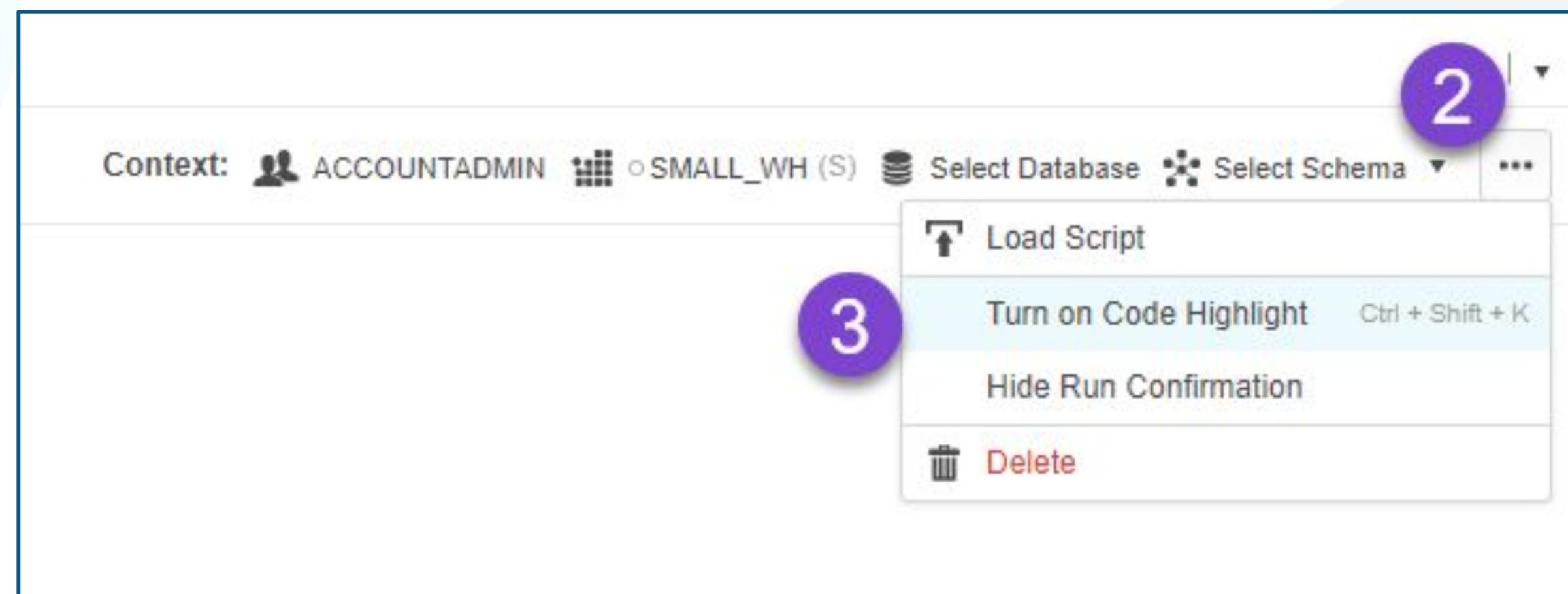
- 1) To set a worksheet's context using code, type the **USE WAREHOUSE** statements (shown) into the **SQL Pane**.
- 2) Click the [...] button to the right of the **[Context]** menu.
- 3) Select **[Turn on Code Highlight]**.
- 4) Click any text in the **SQL Pane**.

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

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

A screenshot of the Snowflake SQL pane. At the top, there is a blue 'Run' button with a play icon, followed by a checkbox labeled 'All Queries' and the text 'Saved a few seconds ago'. Below this, a purple circle with the number '1' contains a query:

```
1 USE WAREHOUSE SMALL_WH;
2 USE WAREHOUSE COMPUTE_WH;
3
4 SELECT R_REASON_DESC
5 FROM "SNOWFLAKE_SAMPLE_DATA"."TPCDS_SF100TCL"."REASON"
6 WHERE R_REASON_DESC LIKE '%Did not';
```



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Exercise 6

- 1) Click the line with **COMPUTE_WH** to highlight it, and click [Run].

The warehouse setting in the **[Context]** menu will update to say **COMPUTE_WH**.

- 2) Click the line with **SMALL_WH** to highlight it, and click [Run].

The warehouse setting in the **[Context]** menu will update accordingly.

```
1 USE WAREHOUSE SMALL_WH;
2 USE WAREHOUSE COMPUTE_WH; ← (highlighted by a blue selection bar)
3
```

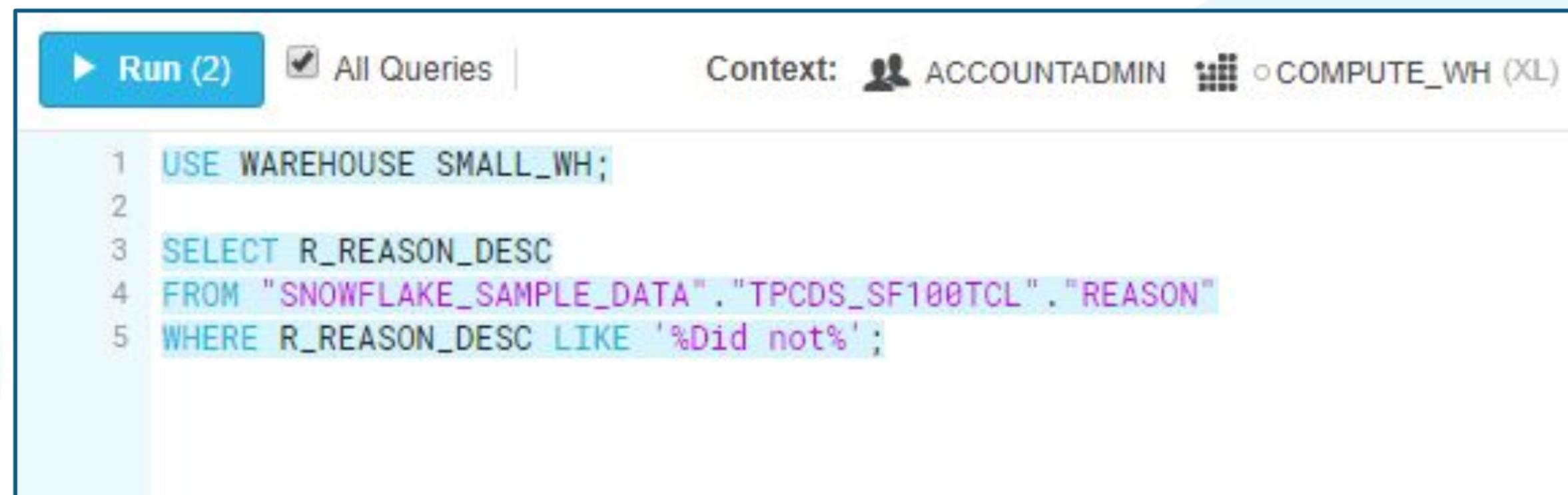
```
1 USE WAREHOUSE SMALL_WH; ← (highlighted by a blue selection bar)
2 USE WAREHOUSE COMPUTE_WH;
```



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Exercise 7

- 1) Delete the SQL line of code that sets the warehouse context to **COMPUTE_WH**.
- 2) Locate the **[All Queries]** checkbox next to the **[Run]** button and select it.
- 3) Note that both statements now have a blue highlighted background indicating that both statements will run.
- 4) Note that the **[Run]** button label has been updated to include a count **(2)**, showing the number of statements that will run.



The screenshot shows a Snowflake query editor interface. At the top, there is a toolbar with a 'Run' button labeled 'Run (2)' and an 'All Queries' checkbox which is checked. To the right of the toolbar, the text 'Context: ACCOUNTADMIN COMPUTE_WH (XL)' is displayed. Below the toolbar, the SQL code is listed in a code editor:

```
1 USE WAREHOUSE SMALL_WH;
2
3 SELECT R_REASON_DESC
4 FROM "SNOWFLAKE_SAMPLE_DATA"."TPCDS_SF100TCL"."REASON"
5 WHERE R_REASON_DESC LIKE '%Did not%';
```



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Exercise 8

- 1) Click any part of the **[Context]** line to open the context settings.
- 2) Click the down arrow in the **[Warehouse]** field.

The example shown here has additional warehouses for illustration, but notice that two pieces of information are available about warehouses from this menu.

What information appears in parentheses after the warehouse name?

What information appears on the right side of the drop list?

Context: ACCOUNTADMIN MY_WAREHOUSE (XS) UNI_STUFF PUBLIC

Role: ACCOUNTADMIN [Change](#)

Warehouse: MY_WAREHOUSE (XS) Suspended

Database: SMALL_WH (S) On

Schema: COMPUTE_WH (L) Suspended
MY_WAREHOUSE (XS) Suspended
PC_FIVETRAN_WH (3XL) Suspended



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Exercise 9

- 1) Click **[Warehouses]** in the **Navigation Ribbon**.
- 2) Highlight the row representing your **SMALL_WH** by clicking on the row background.
- 3) Click **[Configure]**
- 4) Change the **[Size]** of your **SMALL_WH** to **X-Small**
- 5) Change the **[Auto Suspend]** setting to **1 hour**.
- 6) Click **[Finish]**.

The screenshot shows the Snowflake web interface with the following steps highlighted:

- Step 1: The "Warehouses" tab is selected in the navigation ribbon.
- Step 2: The row for the warehouse named "SMALL_WH" is selected, indicated by a purple circle with the number 2.
- Step 3: The "Configure..." button is clicked, opening a modal dialog.
- Step 4: In the "Configure Warehouse" dialog, the "Size" dropdown is set to "X-Small (1 credit / hour)".
- Step 5: The "Auto Suspend" dropdown is set to "1 hour".
- Step 6: The "Finish" button at the bottom right of the dialog is highlighted with a purple circle and the number 6.

Warehouses
Manage your warehouses from this page. To operate on your data, you need to create one or more warehouses.
3

+ Create... Configure... II Suspend... ▶ Resume... ✎ Drop... ⚡ Transfer Ownership

Status	Warehouse Name
Started	SMALL_WH

2

Configure Warehouse

Name: SMALL_WH

Size: X-Small (1 credit / hour) 4

Learn more about virtual warehouse sizes [here](#)

Auto Suspend: 1 hour 5

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

Auto Resume ?

Comment:

Show SQL

Cancel

Finish 6



