

Access Redshift cluster & Query Editor

To Begin with the Lab

Summary of the Lab

In this lab, you learn how to access and query an Amazon Redshift cluster using the AWS Management Console. After creating the cluster, you can view it in the Redshift dashboard and connect using Query Editor v2 or external tools via JDBC/ODBC. Using your database credentials, you connect, explore the public schema with sample data, and run SQL queries directly in the editor. You can open multiple query tabs, monitor snapshots, and pause or delete the cluster to manage costs effectively.

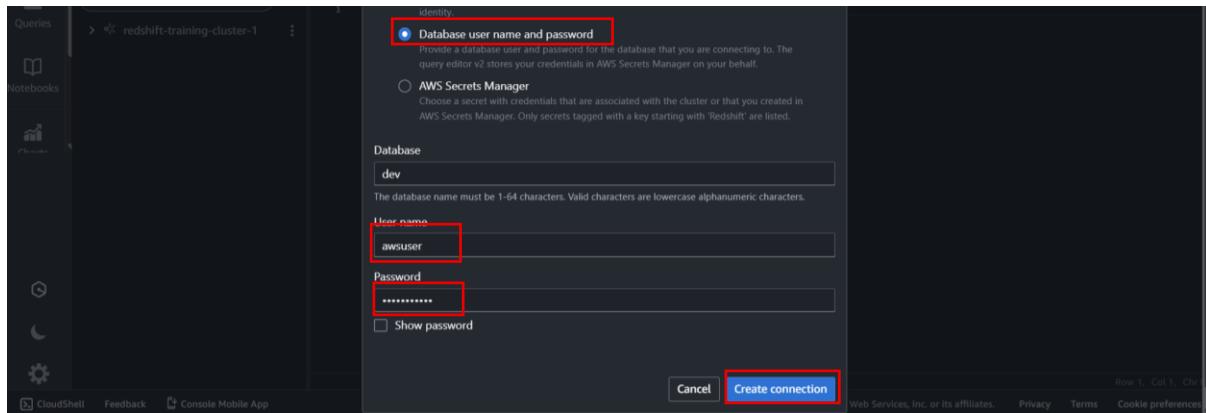
- After creating the cluster, use the left-side navigation panel in the Redshift console
- Here you can access Snapshots, Clusters, and the Query Editor v2.
- The “Provisioned Cluster Dashboard” provides an overview of all available clusters.
- You can view all clusters, their node types, and statuses.

The screenshot shows the Amazon Redshift Provisioned clusters dashboard. On the left, the navigation pane includes sections for Redshift Serverless, Provisioned clusters dashboard (highlighted with a red box), Clusters (with sub-options Reserved nodes and Snapshots highlighted with red boxes), Query editor (highlighted with a red box), Query editor v2 (highlighted with a red box), Query and database monitoring (New), Datasources, and Integrations. The main content area displays the 'Query data using Redshift query editor' section, which contains a 'Query data' button, connection information for a cluster named 'redshift-training-cluster-1' (with 'Copy JDBC URL' and 'Copy ODBC URL' buttons), and a 'Work with your client tools' section. Below this is the 'Clusters (1) Info' section, which lists the single cluster 'redshift-training-cluster-1' with its status as 'Modifying'.

- Click on Query data

This screenshot is identical to the previous one, showing the Amazon Redshift Provisioned clusters dashboard. The difference is that the 'Query data' button in the 'Query data using Redshift query editor' section is highlighted with a red box.

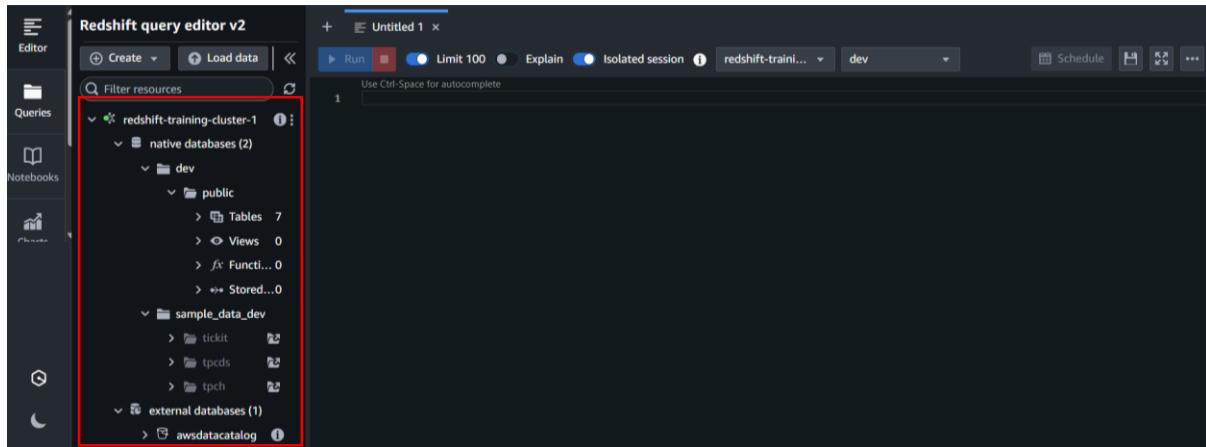
- This opens Query Editor v2 where you can connect directly to your cluster.
- You will see the cluster you set up under the connection list.
- To connect, use the “Database user name and password” option.
- Enter the username (default: awsuser) and the password you created earlier.
- Click “Create connection” to connect to the cluster.



- Exploring the Database

After connecting, you can see the database and schemas in the left panel.

- By default, you will see the “public” schema with sample data loaded earlier.
- Expand the schema to view available tables (sample tables preloaded by Redshift).
- You can right-click a table to:
- View the table definition
- Run a SELECT query to preview its data



- The query editor allows writing and executing SQL queries directly.
- Example query format:
- `SELECT * FROM public.table_name;`
- You can run a query using the “Run” button or Ctrl + Enter.
- Results appear in the results pane below the editor.
- You can open multiple query tabs to work with different datasets simultaneously.
- You can also switch between clusters or databases if multiple is available.

The screenshot shows the Redshift query editor interface. On the left, there's a sidebar with 'Editor', 'Queries', and 'Notebooks' sections. The main area has tabs for 'Untitled 2' and 'Untitled 3'. The 'Untitled 2' tab is active, showing a query editor with a 'Run' button (highlighted with a red box) and a results table. A context menu is open over the 'category' table in the 'Tables' section of the sidebar, with the 'Select table' option highlighted by a red box.

Query Editor:

```
1 SELECT *
2 FROM
3     "dev"."public"."category";
```

Result Table:

	catid	catgroup	catname	catdesc
1	2	Sports	NHL	National Hockey League
2	4	Sports	NBA	National Basketball Assoc...
3	5	Sports	MLS	Major League Soccer
4	7	Shows	Plays	All non-musical theatre
5	9	Concerts	Pop	All rock and pop music co...
6	10	Concerts	Jazz	All jazz singers and bands
7	1	Sports	MLB	Major League Baseball

Row 4, Col 31, Chr 51
Query ID 3292 Elapsed time: 232 ms Total rows: 11