Controlling SNOWFLAKE Using SNOWSQL – CLI(Command Line Interface)

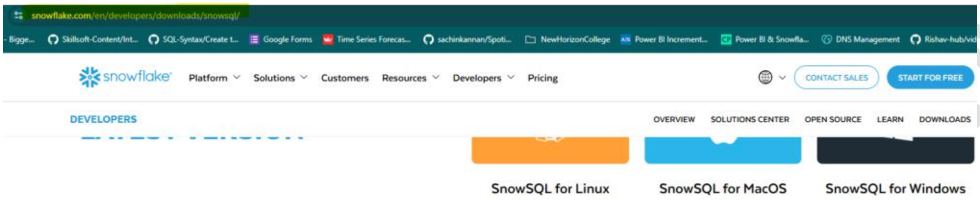
Reference : https://docs.snowflake.com/en/user-guide/snowsql-install-config

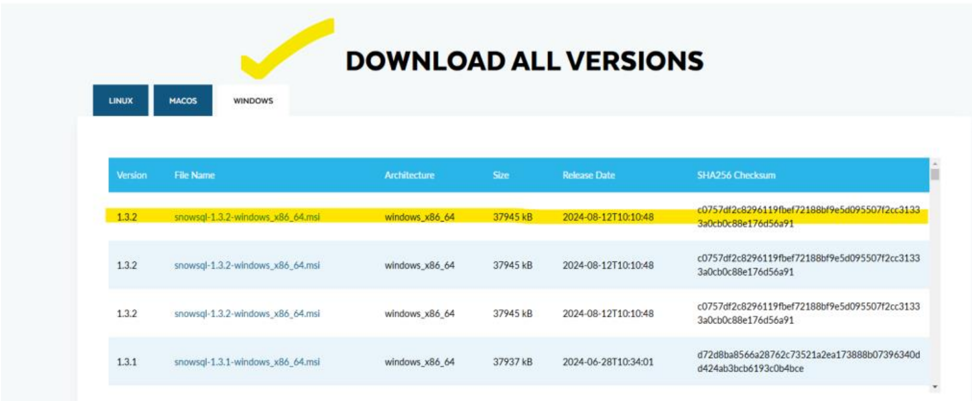
Download Link : https://www.snowflake.com/en/developers/downloads/snowsql/

SnowSQL is the **next-generation command line client** for **connecting to Snowflake**.

Use it to **execute SQL queries** and perform all **DDL** and **DML operations**, including **loading** and **unloading data** into **Snowflake, directly** from your **terminal**.

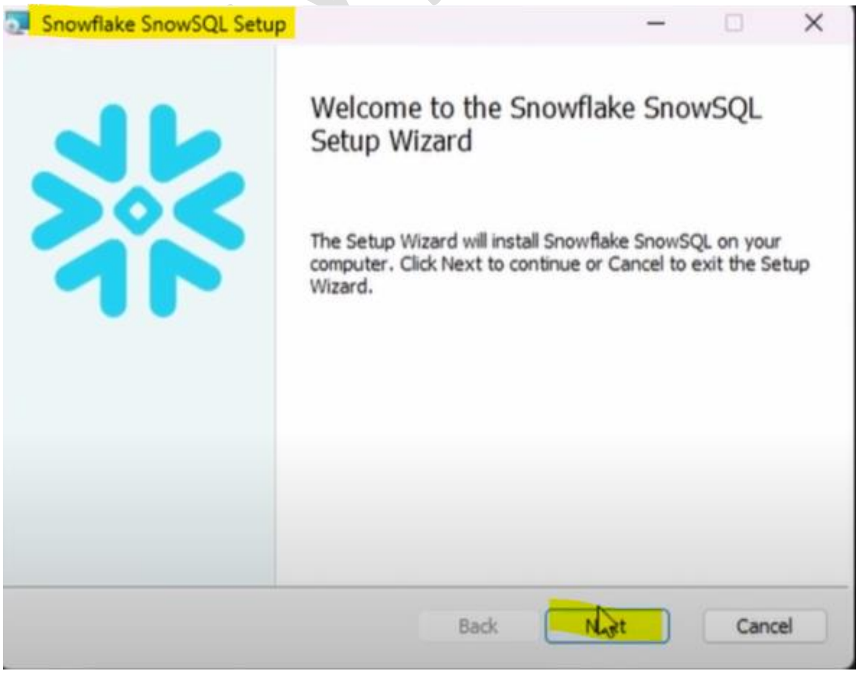
Step 1: Download the installer file for Windows/Mac/Linux based on your OS



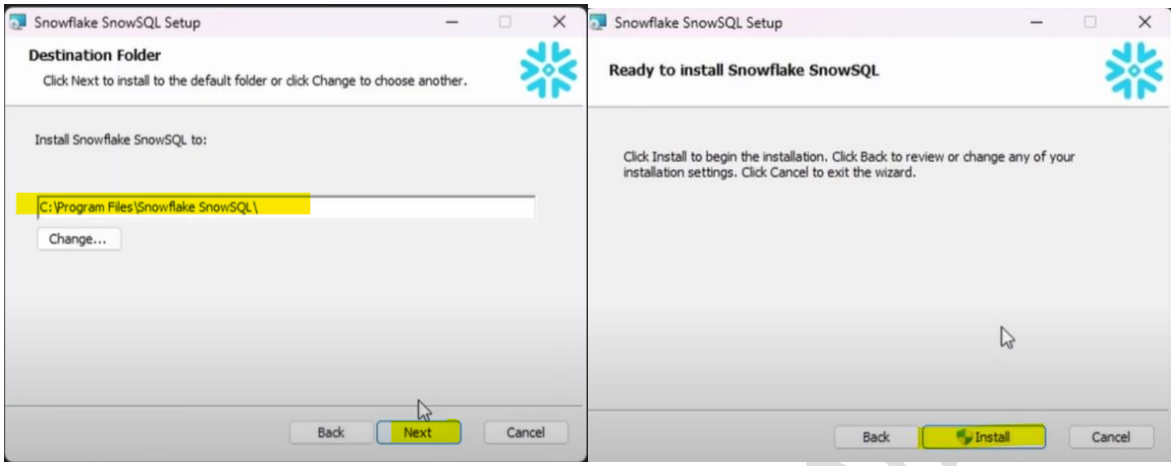


Version	File Name	Architecture	Size	Release Date	SHA256 Checksum
1.3.2	snowsql-1.3.2-windows_x86_64.msi	windows_x86_64	37945 kB	2024-08-12T10:10:48	c0757df2c8296119fbef72188bf9e5d095507f2cc3133 3a0cb0c88e176d56a91
1.3.2	snowsql-1.3.2-windows_x86_64.msi	windows_x86_64	37945 kB	2024-08-12T10:10:48	c0757df2c8296119fbef72188bf9e5d095507f2cc3133 3a0cb0c88e176d56a91
1.3.2	snowsql-1.3.2-windows_x86_64.msi	windows_x86_64	37945 kB	2024-08-12T10:10:48	c0757df2c8296119fbef72188bf9e5d095507f2cc3133 3a0cb0c88e176d56a91
1.3.1	snowsql-1.3.1-windows_x86_64.msi	windows_x86_64	37937 kB	2024-06-28T10:34:01	d72d8ba8566a28762c73521a2ea173888b07396340d d424ab3bcb6193c0b4bce

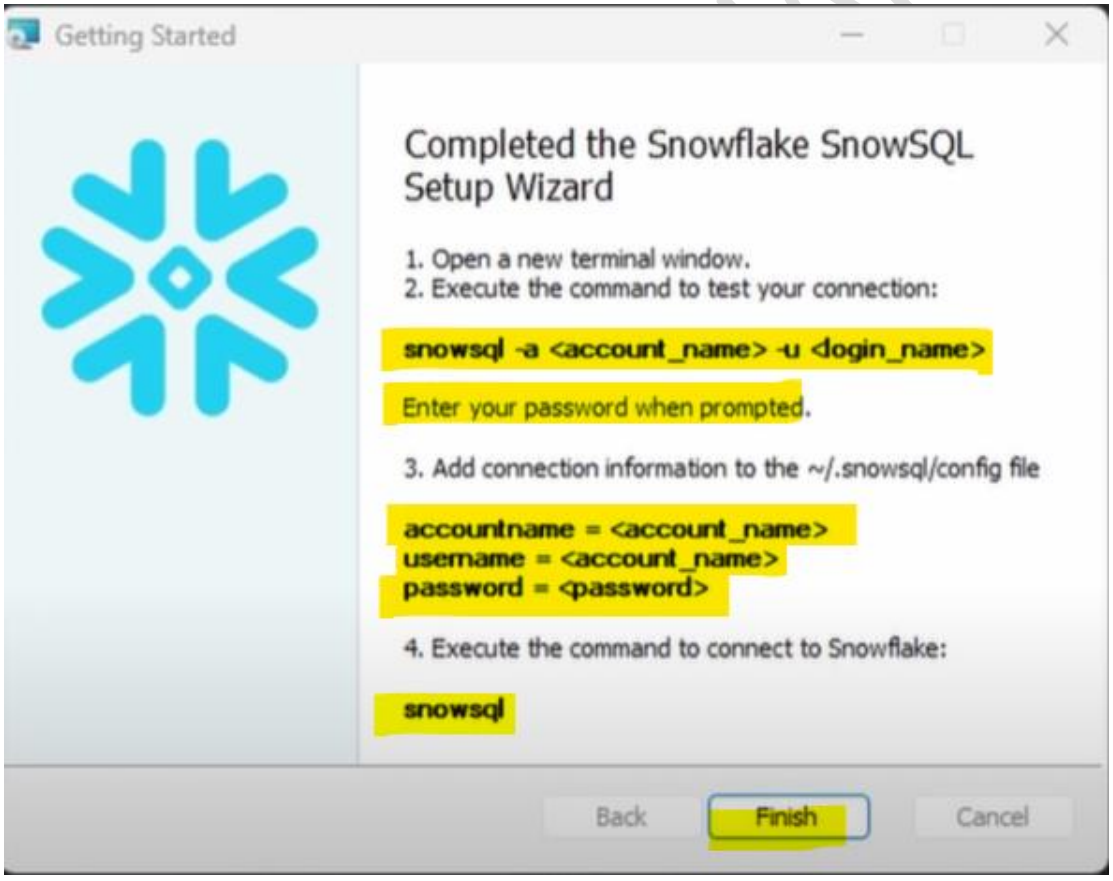
Step 2: Run the installer



Step 3 : Install in the default path



Step 4 : Once installed, open the terminal/cmd in you system and feed below creddentials



Step 5 : Run snowsql and see if you get the below screen for successful installation.

```
PS C:\Users\Anand Jha> 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.

  -u, --username TEXT             Username to connect to Snowflake. Honors
                                  $SNOWSQL_USER.

  -d, --dbname TEXT               Database to use. Honors $SNOWSQL_DATABASE.
  -s, --schemaname TEXT           Schema in the database to use. Honors
                                  $SNOWSQL_SCHEMA.

  -r, --rolename TEXT             Role name to use. Honors $SNOWSQL_ROLE.
  -w, --warehouse TEXT            Warehouse to use. Honors $SNOWSQL_WAREHOUSE.
  -h, --host TEXT                 Host address for the connection. Honors
```

Step 6 : Type **snowsql -a <snowflake_account_identifier> -u <snowflake_username>** as shown below.If parametes are correct, it will prompt for password. If your input password is correct you will see **SnowSQL** with version details that means you have successfully connected with **SNOWFLAKE** using **Command Line Interface(CLI).It will show default warehouse without any database details.**

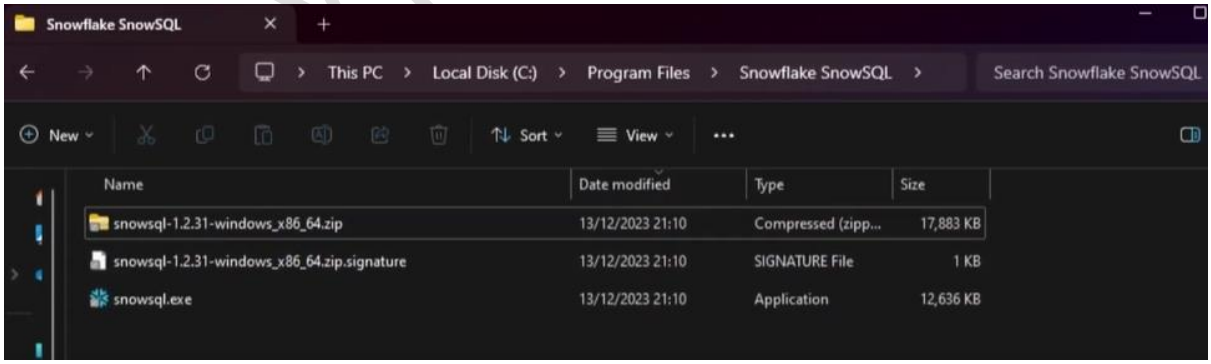
```
PS C:\Users\Anand Jha> snowsql -a fybxjxj-ot90647 -u analyticswithanand
Password:
* SnowSQL * v1.3.2
Type SQL statements or !help
analyticswithanand#COMPUTE_WH@(no database).(no schema)>!exit
Goodbye!
```

Step7 : Then use appropriate snowflake commands in order to connect to **warehouse**, **database**, **schema** and then run your **SQL SCRIPT** as shown below.

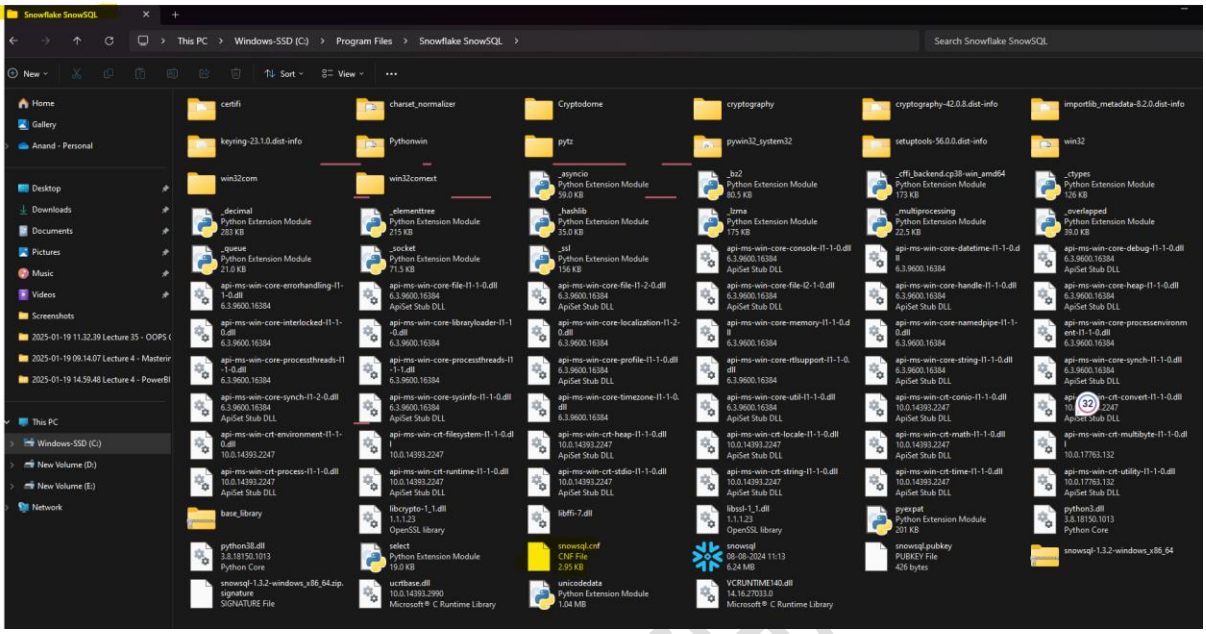
```
* SnowSQL * v1.3.2
Type SQL statements or !help
analyticswithanand#COMPUTE_WH@(no database).(no schema)>USE DATABASE DEMO_DATABASE;
+----------------------------------+
| status                           |
|----------------------------------|
| Statement executed successfully. |
+----------------------------------+
1 Row(s) produced. Time Elapsed: 0.139s
analyticswithanand#COMPUTE_WH@DEMO_DATABASE.PUBLIC>USE WAREHOUSE DEMO_WAREHOUSE;
+----------------------------------+
| status                           |
|----------------------------------|
| Statement executed successfully. |
+----------------------------------+
1 Row(s) produced. Time Elapsed: 0.113s
analyticswithanand#DEMO_WAREHOUSE@DEMO_DATABASE.PUBLIC>USE SCHEMA DEMO_SCHEMA;
+----------------------------------+
| status                           |
|----------------------------------|
| Statement executed successfully. |
+----------------------------------+
1 Row(s) produced. Time Elapsed: 0.113s
analyticswithanand#DEMO_WAREHOUSE@DEMO_DATABASE.DEMO_SCHEMA>SELECT * FROM SALES_REGION_DATA;
+--------+------------+----------+--------+
| REGION | ORDER_DATE | ORDER_ID | AMOUNT |
|--------+------------+----------+--------|
| North  | 2024-01-15 |        1 | 500.00 |
| North  | 2024-03-05 |        5 | 600.00 |
| South  | 2024-01-20 |        2 | 700.00 |
| East   | 2024-02-18 |        4 | 200.00 |
+--------+------------+----------+--------+
4 Row(s) produced. Time Elapsed: 0.521s
analyticswithanand#DEMO_WAREHOUSE@DEMO_DATABASE.DEMO_SCHEMA>!exit
Goodbye!
```

Note : Anytime if you want to close connection type **!exit**

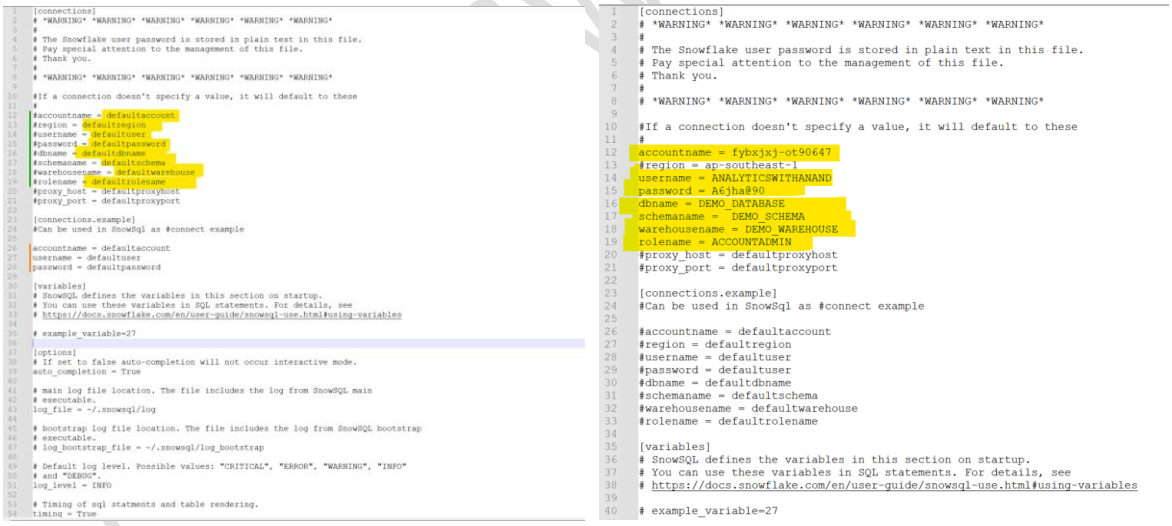
Step 8 : Navigate to below path where **SNOWSQL** have been **installed** and **unzip** the folder



Step 9 : Once **unzipped/extracted**, you will see all the list of below files.Click on the highlighted **snowsql.cnf** file and open it in **notepad.**

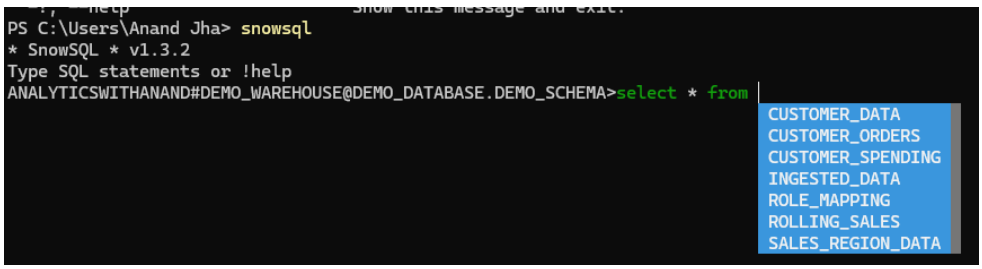


Step 10. Uncomment from line no **12 till 19(remove #)** and give the desired input by copying it from snowflake credentials and **save** it so that next time you login to your **snowsql**, **u need not have to give username and password which we did before.**



```
[connections]
# *WARNING* *WARNING* *WARNING* *WARNING* *WARNING* *WARNING*
#
# The Snowflake user password is stored in plain text in this file.
# Pay special attention to the management of this file.
# Thank you.
#
# *WARNING* *WARNING* *WARNING* *WARNING* *WARNING* *WARNING*

#If a connection doesn't specify a value, it will default to these
#
accountname = fybxjxj-ot90647
#region = ap-southeast-1
username = ANALYTICSWITHANAND
password = A6jha890
dbname = DEMO_DATABASE
schemaname = DEMO_SCHEMA
warehousename = DEMO_WAREHOUSE
rolename = ACCOUNTADMIN
#proxy_host = defaultproxyhost
#proxy_port = defaultproxyport

[connections.example]
#Can be used in SnowSql as #connect example

#accountname = defaultaccount
#region = defaultregion
#username = defaultuser
#password = defaultuser
#dbname = defaultdbname
#schemaname = defaultschema
#warehousename = defaultwarehouse
#rolename = defaultrolename

[variables]
# SnowSQL defines the variables in this section on startup.
# You can use these variables in SQL statements. For details, see
# https://docs.snowflake.com/en/user-guide/snowsql-use.html#using-variables

# example_variable=27
```

So on typing snowsql , automatically it will get connected to your database as specified above and you can now interact with all your tables and views in that particular database.



```
PS C:\Users\Anand Jha> snowsql
* SnowSQL * v1.3.2
Type SQL statements or !help
ANALYTICSWITHANAND#DEMO_WAREHOUSE@DEMO_DATABASE.DEMO_SCHEMA>select * from
CUSTOMER_DATA
CUSTOMER_ORDERS
CUSTOMER_SPENDING
INGESTED_DATA
ROLE_MAPPING
ROLLING_SALES
SALES_REGION_DATA
```