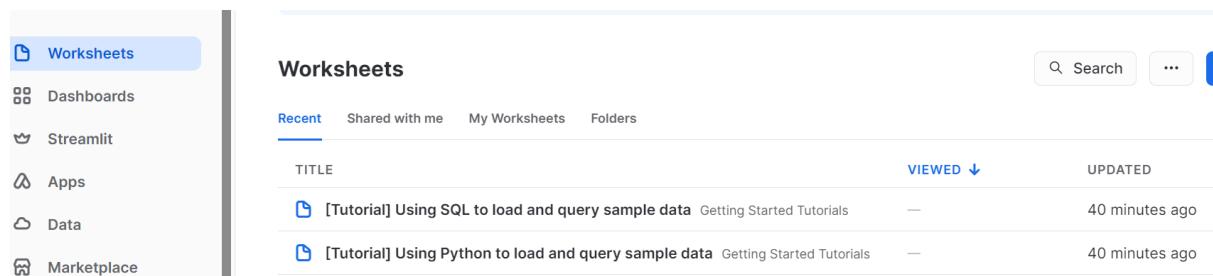


Handson Lab Day 1:

- 1.Snowflake Environment
- 2.Launch DBT CLOUD
- 3.Snowflake-dbt Integration
- 4.initialize dbt project

Setup Snowflake Account



The screenshot shows the Snowflake UI. On the left is a sidebar with the following navigation options:

- Worksheets** (selected)
- Dashboards
- Streamlit
- Apps
- Data
- Marketplace

The main panel is titled "Worksheets" and displays a list of recent worksheets. The list includes:

TITLE	VIEWED	UPDATED	
[Tutorial] Using SQL to load and query sample data	Getting Started Tutorials	—	40 minutes ago
[Tutorial] Using Python to load and query sample data	Getting Started Tutorials	—	40 minutes ago

Launch dbt cloud via Partner Connect:

In the Snowflake UI, click on Admin in the lefthand sidebar, then Partner Connect which located within the Admin section.

Partner Connect

 Search Partner Connect

[All Categories](#) [Business Intelligence](#) [C](#)

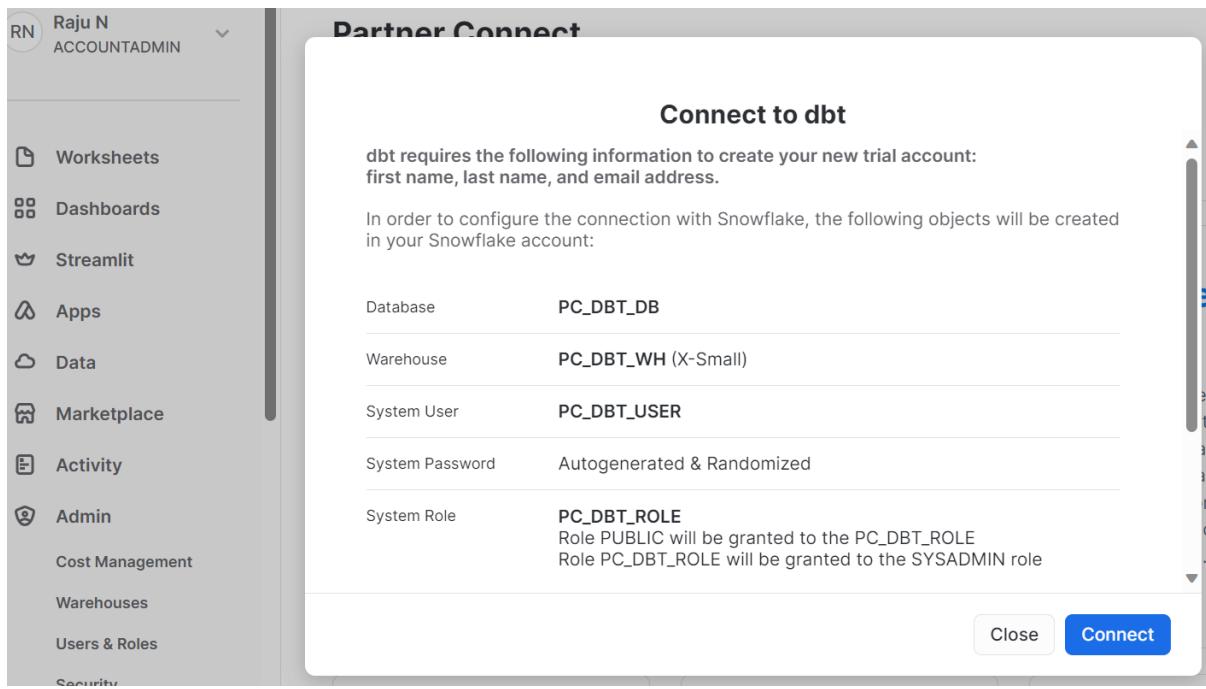


dbt

dbt lets teams collaborate on data transformation, following engineering best practices.

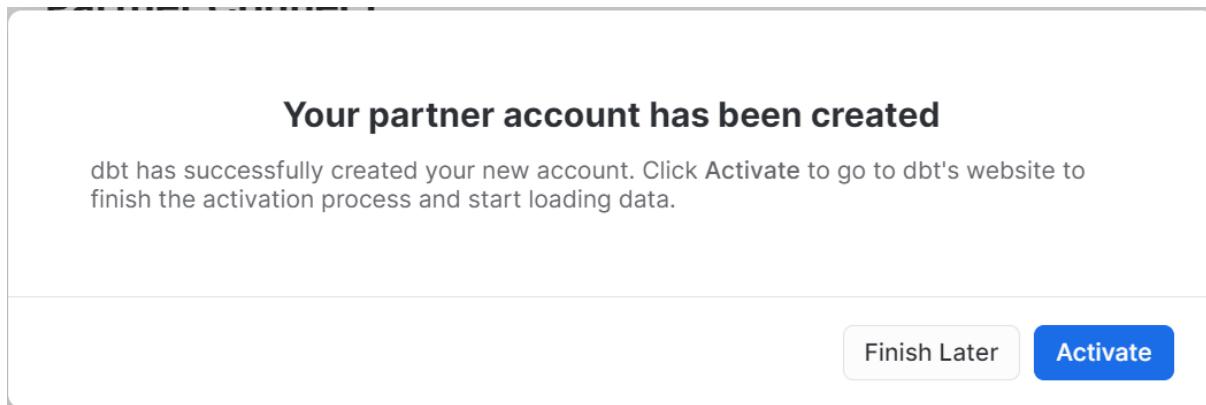
Connect to dbt:

You should now see a popup that says `Connect to dbt` that contains all of the associated objects created by Partner Connect.



Dbt- Activation:

When you see the popup that says Your partner account has been created, click on **Activate**.



Dbt-Partner Connect Trial

You should be redirected to a dbt Cloud registration page.

Recent activity

No activity to display.
Once your job(s) kick off, you'll be able to see recent activity here.

Models built by month

No data available

Aug Sep Oct Nov Dec Current

Deployment environments

+ Create environment

initialize dbt project:

click on the green initialize dbt project button in the upper left hand corner of the screen. The initialization process creates a dbt project in the file tree on the left hand side of the screen with all of the core dbt files and folders needed.

main (read-only)

Version control

Initialize dbt project

File explorer

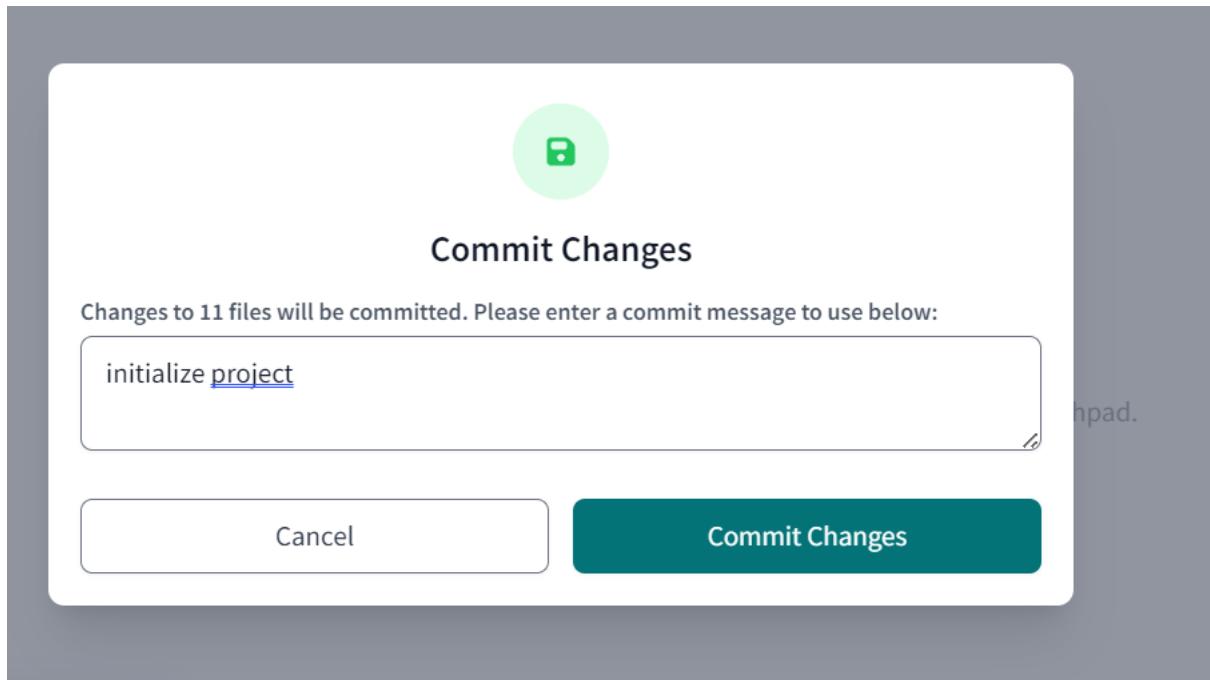
No Open Files

Create new file

you should see a new folder structure in the left hand sidebar.

The screenshot shows the dbt Cloud interface. At the top, there are navigation links: 'Develop', 'Deploy', 'Explore', and a 'Try Cloud' button. On the left, a sidebar includes 'main (read-only)', 'Version control' (with 11 changes), 'Commit and sync', 'Changes' (listing '.gitkeep analyses' and '.gitkeep macros'), and 'File explorer' (listing 'dbt-cloud-236994-partner-connect-t...' folder with subfolders 'analyses', 'macros', 'models', 'seeds', 'snapshots', 'tests', and file '.gitignore'). A central area displays a commit dialog with a green circular icon containing a white clipboard symbol. Below it, the text 'Commit Changes' is centered. A message states 'Changes to 11 files will be committed. Please enter a commit message to use below:' followed by a text input field containing 'initialize project'. At the bottom are 'Cancel' and 'Commit Changes' buttons.

click `commit` and `push` in the upper left hand corner to commit the new files and folders from the initialize step.



Snowflake SQL Commands

-- ☀ Snowflake SQL Code ☀

-- Use Snowflake Role

```
USE ROLE ACCOUNTADMIN;
```

-- Create Snowflake Warehouse

```
CREATE WAREHOUSE PC_DBT_WH_LARGE WITH  
WAREHOUSE_SIZE = LARGE;
```

-- Grant Permissions on Snowflake Warehouse

```
GRANT ALL ON WAREHOUSE PC_DBT_WH_LARGE  
TO ROLE PC_DBT_ROLE;
```

-- Snowflake Query to Retrieve Sample Data

-- Selecting All Columns from Snowflake Sample Table

```
SELECT *
```

```
FROM snowflake_sample_data.tpch_sf1.orders  
LIMIT 100;
```

Lab1- Final Output:

Snowflake:

Results

	O_ORDERKEY	O_CUSTKEY	O_ORDERSTATUS	O_TOTALPRICE	O_ORDERDATE	O_ORDERPRIORITY
1	1	36901	O	173665.47	1996-01-02	5-LOW
2	2	78002	O	46929.18	1996-12-01	1-URGENT
3	3	123314	F	193846.25	1993-10-14	5-LOW
4	4	136777	O	32151.78	1995-10-11	5-LOW
5	5	44485	F	144659.20	1994-07-30	5-LOW
6	6	55624	F	58749.59	1992-02-21	4-NOT SPECIFIED
7	7	39136	O	252004.18	1996-01-10	2-HIGH
8	32	130057	O	208660.75	1995-07-16	2-HIGH
9	33	66958	F	163243.98	1993-10-27	3-MEDIUM
10	34	61001	O	58949.67	1998-07-21	3-MEDIUM
11	35	127588	O	253724.56	1995-10-23	4-NOT SPECIFIED
12	36	115252	O	68289.96	1995-11-03	1-URGENT

Dbt:

dbt

Develop Deploy Explore Try Cloud CLI FusionConsulting / Analytics

schema.yml

models > example > schema.yml

```
version: 2
models:
  - name: customers
    description: One record per customer
    columns:
      - name: customer_id
        description: Primary key
        tests:
          - unique
          - not_null
      - name: first_order_date
        description: NULL when a customer has not yet placed an order.
```

Format Code quality Lineage

2+models/example/schema.yml

dbt build --select <model_name>

Defer to production

