

SNOWFLAKE:

The screenshot shows the Snowflake web interface. On the left, a sidebar displays a tree view of databases and schemas. The main area shows a SQL script being executed. The script includes commands to create or replace a warehouse, use the warehouse, create or replace a database, create or replace a schema, and create or replace a role. It also includes comments about granting permissions. Below the script, the 'Results' tab is active, showing a table with 3 rows and 6 columns: DATE, DAY_OF_WEEK, MONTH_NAME, YEAR_NUMBER, and two columns with long alphanumeric IDs. The table data shows dates from 2021-01-01 to 2021-01-03. The bottom right corner shows the system tray with the date and time.

```
1 create or replace warehouse midterm_project warehouse_size = 'XSMALL';
2
3 use warehouse midterm_project;
4
5 create or replace database IMDB_Db;
6
7 create or replace schema IMDB_Db.IMDB_Schema;
8
9 create or replace role IMDB_Role;
10
11 --Grant access permissions to the role on the created warehouse, database and schema
12 --First take the ownership on the DB to which you want to manage so you can grant permissions
13
```

	DATE	DAY_OF_WEEK	MONTH_NAME	YEAR_NUMBER	DI_JOB_ID
1	2021-01-01	Fri	January	2021	754cb8e0-5107-4a2b-b9c6-t
2	2021-01-02	Sat	January	2021	3be5002e-ebb0-47a4-9078-t
3	2021-01-03	Sun	January	2021	85c89e09-f767-4503-8c4d-1

create or replace warehouse midterm_project warehouse_size = 'XSMALL';

use warehouse midterm_project;

create or replace database IMDB_Db;

create or replace schema IMDB_Db.IMDB_Schema;

create or replace role IMDB_Role;

--Grant access permissions to the role on the created warehouse, database and schema

--First take the ownership on the DB to which you want to manage so you can grant permissions

grant ownership on database IMDB_Db to role ACCOUNTADMIN;

--Warehouse

GRANT USAGE ON WAREHOUSE midterm_project TO ROLE IMDB_Role;

--DATABASE

GRANT USAGE ON DATABASE IMDB_Db TO ROLE IMDB_Role;

--SCHEMA

GRANT OWNERSHIP ON SCHEMA IMDB_Db.IMDB_Schema TO ROLE IMDB_Role;

grant usage on schema IMDB_Db.IMDB_Schema to role IMDB_Role;

--Creating user and assigning warehouse and role

create or replace user IMDB_User password = 'snowflake123#' default_role = IMDB_Role
default_warehouse = midterm_project;

--if we forgot to specify default role and warehouse for a user then we can grant them access
using below commands:

grant role IMDB_Role to user IMDB_User;

GRANT ROLE IMDB_Role TO ROLE ACCOUNTADMIN;

ADF:

The screenshot shows the Microsoft Azure Data Factory portal interface. The browser address bar displays the URL: `adf.azure.com/en/home?factory=%2Fsubscriptions%2Fbb8d8fc7-332b-4312-bdd7-b053dee49e06%2FresourceGroups%2Fdatafactory-rg48...`. The page title is "Data factory" and the specific factory is "Midterm-Project-Team2". The user is logged in as "rajendran.dh@northeastern.edu".

The main dashboard features a "New" button and four primary actions:

- Ingest**: Copy data at scale once or on a schedule.
- Orchestrate**: Code-free data pipelines.
- Transform data**: Transform your data using data flows.
- Configure SSIS**: Manage & run your SSIS packages in the cloud.

Below these actions is a "Recent resources" table:

Name	Type	Last opened by you
FactRatings	Pipeline	16 minutes ago
FactRatings	Data flow	an hour ago
pipeline3	Pipeline	an hour ago
NameBasicsFlatten	Data flow	an hour ago
DateAndRegion	Pipeline	2 hours ago

The Windows taskbar at the bottom shows the time as 11:49 PM on 3/11/2025.

Microsoft Azure | Data Factory | Midterm-Project-Team2

Search factory and documentation

Validate all Save all Publish

main branch

Filter...

Komal branch

main branch

Dhanvardini branch

Shriya branch

adf_publish branch

New branch [Alt+N]

Create pull request [Alt+P]

Switch to live mode

LoadPersonnelDimDF

pipeline2

pipeline3

pipeline4

Change Data Capture (preview) 0

Datasets 63

Data flows 19

Bridge_Movie

FactRatings

Activities

Search activities

Move and transform

Synapse

Azure Data Explorer

Azure Function

Batch Service

Databricks

Data Lake Analytics

General

HDInsight

Iteration & conditionals

Machine Learning

Power Query

Data flow

Data flow1

Parameters Variables Settings Output

Pipeline run ID: 348be518-14b0-4bf4-b6fc-55661d40640d

Pipeline status Canceled

All status

Monitor in Azure Metrics Export to CSV

Showing 1 - 1 of 1 items

Activity name	Activity st...	Activit...	Run start	Duration
Data flow1	Canceled	Data flow	3/11/2025, 10:47:15 PM	45m 54s

Microsoft Azure

Search resources, services, and docs (G+/I)

Copilot

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Home

Recent

Manage view Refresh Export to CSV Clear Assign tags

Filter for any field...

Subscription equals all

Resource Group equals all

Type equals all

Location equals all

Add filter

Name	Type	Location	Resource Group	Subscription	Last accessed
midtermstorageteam2dl	Storage account	East US	DAMG7370	Azure for Students	1 day ago
midtermstorageteam2	Storage account	East US	DAMG7370	Azure for Students	1 day ago
datafactory-rg48	Resource group	East US 2	datafactory-rg48	Azure for Students	2 days ago
Midterm-Project-Team2	Data factory (V2)	East US 2	datafactory-rg48	Azure for Students	2 days ago
damg7370sprin2025	Data factory (V2)	East US	DAMG7370	Azure for Students	3 days ago
blobstoragedamg7370	Storage account	East US	DAMG7370	Azure for Students	3 days ago
blobstgdamg7370	Storage account	East US	DAMG7370	Azure for Students	3 days ago
damg7370sprin2025	Storage account	East US	DAMG7370	Azure for Students	1 month ago
DAMG7370	Resource group	East US	DAMG7370	Azure for Students	1 month ago
damg7370sprin2025	Key vault	East US	DAMG7370	Azure for Students	1 month ago

Showing 1 - 10 of 10. Display count: 10

Give feedback