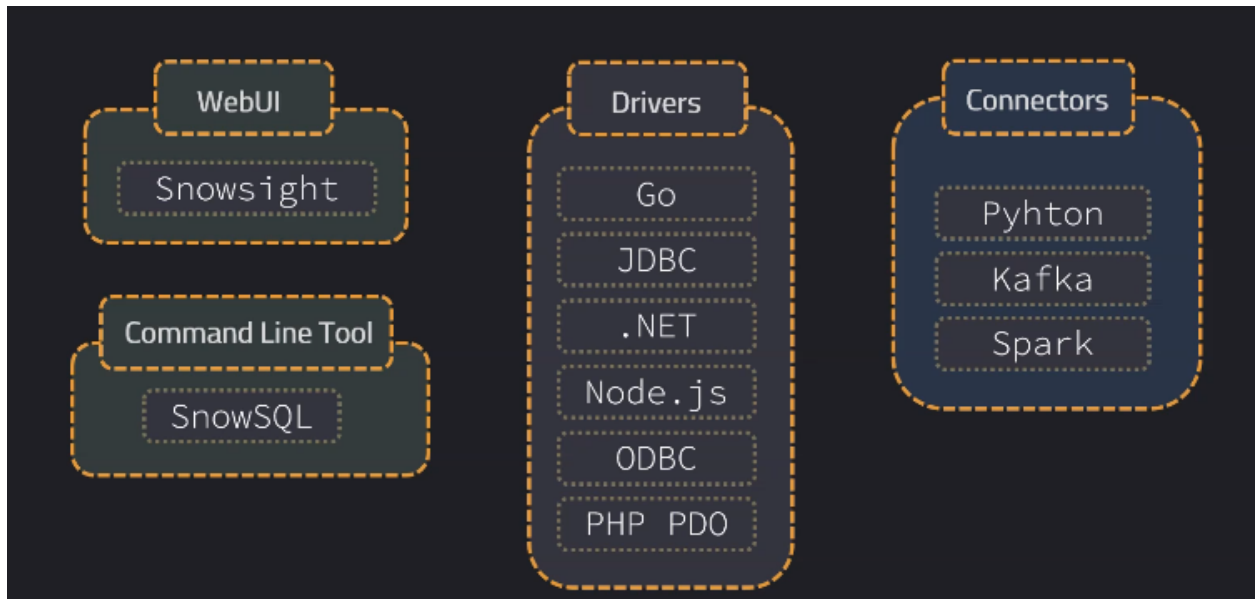


Connectors, Drivers & partner connect

1. TO write SQL...we can use SnowSight WebUI...and also we can install snowsql tool to run sql queries on CLI and can connect to snowflake



- 2.
3. We can also connect to snowflake partners and use them



- Admin
- Usage
- Warehouses
- Resource Monitors
- Users & Roles
- Security
- Billing & Terms
- Contacts
- Accounts
- Partner Connect

4.

Partner Connect

Search Partner Connect

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Provi

Business Intelligence



Domo

High-leverage BI on Snowflake with mobile-first, intelligent apps for business.



Sigma

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Empowering builders to simplify complex data and transform it into powerful analytic apps.



ThoughtSpot

Search & on all you

Snowflake connectors are software components that allow you to connect to Snowflake from a variety of applications and tools. Connectors can be used to load data into Snowflake, transform data in Snowflake, and query data in Snowflake.

Snowflake drivers are low-level software components that allow you to interact with the Snowflake database using a specific programming language. Drivers are typically used to develop custom applications that interact with Snowflake.

Snowflake Partner Connect is a program that allows Snowflake partners to integrate their products and services with Snowflake. Partner Connect makes it easy for Snowflake customers to find and use certified Snowflake partner solutions.

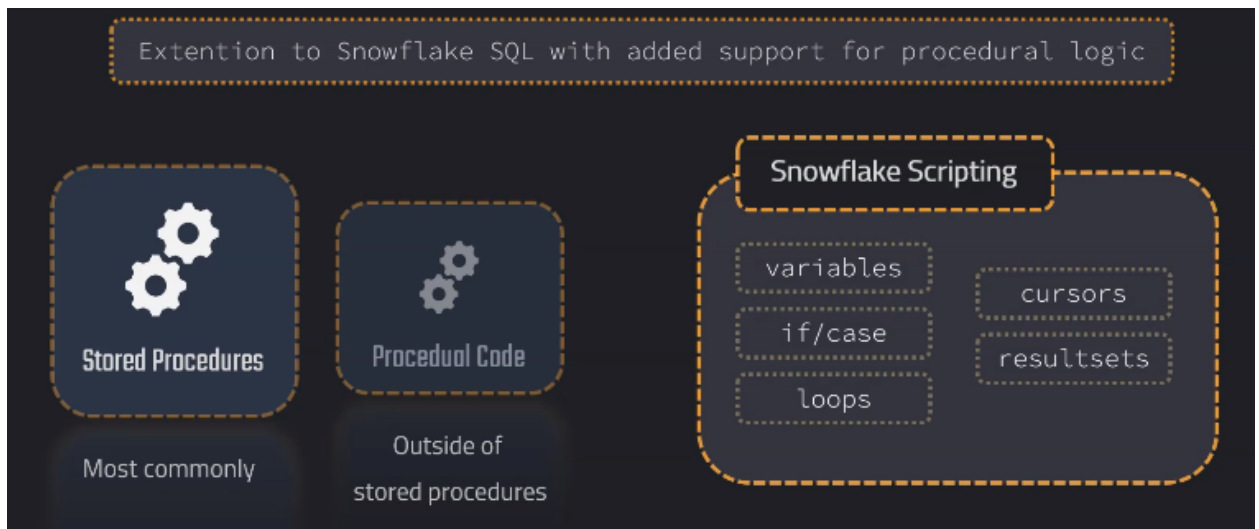
5.

Here are some examples of how connectors, drivers, and Partner Connect are used in Snowflake:

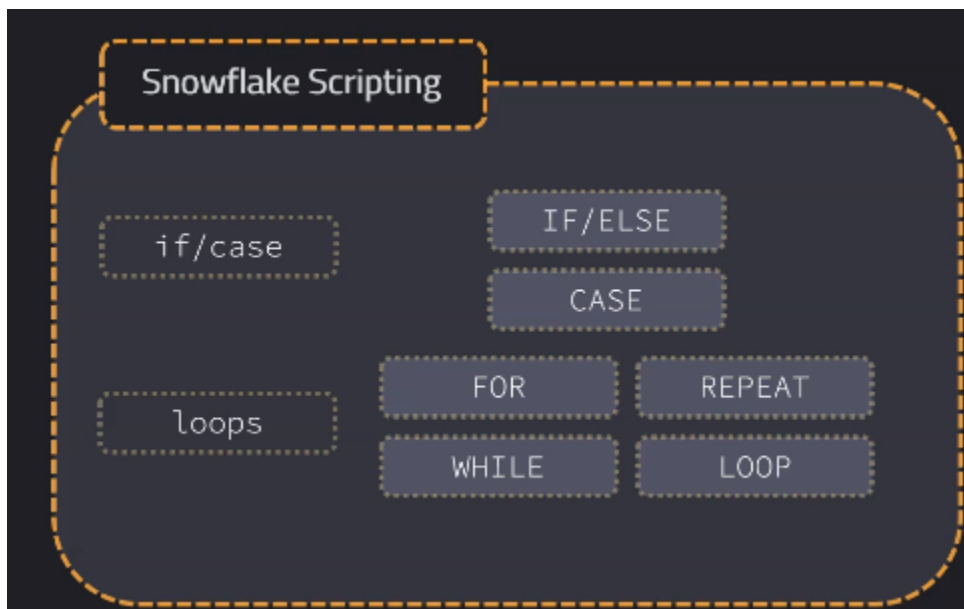
- A company could use a connector to load data from its CRM system into Snowflake.
- A data scientist could use a driver to write a custom Python script to query data in Snowflake.
- A business intelligence analyst could use a Partner Connect solution to generate reports from Snowflake data.

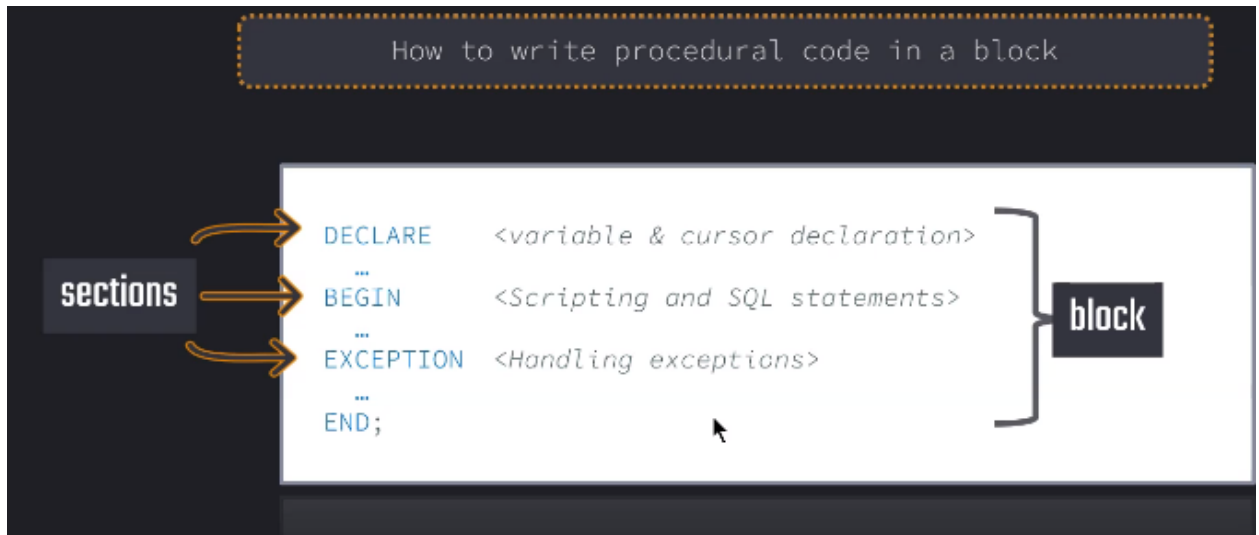
6.

Snowflake scripting

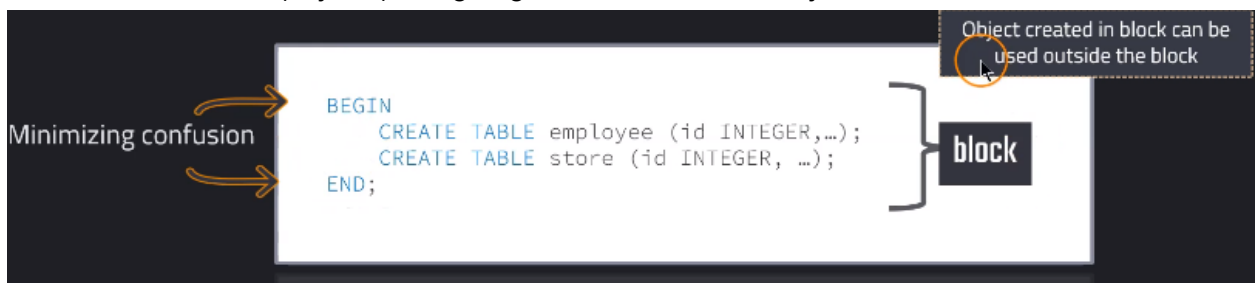


- 1.
2. We can also use if/case and loops





- 3.
4. So we have the declare section in which we can declare variables and cursors and then we have the begin section This is where the scripting and the SQL statements start, and then we have the exception section in which we can optionally handle some exceptions.
5. Declare and exception are optional
6. We can create tables(objects) using begin and can use this objects later



How to write procedural code in a block

```
CREATE PROCEDURE calc_area()  
  RETURNS float  
  LANGUAGE SQL  
  AS  
  DECLARE  
    length_a float;  
    area float;  
  BEGIN  
    length_a := 4;  
    area := length_a * length_a;  
  RETURN area  
  END;
```

variables created in block can
be used only inside the block

Snowsight

- 7.
8. But if we are using classical UI and SnowSQL we use \$\$

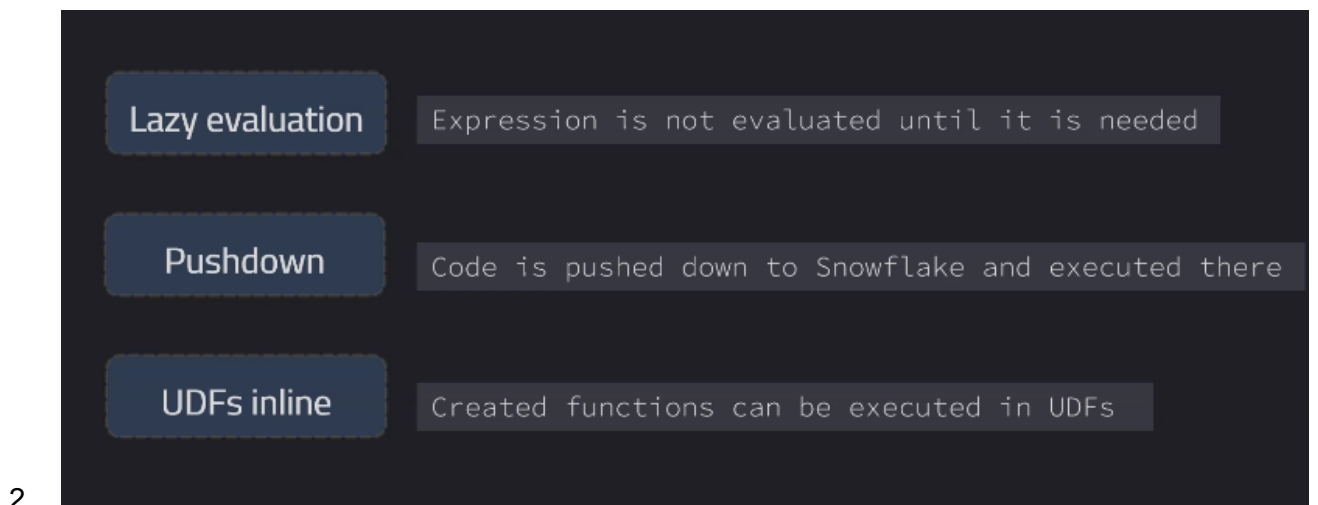
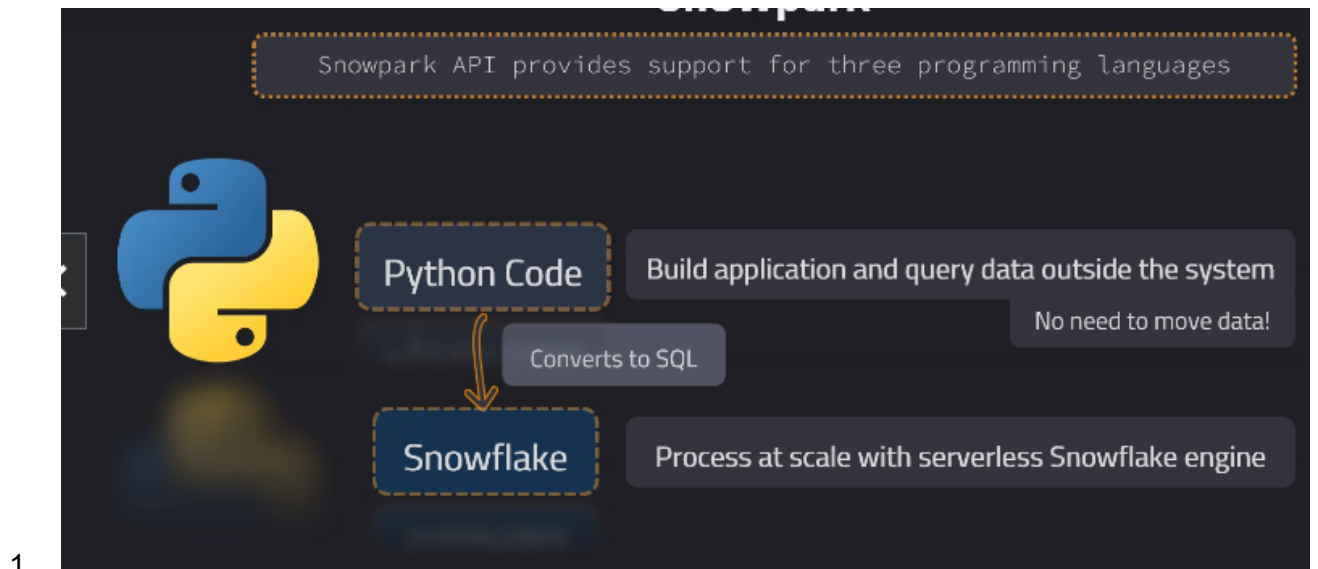
```
CREATE PROCEDURE calc_area()  
  RETURNS float  
  LANGUAGE SQL  
  AS  
  $$  
  DECLARE  
    length_a float;  
    area float;  
  BEGIN TRANSACTION  
    length_a := 4;  
    area := length_a * length_a;  
  RETURN area  
  END TRANSACTION;  
  $$
```

variables created in block can
be used only inside the block

Classic UI

SnowSQL

SnowPark



Snowpark is a framework for developing and running applications that process data in Snowflake using Python, Java, or Scala. Snowpark provides a high-level API for working with Snowflake data, making it easy to develop and run data processing applications without writing SQL.

Snowpark is built on top of the Snowflake Spark Connector, which allows Snowpark to push computations to Snowflake, taking advantage of Snowflake's powerful compute engine. This can significantly improve the performance of data processing applications.

1.

Snowpark can be used to develop a wide variety of applications, including:

- **Data pipelines:** Snowpark can be used to develop data pipelines that load, transform, and analyze data in Snowflake.
- **Machine learning:** Snowpark can be used to develop machine learning applications that train and deploy machine learning models in Snowflake.
- **Data science:** Snowpark can be used to develop data science applications that explore and analyze data in Snowflake.

2.

Here is an example of a simple Snowpark application that queries data from a Snowflake table:

Python

```
import snowpark

# Create a Snowpark Spark session
session = snowpark.Session.builder.getOrCreate()

# Load the data from the Snowflake table
df = session.read.table("my_table")

# Filter the data
df = df.filter(df["column_name"] > 10)

# Show the results
df.show()
```

3.