### **The COPY INTO Command in Snowflake**

The COPY INTO command in Snowflake is used to **load data from a stage (storage area) into a Snowflake table**.

It is the main command used for **data ingestion** from files like CSV, JSON, or Parquet.

### **Basic Syntax**

COPY INTO <table\_name>

FROM <stage\_or\_path>

FILE\_FORMAT = (TYPE = '<file\_type>' ...)

OPTIONS;

### **Example**

COPY INTO LOAN\_PAYMENT

FROM @aws\_stage

FILE\_FORMAT = (TYPE = 'CSV' FIELD\_DELIMITER = ',' SKIP\_HEADER = 1);

### **Explanation:**

* COPY INTO LOAN\_PAYMENT: Load data into the LOAN\_PAYMENT table.
* FROM @aws\_stage: Source files are in the named stage called aws\_stage.
* FILE\_FORMAT = ...: Tells Snowflake the file type and structure (CSV in this case).
* FIELD\_DELIMITER = ',': Columns are separated by commas.
* SKIP\_HEADER = 1: Skip the first line (which usually contains column names).

### **Common Options**

| **Option** | **Description** |
| --- | --- |
| FILE\_FORMAT | Defines file type (CSV, JSON, etc.) and settings |
| PATTERN | Loads only files matching a regex (e.g. '.*Order.*') |
| ON\_ERROR | What to do if loading fails (SKIP\_FILE, CONTINUE, etc.) |
| FORCE = TRUE | Reloads files even if they were loaded before |
| VALIDATION\_MODE | Checks files without actually loading |

### **COPY INTO Is Used For:**

* Loading data **from S3, Azure Blob, GCS**, or **internal stages**
* Bulk loading CSV, JSON, or Parquet files
* Applying filters using PATTERN
* Managing file loading errors

### **Quick Example: Load JSON**

COPY INTO my\_table

FROM @my\_json\_stage

FILE\_FORMAT = (TYPE = 'JSON');

### **Summary**

* COPY INTO is the go-to command for loading files into Snowflake tables
* You define where the data is coming from (FROM @stage) and what kind of file it is
* You can customize behavior with file format, patterns, and error handling options