Learning dbt: Component-Wise Guide

1. Basics

Introduction: Overview of dbt and its role in the data stack.

Installation: How to install dbt.

2. Models

Creating Models: Writing your first SQL model.

Building Models: Using the dbt run command.

Materializations: Understanding table views, incremental models.

3. Macros

Writing Macros: Create reusable SQL snippets.

Macro Use-cases: Examples like date calculations or string manipulation.

Jinja Templating: How to use Jinja in macros.

4. Tests

Creating Tests: How to write simple and custom tests.

Running Tests: Using dbt test command.

5. Snapshots

Creating Snapshots: Capturing historical data.

Using Snapshots: How to use snapshots in models.

6. Scheduling

Scheduling Overview: How to automate dbt runs.

dbt Cloud: Using dbt Cloud for scheduling.

7. Version Control

Git Integration: How to version control your dbt project.

8. Artifacts

Understanding Artifacts: Like run\_results.json.

9. Deployment

dbt Cloud: Deploying models in dbt Cloud.

CI/CD Integration: Integrating dbt with other CI/CD tools.