# **DBT\_Workspace**

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**Steps Followed:**

1. **Setup Snowflake Environment**
2. **Configure dbt\_profile.yaml**
3. **Create Source and Staging Files**
4. **Macros (Don’t Repeat Yourself or D.R.Y.)**
5. **Transform Models (Fact Tables, Data Marts)**
6. **Generic and Singular Tests**
7. **Deploy on Airflow**

 **Step 1: Setup Snowflake Environment**

* Configure and provision your Snowflake account and ensure the necessary permissions for creating databases, schemas, and roles.

 **Step 2: Configure dbt\_profile.yaml**

* Set up your dbt\_profile.yaml to establish the connection between dbt and Snowflake.
* Include the account, user credentials, role, and schema details required for Snowflake.

 **Step 3: Create Source and Staging Files**

* Create dbt source files to define external datasets.
* Write staging models to clean and structure the raw data for further processing.

 **Step 4: Macros (Don’t Repeat Yourself or D.R.Y.)**

* Write reusable macros in dbt to simplify repetitive SQL logic.
* Use these macros in your dbt models for maintainability and efficiency.

 **Step 5: Transform Models (Fact Tables, Data Marts)**

* Define dbt models to transform staging data into analytics-ready datasets.
* Create fact and dimension tables, or data marts, for your business use cases.

 **Step 6: Generic and Singular Tests**

* Write and execute generic tests to validate the integrity of your data.
* Use singular tests for custom SQL-based assertions to ensure data quality.

 **Step 7: Deploy on Airflow**

* Create Airflow DAGs to orchestrate the pipeline, including triggering dbt runs and tests.
* Deploy and monitor the workflow for seamless execution.

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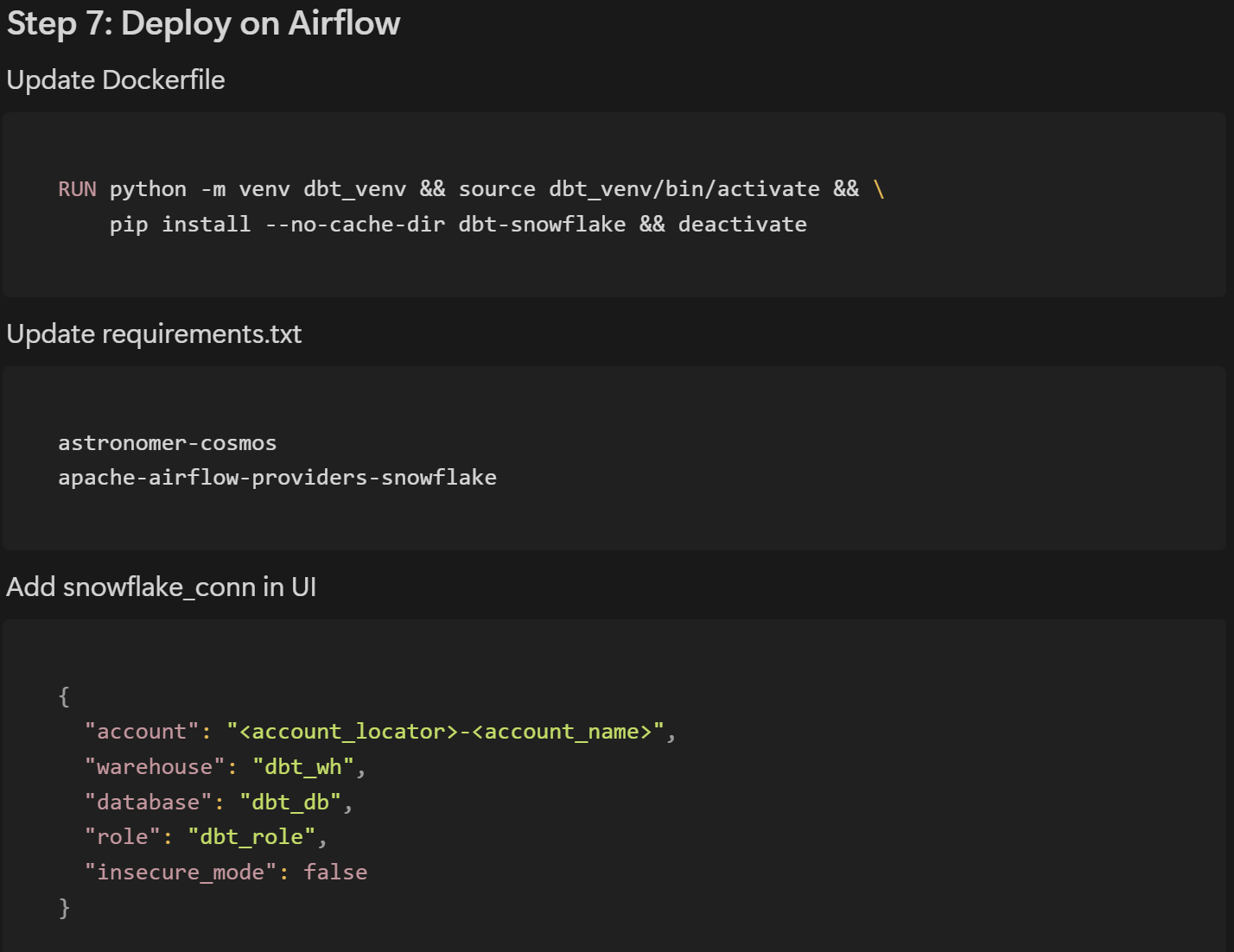
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