

Introduction to DBT

What is DBT?

It is a tool that allows you to transform your DWH's data just by writing **SELECT** statements

DBT performs the T (Transformation) in the ETL process (Extraction, Transformation, Load)

It also provides you with an easy and efficient way to orchestrate the different transformations and its dependencies

URL: <https://www.getdbt.com/>

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Objective:

For this demo we are going to generate, from raw data provided by AENA:

- One dimension table: DIM_AEROPUERTOS (All comercial airports from Spain for the year 2020)
- One fact table: FAC_VUELOS (total amount of flights within spanish territory)

For this, we Will be using dbt's modeling and seeding features

You can download the code of this video at https://github.com/biability/how_to_do/tree/main/dbt-demo

DBT offers several more features (<https://docs.getdbt.com/tutorial/setting-up>)

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Requirements

- Python
- Data warehouse

DBT can work with several database engines. There can be differences in the behaviour of the tool for each one of them.

Interchanging the db adapter we can completely migrate our Project from one database to another!

For this example we will be using Snowflake.

All available adapters: <https://docs.getdbt.com/docs/available-adapters>



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Step 1

- Install DBT with the right adapter (Snowflake)

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Step 2

- Install DBT with the right adapter (Snowflake)
- Create our DBT project

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Step 3

- Install DBT with the right adapter (Snowflake)
- Create our DBT project
- Analyze the data source

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Step 4

- Install DBT with the right adapter (Snowflake)
- Create our DBT project
- Analyze the data source
- Building our first model: a staging table

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Step 5

- Install DBT with the right adapter (Snowflake)
- Create our DBT project
- Analyze the data source
- Building our first model: a staging table
- Loading data from files: seeds

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Step 6

- Install DBT with the right adapter (Snowflake)
- Create our DBT project
- Analyze the data source
- Building our first model: a staging table
- Loading data from files: seeds
- Building our dimension: airports (DIM_AEROPUERTOS)

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Step 7

- Install DBT with the right adapter (Snowflake)
- Create our DBT project
- Analyze the data source
- Building our first model: a staging table
- Loading data from files: seeds
- Building our dimension: airports (DIM_AEROPUERTOS)
- Building our facts table: flights (FAC_VUELOS)

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Do you want to know more?

Contact us:

admin@biability.com

Download the code for this Project at: https://github.com/biability/how_to_do/tree/main/dbt-demo

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