dbt

Kristo Raun

Data Engineering 2023



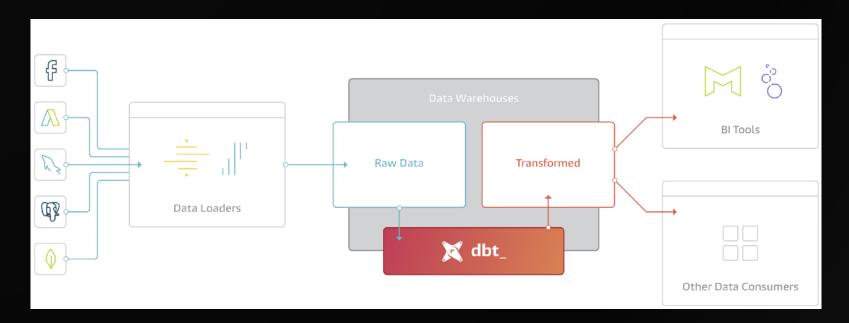
What is dbt?

What is dbt?

- dbt (data build tool) enables analytics engineers to transform data in their warehouses by simply writing select statements. dbt handles turning these select statements into tables and views.
- dbt Core is an open-source tool that enables data teams to transform data using analytics engineering best practices.

What is dbt?

- dbt (data build tool) enables analytics engineers to transform data in their warehouses by simply writing select statements. dbt handles turning these select statements into tables and views.
- dbt Core is an open-source tool that enables data teams to transform data using analytics engineering best practices.



♦ From ETL to ELT -> queries are executed on the DWH itself

- ♦ From ETL to ELT -> queries are executed on the DWH itself
- ♦ The number of scripts/statements will grow. Fast.

- ♦ From ETL to ELT -> queries are executed on the DWH itself
- ♦ The number of scripts/statements will grow. Fast.
- Benefits

- ♦ From ETL to ELT -> queries are executed on the DWH itself
- ♦ The number of scripts/statements will grow. Fast.
- Benefits
 - ♦ Parameters

- ♦ From ETL to ELT -> queries are executed on the DWH itself
- ♦ The number of scripts/statements will grow. Fast.
- Benefits
 - ♦ Parameters
 - ♦ Easier version control

- From ETL to ELT -> queries are executed on the DWH itself
- ♦ The number of scripts/statements will grow. Fast.
- Benefits
 - ♦ Parameters
 - ♦ Easier version control
 - ♦ Dependencies

- From ETL to ELT -> queries are executed on the DWH itself
- ♦ The number of scripts/statements will grow. Fast.
- Benefits
 - ♦ Parameters
 - ♦ Easier version control
 - ♦ Dependencies
 - ♦ In-built documentation

- From ETL to ELT -> queries are executed on the DWH itself
- ♦ The number of scripts/statements will grow. Fast.
- Benefits
 - ♦ Parameters
 - ♦ Easier version control
 - ♦ Dependencies
 - ♦ In-built documentation
 - ♦ Testing

- ♦ From ETL to ELT -> queries are executed on the DWH itself
- ♦ The number of scripts/statements will grow. Fast.
- Benefits
 - ♦ Parameters
 - ♦ Easier version control
 - ♦ Dependencies
 - ♦ In-built documentation
 - ♦ Testing
 - ♦ Snapshotting
 - ♦ ...

- Project
 - ♦ Sql and yml files

- Project
 - ♦ Sql and yml files
- Model
 - ♦ Sql select statement

- Project
 - ♦ Sql and yml files
- Model
 - ♦ Sql select statement
- Profile
 - ♦ Connector to dwh

- Project
 - ♦ Sql and yml files
- Model
 - ♦ Sql select statement
- Profile
 - ♦ Connector to dwh
- Macro
 - ♦ Reusable function

- Project
 - ♦ Sql and yml files
- ♦ Model
 - ♦ Sql select statement
- Profile
 - ♦ Connector to dwh
- Macro
 - ♦ Reusable function
- Test
 - ♦ Executable data validation

- Project
 - ♦ Sql and yml files
- ♦ Model
 - ♦ Sql select statement
- Profile
 - ♦ Connector to dwh
- Macro
 - ♦ Reusable function
- Test
 - ♦ Executable data validation
- Snapshot
 - ♦ Type-2 SCD (slowly changing dimension)

- Project
 - ♦ Sql and yml files
- Model
 - ♦ Sql select statement
- Profile
 - ♦ Connector to dwh
- Macro
 - ♦ Reusable function
- Test
 - ♦ Executable data validation
- Snapshot
 - ♦ Type-2 SCD (slowly changing dimension)
- Package
 - ♦ Modularized code

Final words...

Final words...

♦ dbt is a rich and consistent way of transforming data in your DWH









Final words...

- ♦ dbt is a rich and consistent way of transforming data in your DWH
- dbt is not made for extracting or pushing data to another system

