Introduction to dbt SQL on steroids

Practical use case



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You did not believe me, here is a taste

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Why we had to choose dbt over many options



Requirements

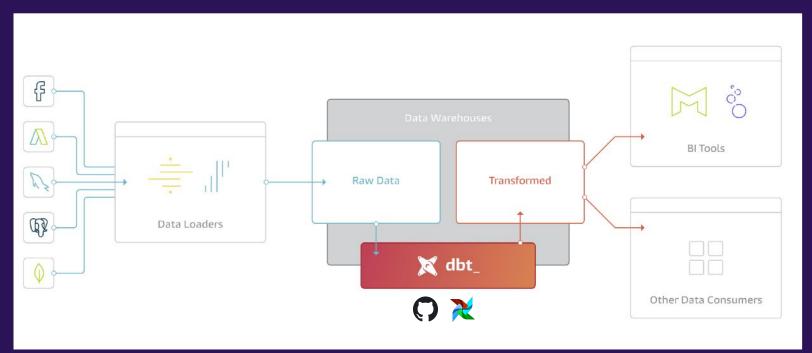


- Clean several data sources from a sql database
- Aggregate the cleaned sources to provide insight for the data analysts
- Create a documentation (if possible interactive) for analyst to learn about the data
- Possibility of versioning and of collaboration with multiple teams
- Aggregate only events from aggregator like segment to provide user and session information
 - o BUT, we do not know the number of events, their types, etc...



Implementation





02 What is dbt And what dbt is not

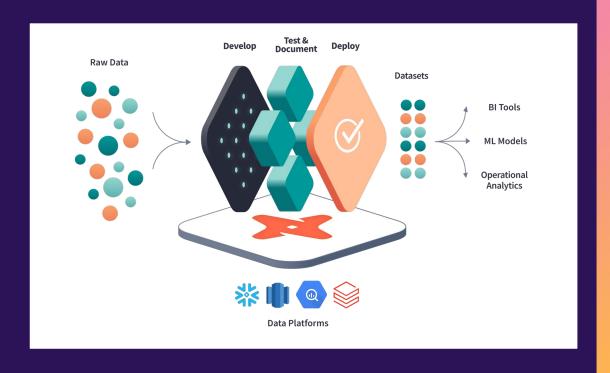
Dbt - Data Building Tool

DBT is:

- A python package
- A way to use "functionnal" SQL
- A documentation generator
- A testing framework

DBT is not:

- A SQL runner
- An end to end platform -> it is an interface





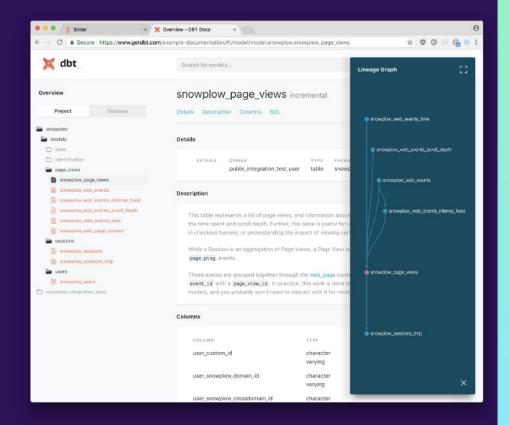
Dbt compilation

```
select
   id,
   firstname,
   lastname,
   {{ phone_to_hash('phone', 'phone') }},
   {{ mail_to_hash('email', 'email') }},
   lsp_type__c,
   convert_timezone('{{ var("timezone") }}', createddate) as createddate
from
   {{ source('salesforce', 'contact') }}
where
   isdeleted = false
   and id not in (select id from {{ ref('contact test') }})
```

"Code is Law" - Lawrence Lessig

Documentation Generation

- Dynamically obtain a dependency graph
- See the tests involved
- Get a description of each tables and fields as well as their types



Question time

Demotime

Wouhouuuu !!!

Thanks!

Does anyone have any questions?

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CREDITS: This presentation template was created by **Slidesgo**