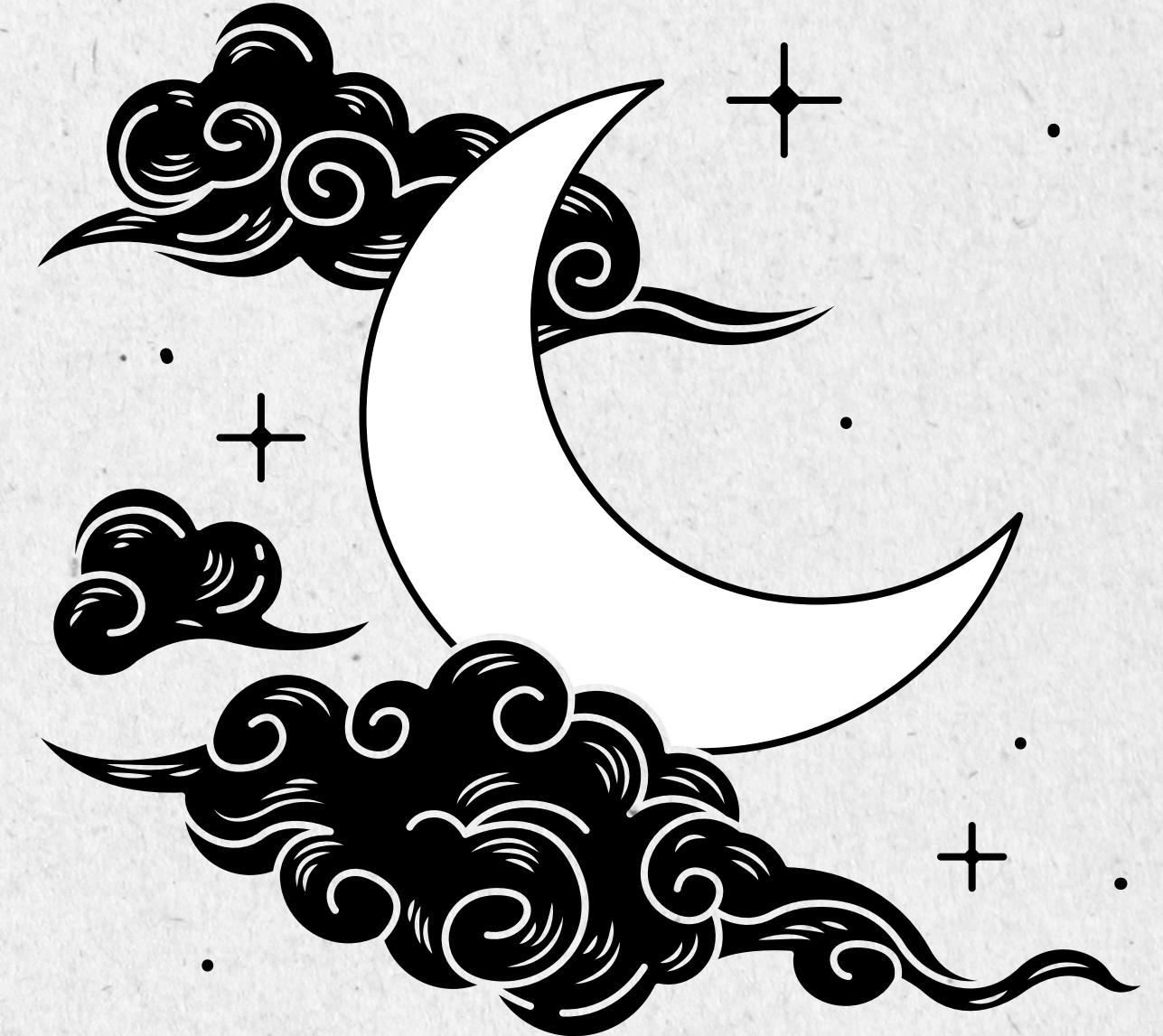


FINAL PROJECT



Kelompok 3

CONTENTS

- Meet our members
- Project goals
- Tech stack
- Data platform architecture diagram
- Projects structure
- Updates code
- Data modeling diagram
- Dags airflow
- Dashboard visualization
- Future improvement

MEET OUR MEMBERS

- ★ Iman Nurohman
- ★ Nurul Azzahro
- ★ Shindy Ainun Nabila
- ★ Yofan Wellyhans

PROJECT GOALS

1

Build-up data
infrastructure

2

Improve data modeling and
data quality

3

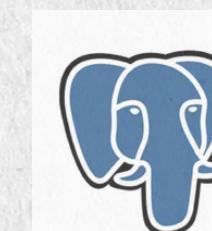
Create dashboard with data
visualization

TECH STACK

Ingestions



Data warehouse



Orchestration



Transformation



DevOps

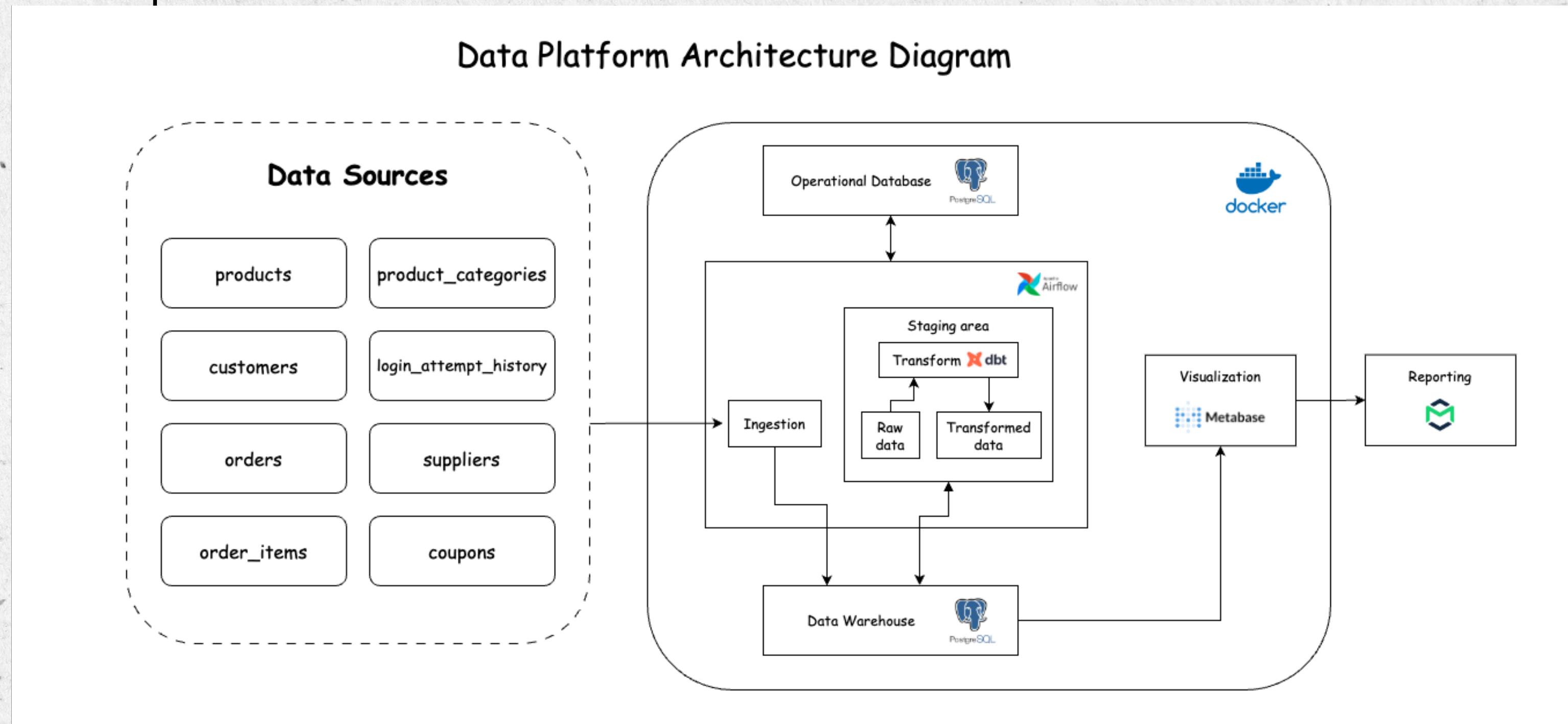


Visualization



DATA PLATFORM

Data Platform Architecture Diagram



PROJECTS STRUCTURE

```
> 📁 .vscode
> 📁 config
> 📁 dags
> 📁 data
> 📁 dbt
> 📁 docker
> 📁 file
> 📁 logs
> 📁 plugins
> 📁 postgres
> 📁 scripts
> 📁 sql
> 📁 utils
> .env
> .gitignore
> .user.yml
> makefile
> poetry.lock
> profiles.yml
> pyproject.toml
> README.md
> requirements.txt
```

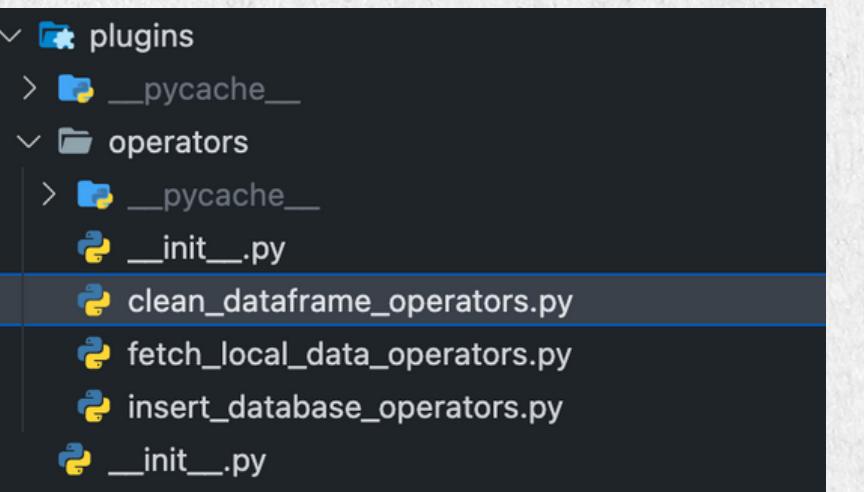
UPDATES CODE

Update Scripts File

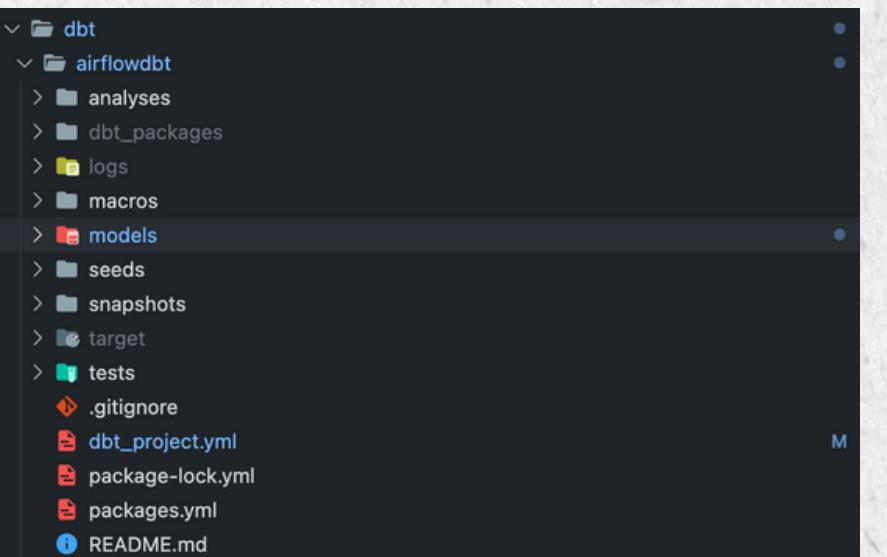
```
metabase_entrypoint.sh
#
echo 'Get List Database' && \
total=$(curl -s GET \
-H "Content-Type: application/json" \
-H "X-Metabase-Session: ${sessionToken}" \
http://$1/api/database)
echo "Total Database : ${total}"
echo 'Check Database total < 2' && \
if [ $total -gt 1 ];
then
    echo "Max Database Created";
else \
#
```

```
metabase_entrypoint.sh
#
echo 'Get List Database' && \
total=$(curl -s GET \
-H "Content-Type: application/json" \
-H "X-Metabase-Session: ${sessionToken}" \
http://$1/api/database | jq -r '.total') && \
echo "Total Database : ${total}" \
echo 'Check Database total < 2' && \
if [ $total -gt 1 ];
then
    echo "Max Database Created";
else \
#
```

Plugins to Add Custom Operators



DBT for Data Modelling



Add Poetry to Local Env

```
(airflow-dbt) imannurohman@MBP-Iman:~/dibimbini_ng_km_final_project % poetry about
Poetry – Package Management for Python

Version: 1.7.1
Poetry-Core Version: 1.8.1

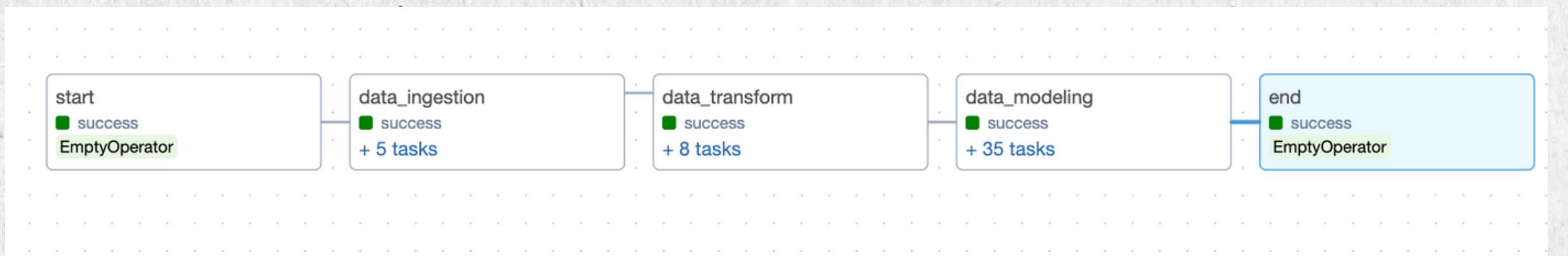
Poetry is a dependency manager tracking local dependencies of your projects and libraries.
See https://github.com/python-poetry/poetry for more information.
```

Update Config Docker Compose

```
&common
environment:
  - AIRFLOW__CORE__SQLALCHEMY_CONN=postgresql+psycopg2://${OPS_POSTGRES_USER}:${OPS_POSTGRES_PAS
  - AIRFLOW__CORE__EXECUTOR=LocalExecutor
  - AIRFLOW__CORE__DAGBAG_IMPORT_TIMEOUT=300
  - AIRFLOW__WEBSERVER_SECRET_KEY=42
  - AIRFLOW__SCHEDULER__MIN_FILE_PROCESS_INTERVAL=600
  - AIRFLOW__API__AUTH_BACKEND=airflow.api.auth.backend.session,airflow.api.auth.backend.basic_auth
  - _AIRFLOW_WWW_USER_CREATE=true
  - _AIRFLOW_WWW_USER_USERNAME=${_AIRFLOW_WWW_USER_USERNAME:-admin}
  - _AIRFLOW_WWW_USER_PASSWORD=${_AIRFLOW_WWW_USER_PASSWORD:-admin}
  - POSTGRES_USER=${OPS_POSTGRES_USER}
  - POSTGRES_PASSWORD=${OPS_POSTGRES_PASSWORD}
  - POSTGRES_DB=${OPS_POSTGRES_DB}          You, yesterday + new update from group 3
  - POSTGRES_CONTAINER_NAME=${OPS_POSTGRES_CONTAINER_NAME}
  - POSTGRES_PORT=${OPS_POSTGRES_PORT}
  - DW_POSTGRES_USER=${DW_POSTGRES_USER}
  - DW_POSTGRES_PASSWORD=${DW_POSTGRES_PASSWORD}
  - DW_POSTGRES_CONTAINER_NAME=${DW_POSTGRES_CONTAINER_NAME}
  - DW_POSTGRES_PORT=${DW_POSTGRES_PORT}
  - DW_POSTGRES_DB=${DW_POSTGRES_DB}
  - DW_POSTGRES_HOST=${DW_POSTGRES_HOST}

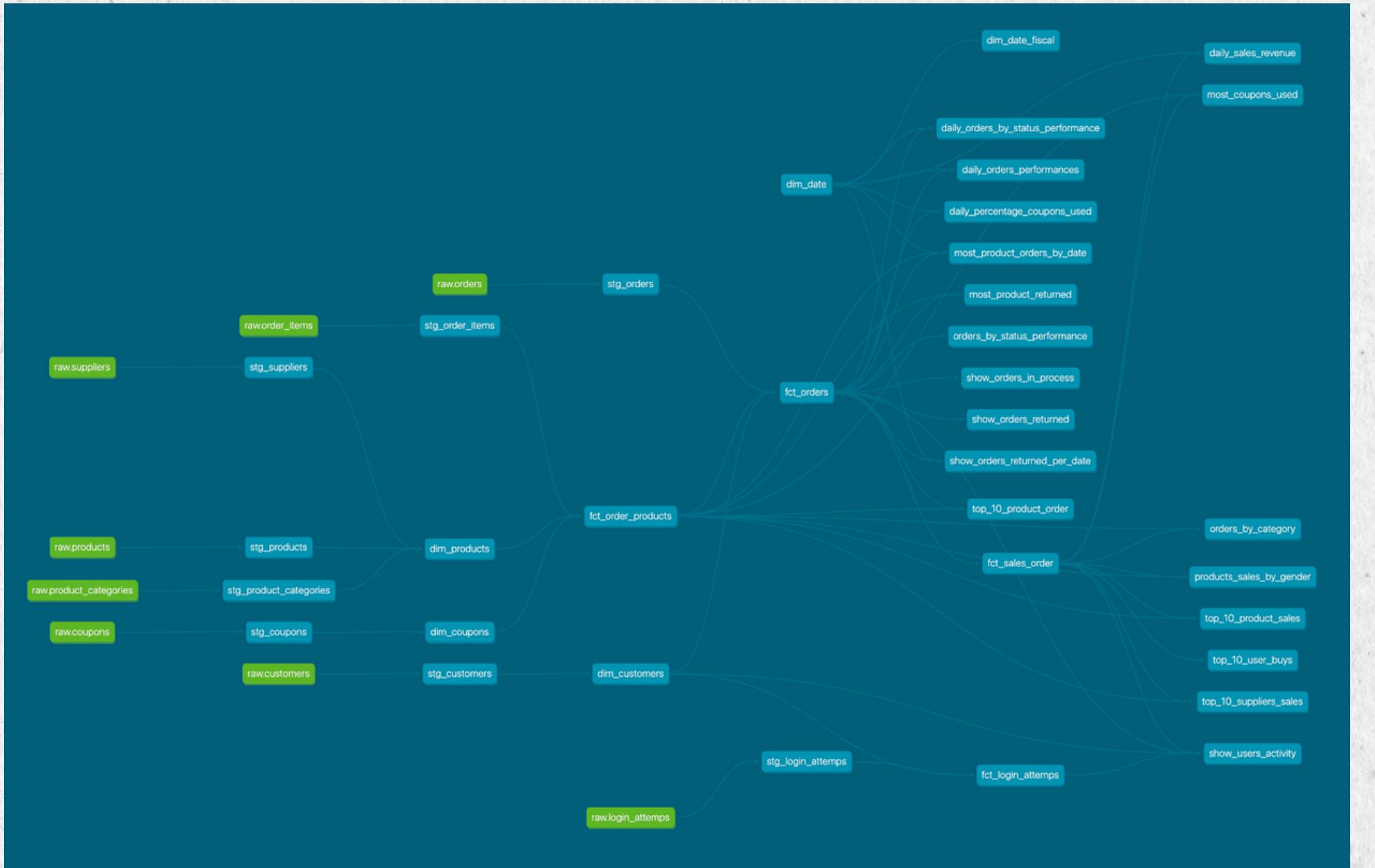
volumes:
  - ./dags:/opt/airflow/dags
  - ./data:/opt/airflow/data
  - ./utils:/opt/airflow/utils
  - ./plugins:/opt/airflow/plugins
  - ./logs:/opt/airflow/logs
  - ./scripts:/scripts
  - ./sql:/opt/airflow/sql
  - ./dbt:/opt/airflow/dbt
```

DAGS AIRFLOW



DAG	Owner	Runs	Schedule	Last Run
dbt_data_ingest_dag	Kelompok 3	1	None	2023-12-08, 08:26:15
only_data_modelling_dag	Kelompok 3	11	@once	2023-12-07, 16:32:12
only_etl_dag	Kelompok 3	3	None	2023-12-08, 07:56:17

DATA MODELING



DASHBOARD VISUALIZATION

Business Analysis by Group 3

\$79,572,674

Sales Revenue

↓ 67.82% • was \$247,297,758.5 last day

99,967

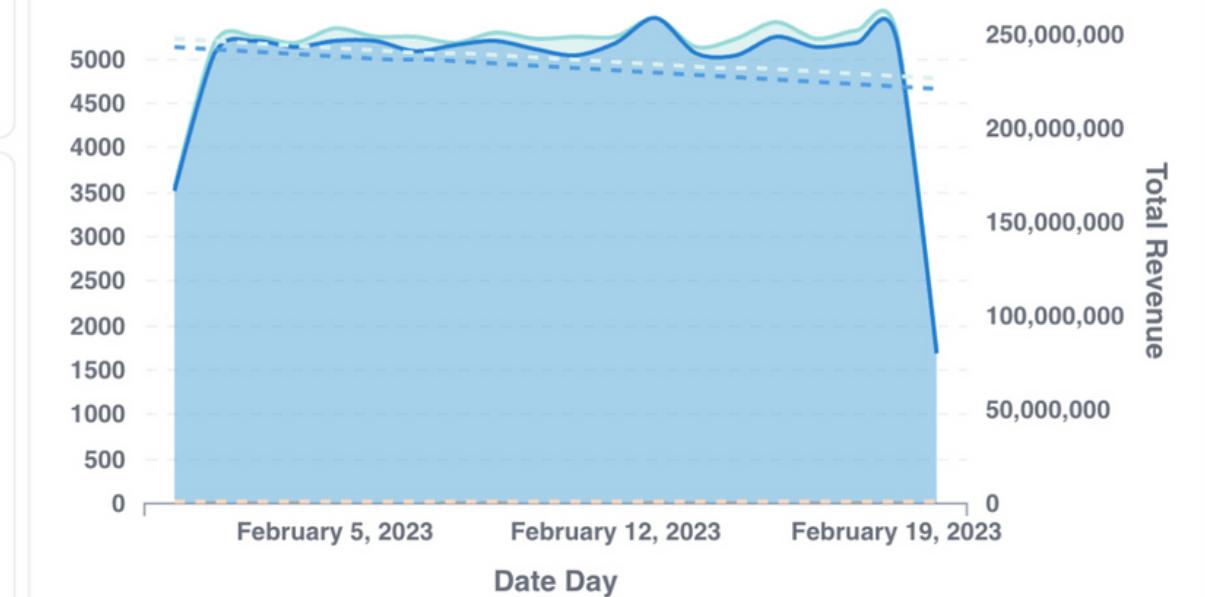
Total Sales

100.0k

Total Orders

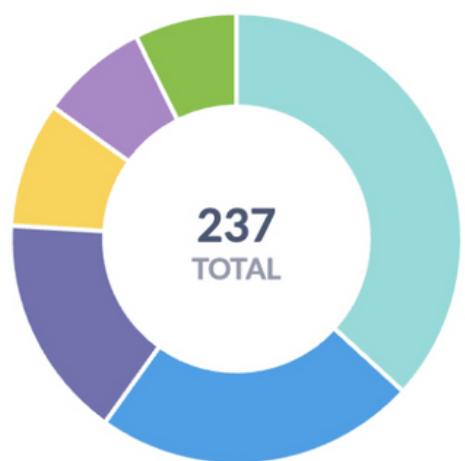
Daily Sales Revenue

● Total Sales ● Total Revenue ● Total Coupon Used



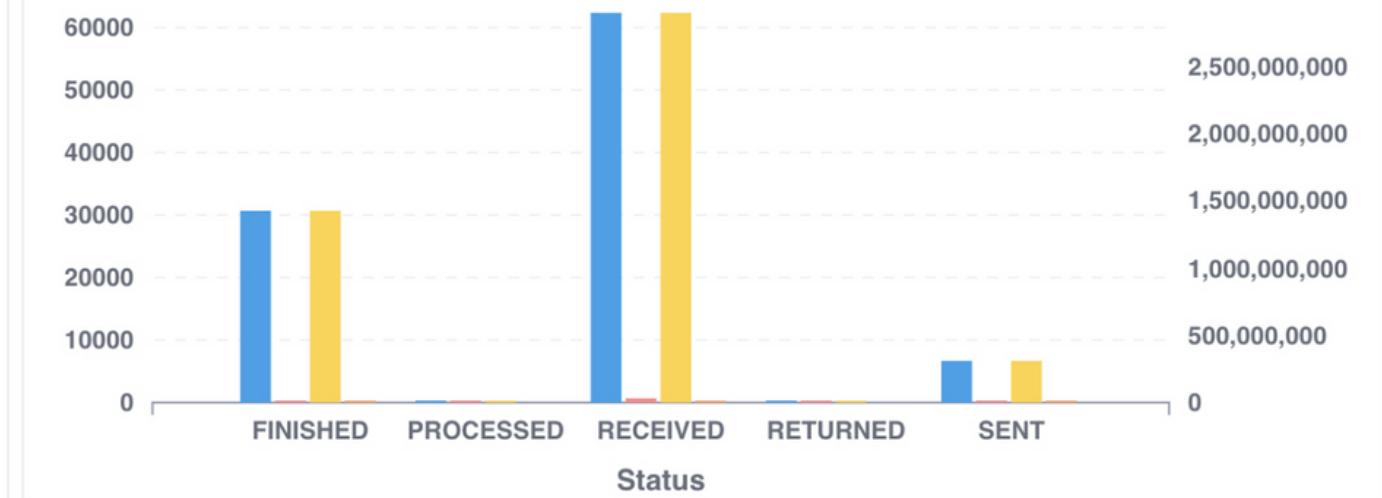
Orders By Category

- Food
- Fashion
- Tech
- Sport
- Furniture
- Otomotive



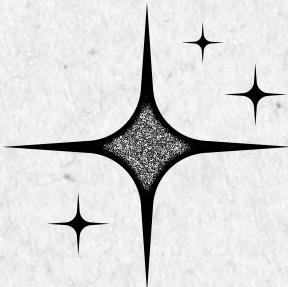
Orders By Status Performance

● Total Orders ● Total Amount ● Total Purchase ● Total Coupon Used



THINGS THAT CAN BE UPDATED AND IMPROVED

- 1. More Visualization**
- 2. Documentations**



**THANK
YOU**