

Figure 1. ETL Architecture Diagram

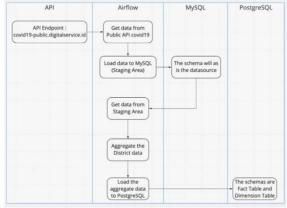
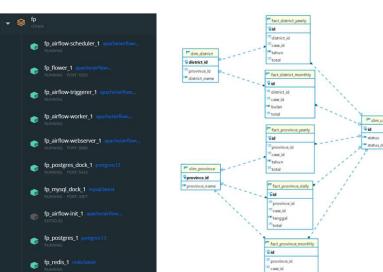


Figure 2. Integration Design Diagram



op_learges=("u=]_ata"s "https://covidite-public.digitalservice.id/api/vi/rekapitulasi_v2/jahar/harian?tevel-kab"}
insert_to_staging_area = Pythonoperator(
tast_ide* insert_to_staging_area;
python_callable=insert_into_table
po_learges=("u=]_atanta_itation_atanta

Figure 3. Docker Image

Figure 4. ERD Diagram



Figure 6. Tree View Result Airflow

	120 id VI	123 province_id 📆	123 case_id VI	noc tahun 🟋	123 total VI
1	1	32 ₫	12	2020	35,463
2	2	32 ₺	2 🖾	2020	100,562
3	3	32 ₺	3 🗗	2020	3,125
4	4	32 ₫	4 🖾	2020	55,133
5	5	32 ₫	5 ₺	2020	162,890
6	6	32 ₫	6 ₺	2020	0
7	7	32 ₺	7 ₺	2020	15,039
8	8	32 ₫	8 🖾	2020	97,644
9	9	32 ₺	9 🗗	2020	106,694
10	10	32 ₫	10 ₪	2020	68,645
11	11	32 ₺	11 🗗	2020	1,163
12	12	32 ₺	1 🖾	2021	23,972
13	13	32 🗗	2 🖾	2021	107.756

Figure 7. One of the Fact Table

PROJECT EXPLANATION

The goals of this project is make tables in data warehouse that contain total of spread covid19 at Jawa Barat, the Data took API public. This project using docker as virtual machine for built airflow as scheduler, MySQL as staging area, and PostgreSQL as data warehouse. First step, built image at docker that contain airflow, MySQL, and PostgreSQL. Then, create DAG for know flow from API to fact table. In this project, the flow are getting url then save to staging area. After that, migrate (load) data from staging area to warehouse and make a dimensional table. Then, aggregate data and insert to fact table. The result can be seen in figure number 7.