

Департамент образования и науки города Москвы

Государственное автономное образовательное учреждение высшего
образования города Москвы

«Московский городской педагогический университет»

Институт цифрового образования

Департамент информатики, управления и технологий

Вебинар 14 марта

Выполнил(а): st_105

Москва

2025

Подготовка среды:

проверка запущенных контейнеров docker ps

удаление запущенных контейнеров docker kill

Настройка schedule 4 минуты

```
with DAG(
    dag_id="simulative_example_basic_dag",
    schedule=datetime.timedelta(minutes=4),
    start_date=datetime.datetime(2025, 1, 1),
    catchup=False,
    tags=["simulative"],
) as dag:
```

запуск сервисов make up-services

запуск службы airflow make up-af

The screenshot shows the Visual Studio Code interface. The Explorer pane on the left shows a file tree for 'LAB_0_WEBINAR' with files like 'airflow', 'data/clickhouse/node1', 'config.xml', 'users.xml', 'fakerApi', 'images', 'init', 'ch', 'pg', 'db.sql', 'env', 'env_example', 'flake8', 'gitignore', 'pre-commit-config.yaml', 'ch_check', 'docker-compose-af.yaml', 'docker-compose-services.yaml', 'env_flake8.rar', and 'Makefile'. The Makefile in the center contains the following content:

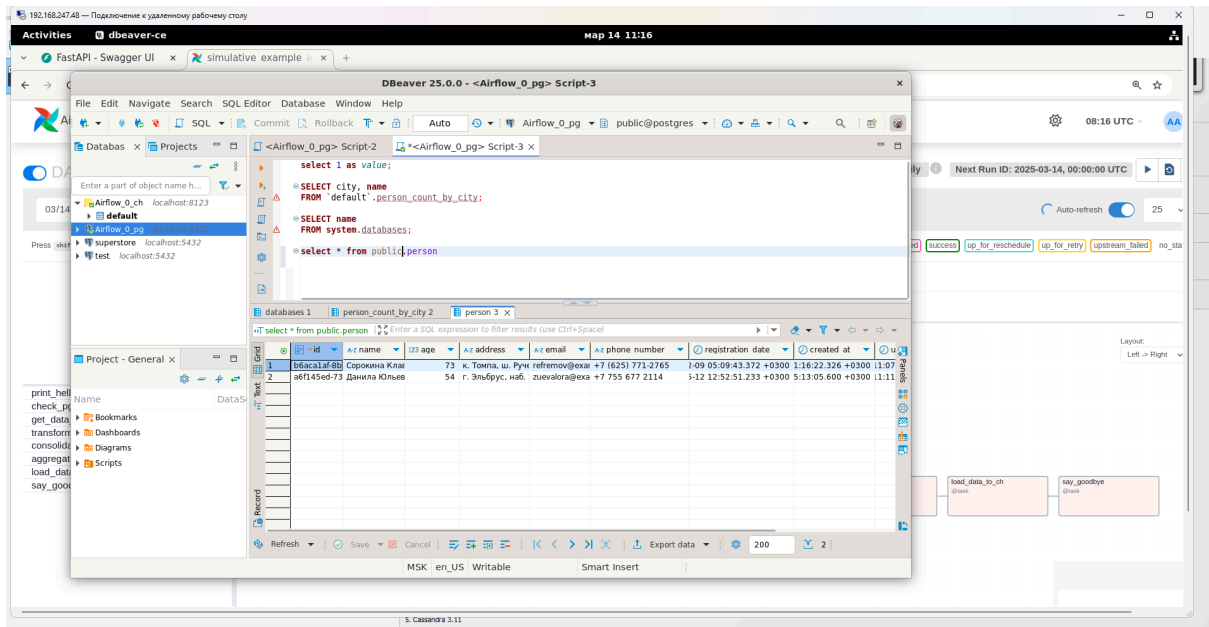
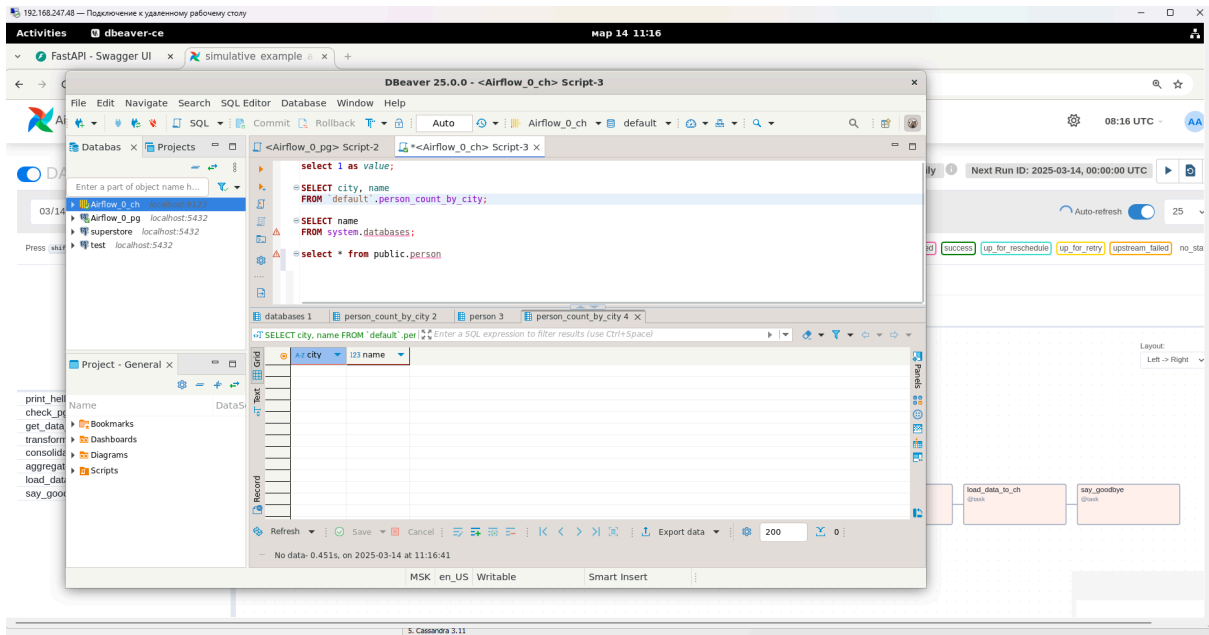
```
1 SHELL := /bin/bash
2 PY := .venv/bin/python
3
4 .PHONY: up-services down-services up-af down-af lint
5
6 lint:
7     pre-commit run --all-files
8     pre-commit run --all-files
9
10 up-services:
11     sudo docker compose -f docker-compose-services.yaml up -d --build
12
13 down-services:
14     sudo docker compose -f docker-compose-services.yaml down -v
15
16 up-af:
17     sudo docker compose -f docker-compose-af.yaml up -d --build
18
19 down-af:
20     sudo docker compose -f docker-compose-af.yaml down -v
21
```

The terminal at the bottom shows the output of the 'make up-services' command, displaying the creation and configuration of Docker containers for 'postgres', 'pgadmin', and 'pgadmin'.

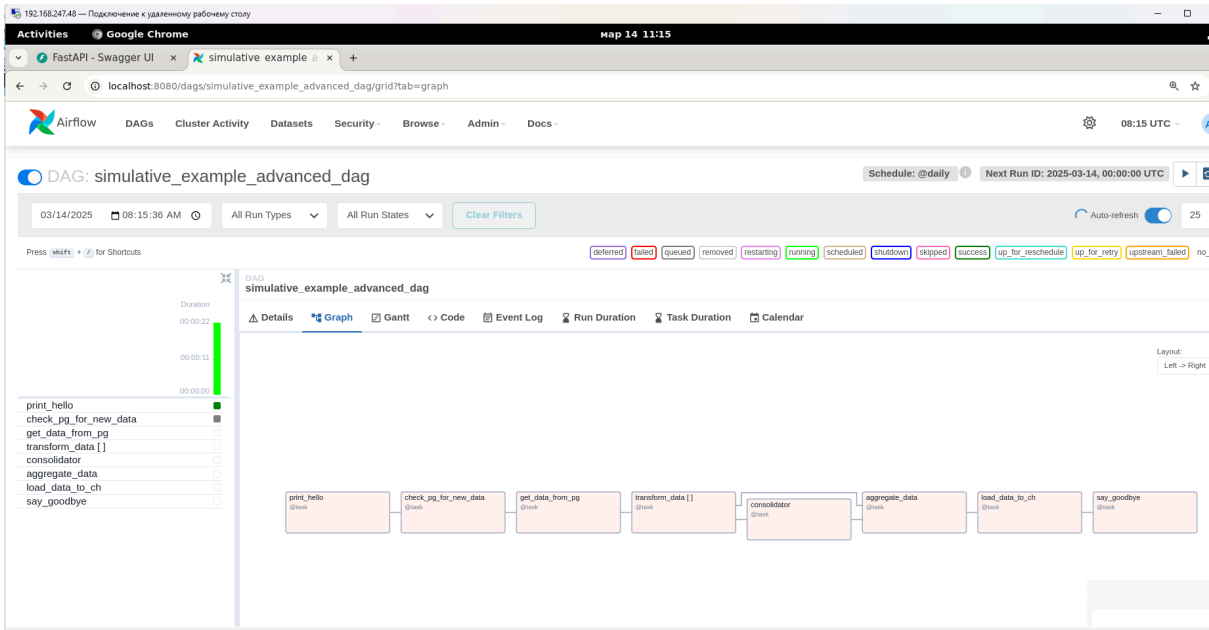
Проверка localhost:8080

The screenshot shows the Airflow web interface in Google Chrome. The URL bar shows 'localhost:8080/dags/simulative_example_advanced_dag/grid?dag_run_id=manual_2025-03-14T08:16:52.511111%2B00%3A00&tab=graph'. The interface displays the DAG 'simulative_example_advanced_dag' with a status of 'running'. The DAG is triggered by a manual run. The DAG's tasks are listed on the left: 'print_hello', 'check_pg_for_new_data', 'get_data_from_pg', 'transform_data []', 'consolidator', 'aggregate_data', 'load_data_to_ch', and 'say_goodbye'. The DAG's graph is shown on the right, with tasks connected by arrows. The DAG's details are shown at the bottom, including the DAG's ID, name, and the DAG's run ID.

Проверка подключения к бд через dbeaver



Проверка графов dag файлов



192.168.247.48 — Подключение к удаленному рабочему столу

Activities Google Chrome map 14 11:08

FastAPI - Swagger UI x simulative example b x +

localhost:8080/dags/simulative_example_basic_dag/grid?dag_run_id=manual__2025-03-14T08%3A06%3A34.470844%2B00%3A00&tab=graph

Airflow DAGs Cluster Activity Datasets Security Browse Admin Docs

Triggered simulative_example_basic_dag with new run id manual__2025-03-14T08:06:34.470844+00:00, it should start any moment now.

DAG: simulative_example_basic_dag Schedule: @daily Next Run ID: 2025-03-14, 00:00:00 UTC

03/14/2025 08:06:36 AM All Run Types All Run States Clear Filters Auto-refresh 25

Press **Shift** + **F** for Shortcuts

Duration 09:01:12

print_hello
read_data_from_faker_api_and_load_to_pg
read_data_from_faker_api
load_data_to_pg
say_goodbye

simulative_example_basic_dag Run 2025-03-14, 08:06:34 UTC

Details Graph Gantt Code Event Log

Layout Left → Right

print_hello success @task

read_data_from_faker_api_and_load_to_pg success

read_data_from_faker_api success @task

load_data_to_pg success @task

say_goodbye success @task

S. Cassandra 3.11

Oracle VM VirtualBox Менеджер 192.168.247.48 — Подключение к удаленному рабочему столу

localhost:8080/dags/simulative_example_basic_dag/grid?dag_run_id=manual__2025-03-14T08%3A06%3A34.470844%2B00%3A00&tab=graph

Airflow DAGs Cluster Activity Datasets Security Browse Admin Docs

Triggered simulative_example_basic_dag with new run id manual__2025-03-14T08:06:34.470844+00:00, it should start any moment now.

DAG: simulative_example_basic_dag Schedule: @daily Next Run ID: 2025-03-14, 00:00:00 UTC

03/14/2025 08:06:36 AM All Run Types All Run States Clear Filters Auto-refresh 25

Press **Shift** + **F** for Shortcuts

Duration 00:00:19

print_hello
read_data_from_faker_api_and_load_to_pg
read_data_from_faker_api
load_data_to_pg
say_goodbye

simulative_example_basic_dag Run 2025-03-14, 08:06:34 UTC

Details Graph Gantt Code Event Log

Layout Left → Right

print_hello running @task

read_data_from_faker_api_and_load_to_pg

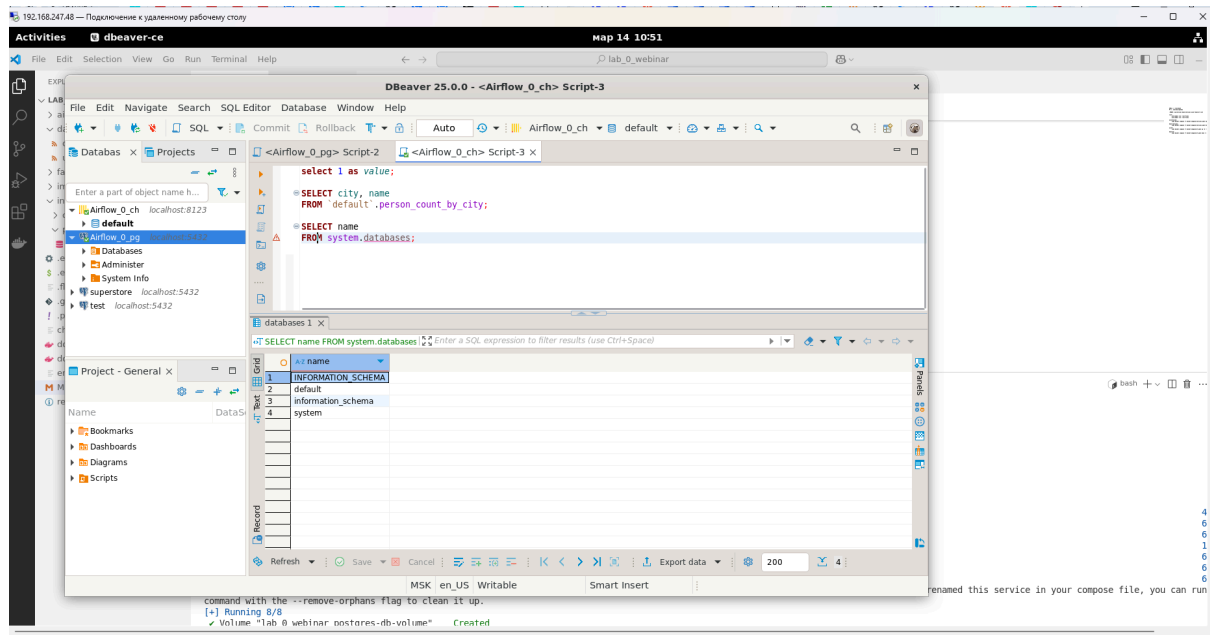
read_data_from_faker_api

load_data_to_pg

say_goodbye @task

S. Cassandra 3.11

Заполнение бд данными



Задание postgresql

Поиск наименьшего,наибольшего и среднего возраста людей

