

Nama : Kharisma Novi Chandramukti

Kelas/Batch : Data Engineering 4


Task 3

Part 2

1. Menjalankan docker compose -f docker-compose.yml up -d



```
(.venv) rismanovic@LAPTOP-U6L1FQ01:~/unit2/ingestion-data/ingestion_airbyte$ docker compose -f docker-compose.yml up -d
WARN[0000] The "APPLY_FIELD_SELECTION" variable is not set. Defaulting to a blank string.
WARN[0000] The "DEPLOYMENT_MODE" variable is not set. Defaulting to a blank string.
WARN[0000] The "FIELD_SELECTION_WORKSPACES" variable is not set. Defaulting to a blank string.
WARN[0000] The "JOB_ERROR_REPORTING_SENTRY_DSN" variable is not set. Defaulting to a blank string.
WARN[0000] The "LAUNCHDARKLY_KEY" variable is not set. Defaulting to a blank string.
WARN[0000] The "LOG_CONNECTOR_MESSAGES" variable is not set. Defaulting to a blank string.
WARN[0000] The "SECRET_PERSISTENCE" variable is not set. Defaulting to a blank string.
WARN[0000] The "GITHUB_STORE_BRANCH" variable is not set. Defaulting to a blank string.
WARN[0000] The "JOB_ERROR_REPORTING_SENTRY_DSN" variable is not set. Defaulting to a blank string.
WARN[0000] The "LAUNCHDARKLY_KEY" variable is not set. Defaulting to a blank string.
WARN[0000] The "NEW_SCHEDULER" variable is not set. Defaulting to a blank string.
WARN[0000] The "SECRET_PERSISTENCE" variable is not set. Defaulting to a blank string.
WARN[0000] The "WORKER_ENVIRONMENT" variable is not set. Defaulting to a blank string.
WARN[0000] The "CDK_VERSION" variable is not set. Defaulting to a blank string.
WARN[0000] The "DEPLOYMENT_MODE" variable is not set. Defaulting to a blank string.
WARN[0000] The "PYTHON_VERSION" variable is not set. Defaulting to a blank string.
WARN[0000] The "DEPLOYMENT_MODE" variable is not set. Defaulting to a blank string.
WARN[0000] The "DEPLOYMENT_MODE" variable is not set. Defaulting to a blank string.
WARN[0000] The "TEMPORAL_HISTORY_RETENTION_IN_DAYS" variable is not set. Defaulting to a blank string.
WARN[0000] The "UPDATE_DEFINITIONS_CRON_ENABLED" variable is not set. Defaulting to a blank string.
WARN[0000] /home/rismanovic/unit2/ingestion-data/ingestion_airbyte/docker-compose.yml: 'version' is obsolete
[+] Running 99/11
  ✓ webapp Pulled                                231.2s
  ✓ airbyte.cron Pulled                          1891.4s
  ✓ bootloader Pulled                          1726.5s
  ✓ airbyte-api-server Pulled                   1308.1s
  ✓ airbyte-temporal Pulled                    2286.9s
  ✓ postgres Pulled                            358.8s
  ✓ server Pulled                              951.0s
  ✓ airbyte-proxy Pulled                       89.0s
  ✓ airbyte-connector-builder-server Pulled     1724.7s
  ✓ db Pulled                                  346.5s
  ✓ worker Pulled                              2356.0s
```

```
[+] Running 22/22
  ✓ Network ingestion_airbyte_internal Created 0.1s
  ✓ Network ingestion_airbyte_postgres-network Created 0.1s
  ✓ Network ingestion_airbyte_public Created 0.1s
  ✓ Network ingestion_airbyte_default Created 0.1s
  ✓ Volume "airbyte_db" Created 0.0s
  ✓ Volume "airbyte_workspace" Created 0.0s
  ✓ Volume "airbyte_data" Created 0.0s
  ✓ Container ingestion_airbyte Started 2.3s
  ✓ Container airbyte-db Started 2.4s
  ✓ Container init Exited 3.0s
  ✓ Container ingestion_airbyte_master Started 2.3s
  ✓ Container airbyte-temporal Started 2.4s
  ✓ Container airbyte-bootloader Exited 14.5s
  ✓ Container ingestion_airbyte_manager Started 2.8s
  ✓ Container airbyte-worker Started 15.8s
  ✓ Container airbyte-connector-builder-server Started 15.8s
  ✓ Container airbyte-cron Started 15.7s
  ✓ Container airbyte-server Started 15.8s
  ✓ Container airbyte-webapp Started 15.8s
  ✓ Container airbyte-api-server Started 15.8s
  ✓ Container ingestion_airbyte-citus-worker-1 Started 3.6s
  ✓ Container airbyte-proxy Started 16.6s
(.venv) rismanovic@LAPTOP-U6L1FQ01:~/unit2/ingestion-data/ingestion_airbyte$
```

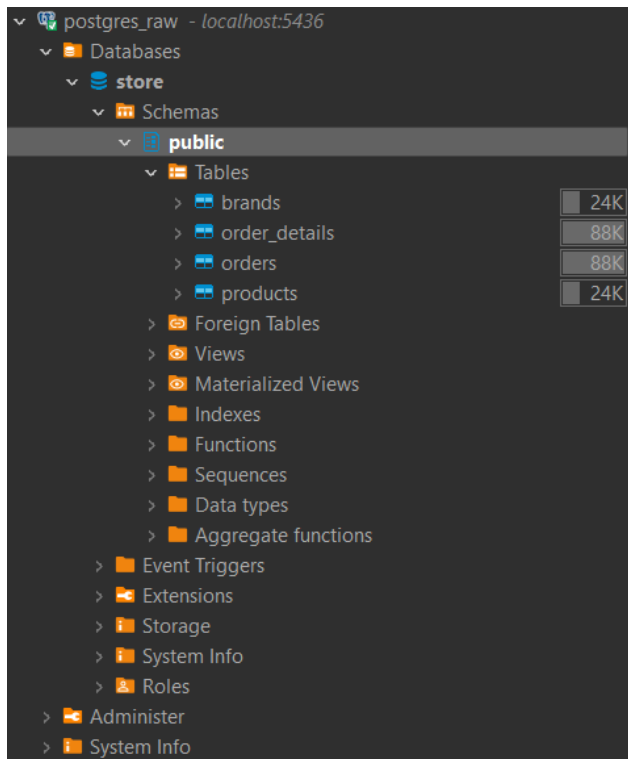
 >  ingestion_airbyte

Running (13/1)

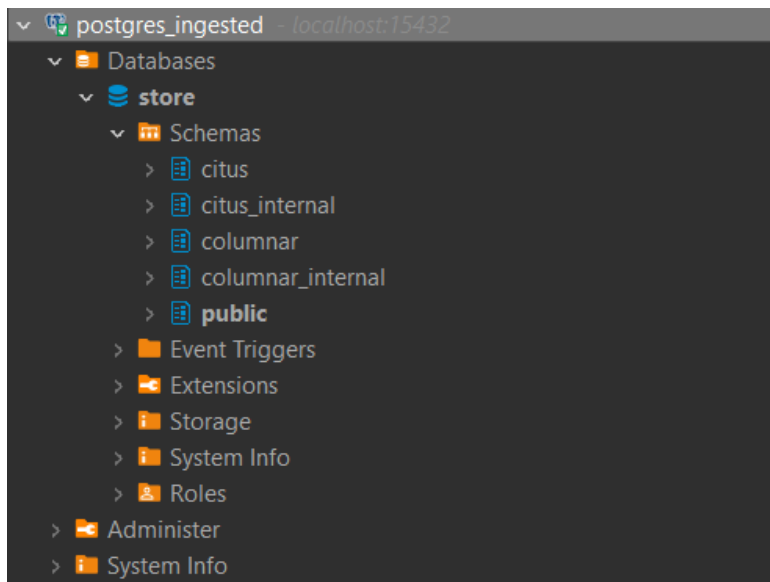
18.53% 1 minute ago

2. Membuat connection pada DBeaver



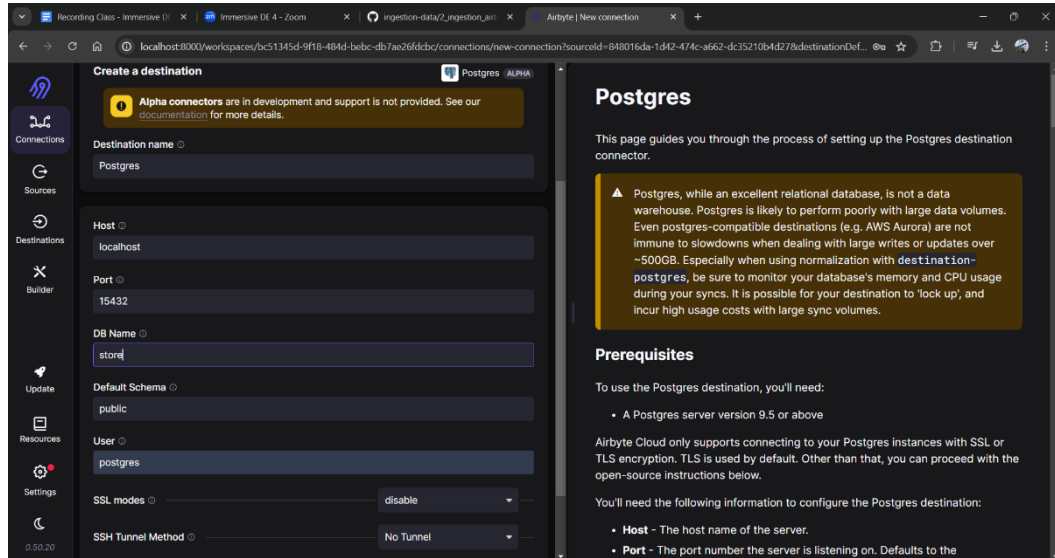
Untuk ingested menggunakan citus :



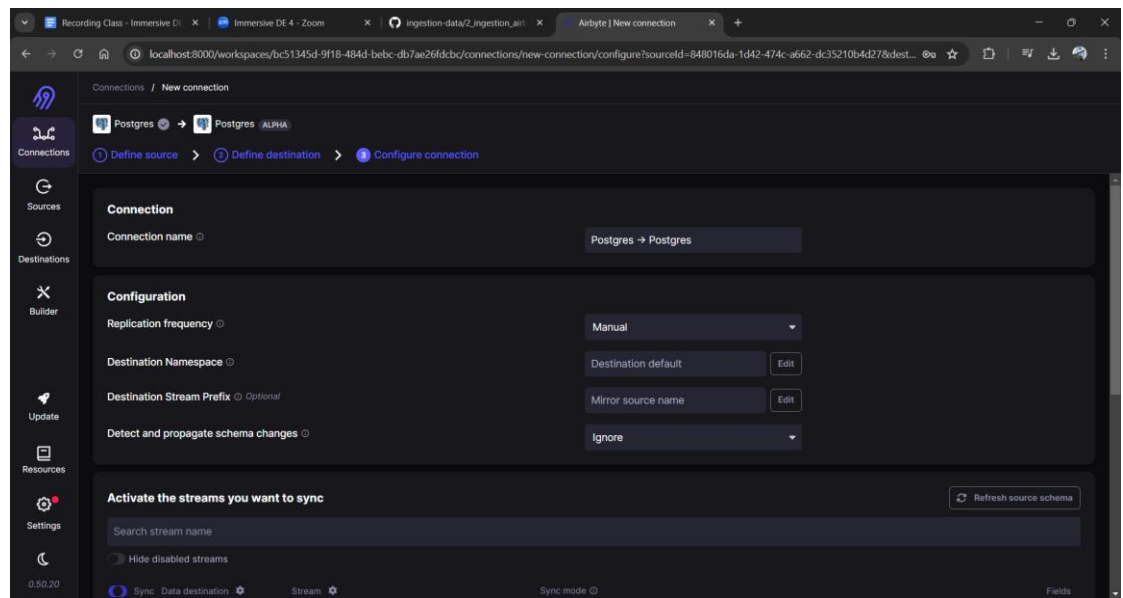
3. Memindahkan data yang terdapat pada database postgres_raw ke database postgres_ingested

a. Menjalankan localhost:8000

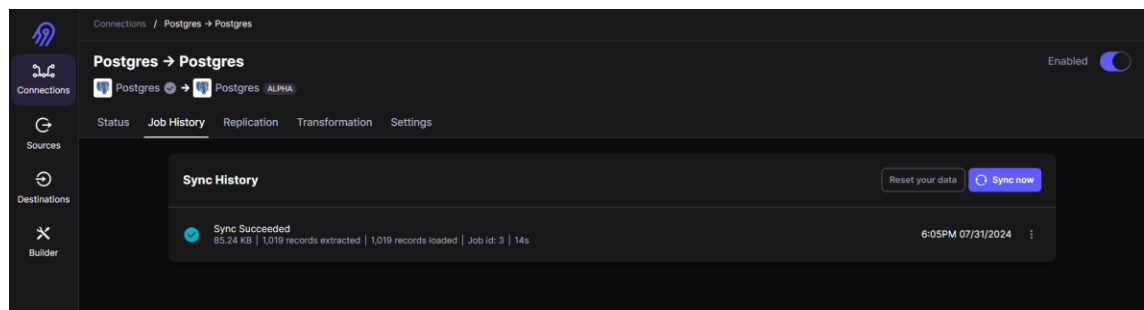
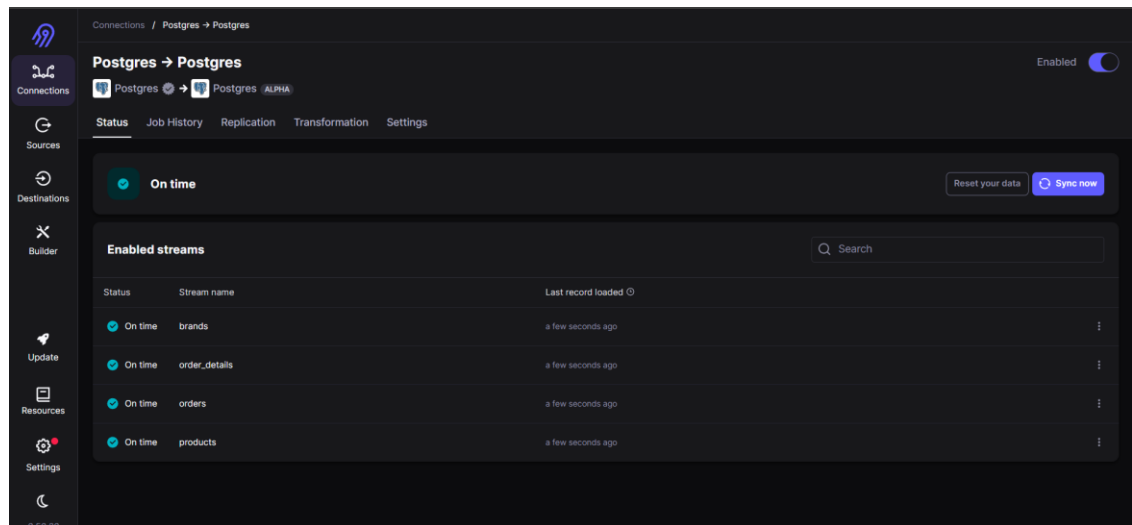
- Define destination



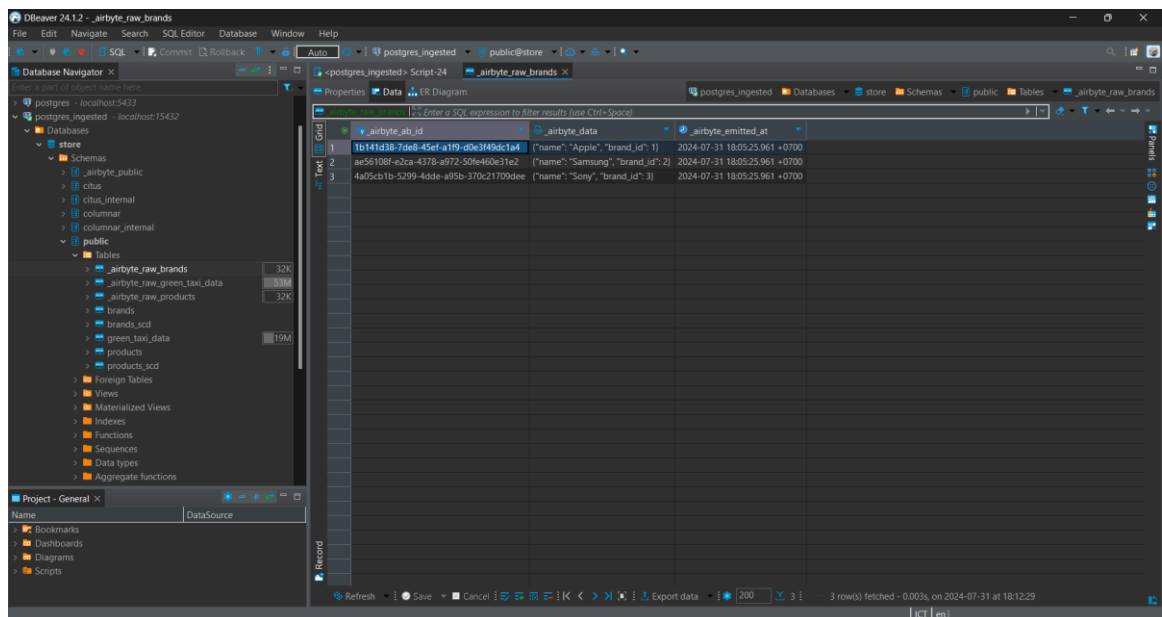
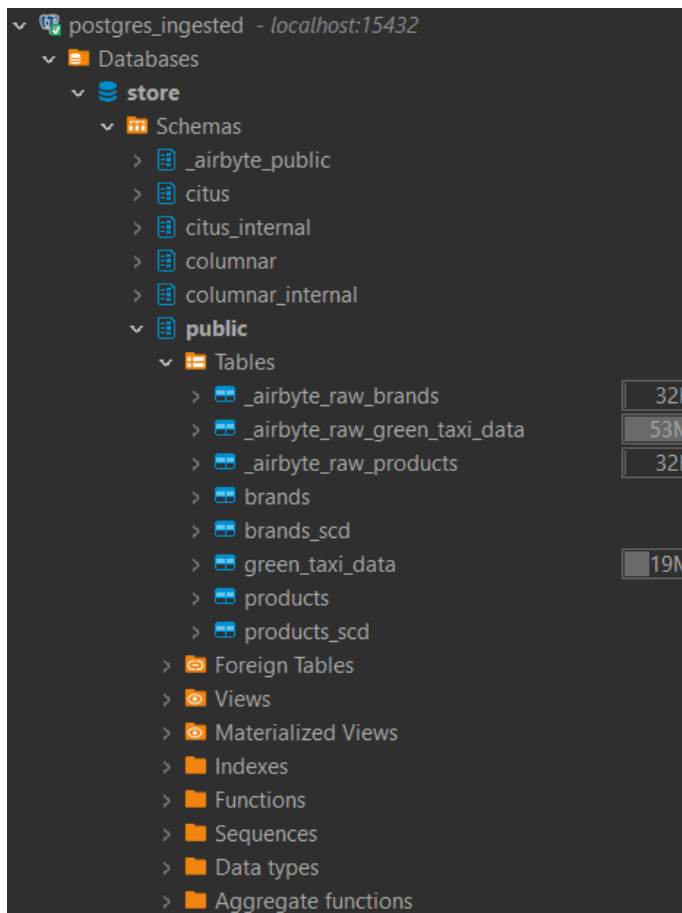
- Configure connection



c. Mengaktifkan data destination



4. Memindahkan data dari postgres_raw ke postgres_ingested



DBEaver 21.12 - airbyte_raw_green_taxi_data

File Edit Navigate Search SQL Editor Database Window Help

Auto postgres_ingested public@store

Database Navigator X

Enter a part of object name here

postgres - localhost:5432

Databases

store

Schemas

airbyte_public

citius

citius_internal

columnar

columnar_internal

public

Tables

airbyte_raw_brands 32K

airbyte_raw_green_taxi_data 53M

airbyte_raw_products 32K

brands

brands_scd

green_taxi_data 19M

products

products_scd

Foreign Tables

Views

Materialized Views

Indexes

Functions

Sequences

Data types

Aggregate functions

Project - General X

Name DataSource

Bookmarks

Dashboards

Diagrams

Scripts

Properties Data ER Diagram

postgres_ingested Databases store Schemas public Tables airbyte_raw_green_taxi_data

12: Enter a SQL expression to filter results (use Ctrl+Space)

airbyte_ab_id airbyte_data airbyte_emitted_at

1 4bb4483e-7099-40d8-8614-60623eeb7bbe ['extra': 1.0, 'mta_tax': 0.5, 'VendorID': 2, 'ehail_fee': null, 'trip_type': 1.0, 'RatecodeID': 1.0, 'tip_amount': 0.0, 'fa' 2024-07-31 17:42:54.000 +0700

2 e0918086-02c6-487b-9557-14c8deeaec93 ['extra': 1.0, 'mta_tax': 0.5, 'VendorID': 2, 'ehail_fee': null, 'trip_type': 1.0, 'RatecodeID': 1.0, 'tip_amount': 0.0, 'fa' 2024-07-31 17:42:54.000 +0700

3 b6742dc5-951e-4412-966a-1c023b702d36 ['extra': 1.0, 'mta_tax': 0.5, 'VendorID': 2, 'ehail_fee': null, 'trip_type': 1.0, 'RatecodeID': 1.0, 'tip_amount': 0.0, 'fa' 2024-07-31 17:42:54.000 +0700

4 5903695-3b6a-429f-a8b2-7f63ac2b2b0 ['extra': 1.0, 'mta_tax': 0.5, 'VendorID': 2, 'ehail_fee': null, 'trip_type': 1.0, 'RatecodeID': 1.0, 'tip_amount': 0.0, 'fa' 2024-07-31 17:42:54.000 +0700

5 261731c2-f662-46d0-b258-7dff39284cec ['extra': 1.0, 'mta_tax': 0.5, 'VendorID': 2, 'ehail_fee': null, 'trip_type': 1.0, 'RatecodeID': 1.0, 'tip_amount': 0.0, 'fa' 2024-07-31 17:42:54.000 +0700

6 efd3f6ee-49d2-4b9f-b022-bb2b223ef39 ['extra': 1.0, 'mta_tax': 0.5, 'VendorID': 2, 'ehail_fee': null, 'trip_type': 1.0, 'RatecodeID': 1.0, 'tip_amount': 0.0, 'fa' 2024-07-31 17:42:54.000 +0700

7 98855276-bbdf-46d0-8460-e2aec00b23c9 ['extra': 0.0, 'mta_tax': 0.0, 'VendorID': 2, 'ehail_fee': null, 'trip_type': 2.0, 'RatecodeID': 5.0, 'tip_amount': 1.0, 'fa' 2024-07-31 17:42:54.000 +0700

8 6ba0274b-0d05-47f1-960e-16469f4f4a45 ['extra': 1.0, 'mta_tax': 0.5, 'VendorID': 2, 'ehail_fee': null, 'trip_type': 1.0, 'RatecodeID': 1.0, 'tip_amount': 0.0, 'fa' 2024-07-31 17:42:54.000 +0700

9 df696893-5d6d-43c3-a0b0-ae4b3f6a29a9 ['extra': 1.0, 'mta_tax': 0.5, 'VendorID': 2, 'ehail_fee': null, 'trip_type': 1.0, 'RatecodeID': 1.0, 'tip_amount': 3.32, 'fa' 2024-07-31 17:42:54.000 +0700

10 9d9092ca-e09d-4a0b-8001-b775ba24e88 ['extra': 0.0, 'mta_tax': 0.0, 'VendorID': 2, 'ehail_fee': null, 'trip_type': 2.0, 'RatecodeID': 5.0, 'tip_amount': 0.0, 'fa' 2024-07-31 17:42:54.000 +0700

11 e0d4d279-023a-490b-987a-e667cef00b15 ['extra': 0.0, 'mta_tax': 0.0, 'VendorID': 2, 'ehail_fee': null, 'trip_type': 2.0, 'RatecodeID': 5.0, 'tip_amount': 0.0, 'fa' 2024-07-31 17:42:54.000 +0700

12 3c83aee7-9e0d-4c2c-92c3-8f3fed52a9e7 ['extra': 1.0, 'mta_tax': 0.5, 'VendorID': 2, 'ehail_fee': null, 'trip_type': 1.0, 'RatecodeID': 1.0, 'tip_amount': 0.0, 'fa' 2024-07-31 17:42:54.000 +0700

13 84490057-df58-4c37-b6d7-ee7d69582943 ['extra': 1.0, 'mta_tax': 0.5, 'VendorID': 2, 'ehail_fee': null, 'trip_type': 1.0, 'RatecodeID': 1.0, 'tip_amount': 0.0, 'fa' 2024-07-31 17:42:54.000 +0700

14 27cfd63c-d8a4-421f-bb6b-307379fddc5b ['extra': 1.0, 'mta_tax': 0.5, 'VendorID': 2, 'ehail_fee': null, 'trip_type': 1.0, 'RatecodeID': 1.0, 'tip_amount': 2.18, 'fa' 2024-07-31 17:42:54.000 +0700

15 7cc698f3-0c56-4a7e-b502-678a6abdc99 ['extra': 1.0, 'mta_tax': 0.5, 'VendorID': 2, 'ehail_fee': null, 'trip_type': 1.0, 'RatecodeID': 1.0, 'tip_amount': 0.0, 'fa' 2024-07-31 17:42:54.000 +0700

16 e9cdad82-627d-4af5-a821-c6e97d31a95f ['extra': 0.5, 'mta_tax': 1.5, 'VendorID': 1, 'ehail_fee': null, 'trip_type': 1.0, 'RatecodeID': 1.0, 'tip_amount': 0.0, 'fa' 2024-07-31 17:42:54.000 +0700

17 f7435a8f-eac9-4c86-8c77-d7614f61aac ['extra': 0.5, 'mta_tax': 1.5, 'VendorID': 1, 'ehail_fee': null, 'trip_type': 1.0, 'RatecodeID': 1.0, 'tip_amount': 3.3, 'fa' 2024-07-31 17:42:54.000 +0700

18 30d6b652-5860-44e7-aca1-63cdd0ebaf9 ['extra': 0.0, 'mta_tax': 0.0, 'VendorID': 2, 'ehail_fee': null, 'trip_type': 2.0, 'RatecodeID': 5.0, 'tip_amount': 0.0, 'fa' 2024-07-31 17:42:54.000 +0700

19 2350b7b6-d5d6-4d21-8c22-8f0fa5e127a5 ['extra': 1.0, 'mta_tax': 0.5, 'VendorID': 2, 'ehail_fee': null, 'trip_type': 1.0, 'RatecodeID': 1.0, 'tip_amount': 0.05, 'fa' 2024-07-31 17:42:54.000 +0700

20 08ca13a7-707a-45a1-8c4d-5c078c108a80 ['extra': 1.0, 'mta_tax': 1.0, 'VendorID': 1, 'ehail_fee': null, 'trip_type': 1.0, 'RatecodeID': 3.0, 'tip_amount': 0.0, 'fa' 2024-07-31 17:42:54.000 +0700

21 e6371029-226e-4ab3-8897-a1c7a9303106 ['extra': 3.35, 'mta_tax': 1.5, 'VendorID': 1, 'ehail_fee': null, 'trip_type': 1.0, 'RatecodeID': 1.0, 'tip_amount': 0.0, 'fa' 2024-07-31 17:42:54.000 +0700

22 ffed31a1-4e08-40e6-9a2b-1b457d6a76db ['extra': 1.0, 'mta_tax': 0.5, 'VendorID': 2, 'ehail_fee': null, 'trip_type': 1.0, 'RatecodeID': 1.0, 'tip_amount': 0.0, 'fa' 2024-07-31 17:42:54.000 +0700

23 5695dad8-7aa9-4b41-b20a-825de0b66c3c ['extra': 0.0, 'mta_tax': 0.0, 'VendorID': 1, 'ehail_fee': null, 'trip_type': 2.0, 'RatecodeID': 5.0, 'tip_amount': 0.0, 'fa' 2024-07-31 17:42:54.000 +0700

24 ebdcc133-8000-457a-a88e-256ddab1304 ['extra': 0.0, 'mta_tax': 0.0, 'VendorID': 1, 'ehail_fee': null, 'trip_type': 2.0, 'RatecodeID': 5.0, 'tip_amount': 0.0, 'fa' 2024-07-31 17:42:54.000 +0700

25 4310206d-8255-455c-9f7a-c3db102568f1 ['extra': 1.0, 'mta_tax': 0.5, 'VendorID': 2, 'ehail_fee': null, 'trip_type': 1.0, 'RatecodeID': 1.0, 'tip_amount': 0.0, 'fa' 2024-07-31 17:42:54.000 +0700

26 b1b31589-6179-4c9a-a330-e6a9d205092e ['extra': 0.0, 'mta_tax': 0.0, 'VendorID': 2, 'ehail_fee': null, 'trip_type': 1.0, 'RatecodeID': 1.0, 'tip_amount': 2.0, 'fa' 2024-07-31 17:42:54.000 +0700

27 35e2494-2c64-4577-83c8-1fb5cd83183d ['extra': 1.0, 'mta_tax': 0.5, 'VendorID': 2, 'ehail_fee': null, 'trip_type': 1.0, 'RatecodeID': 1.0, 'tip_amount': 0.0, 'fa' 2024-07-31 17:42:54.000 +0700

28 1bee2b7f-5ecb-4e24-9281-86b3fca5d2e ['extra': 1.0, 'mta_tax': 0.5, 'VendorID': 2, 'ehail_fee': null, 'trip_type': 1.0, 'RatecodeID': 1.0, 'tip_amount': 1.0, 'fa' 2024-07-31 17:42:54.000 +0700

29 fd6fc63-0338-4041-8e81-05f6d58f34 ['extra': 1.0, 'mta_tax': 0.5, 'VendorID': 2, 'ehail_fee': null, 'trip_type': 1.0, 'RatecodeID': 1.0, 'tip_amount': 0.0, 'fa' 2024-07-31 17:42:54.000 +0700

30 d7fad3ca-0bda-4ebf-9fa1-a63d1cc9cbb ['extra': 1.0, 'mta_tax': 0.5, 'VendorID': 2, 'ehail_fee': null, 'trip_type': 1.0, 'RatecodeID': 1.0, 'tip_amount': 0.0, 'fa' 2024-07-31 17:42:54.000 +0700

31 14ab729a-0d49-413e-a0b9-8eacd7df6ff9 ['extra': 1.0, 'mta_tax': 0.5, 'VendorID': 2, 'ehail_fee': null, 'trip_type': 1.0, 'RatecodeID': 1.0, 'tip_amount': 0.0, 'fa' 2024-07-31 17:42:54.000 +0700

Refresh Save Cancel SQL SQL Editor Database Window Help

200 rows fetched - 0.012s (0.001s fetch), on 2024-07-31 at 18:13:14

ICT en

DBEaver 21.12 - airbyte_raw_products

File Edit Navigate Search SQL Editor Database Window Help

Auto postgres_ingested public@store

Database Navigator X

Enter a part of object name here

postgres - localhost:5432

Databases

store

Schemas

airbyte_public

citius

citius_internal

columnar

columnar_internal

public

Tables

airbyte_raw_brands 32K

airbyte_raw_green_taxi_data 53M

airbyte_raw_products 32K

brands

brands_scd

green_taxi_data 19M

products

products_scd

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Project - General X

Name DataSource

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Properties Data ER Diagram

postgres_ingested Databases store Schemas public Tables airbyte_raw_products

12: Enter a SQL expression to filter results (use Ctrl+Space)

airbyte_ab_id airbyte_data airbyte_emitted_at

1 6199e605-942f-477f-a705-417a2e01b562 ['name': 'iPhone 13', 'price': 799.99, 'brand_id': 1, 'product_id': 1] 2024-07-31 18:05:25.961 +0700

2 054c88b6-cd59-4277-936a-3821eae246d0 ['name': 'MacBook Pro', 'price': 1299.99, 'brand_id': 1, 'product_id': 2] 2024-07-31 18:05:25.961 +0700

3 484d453c-3aeb-40c2-802f-5dd187b0808d ['name': 'Galaxy S21', 'price': 699.99, 'brand_id': 2, 'product_id': 3] 2024-07-31 18:05:25.961 +0700

4 6a2d0d9a-01b1-4cfe-84a9-17bca245ccd ['name': 'PlayStation 5', 'price': 499.99, 'brand_id': 3, 'product_id': 4] 2024-07-31 18:05:25.961 +0700

Refresh Save Cancel SQL SQL Editor Database Window Help

4 row(s) fetched - 0.001s, on 2024-07-31 at 18:13:41

ICT en

The screenshot displays the DBeaver 24.1.2 application window. The top menu bar includes File, Edit, Navigate, Search, SQL Editor, Database, Window, and Help. The Database Navigator on the left shows a connection to 'postgres - localhost:5432' with a tree view of the database structure, including 'public' and 'postgres_ingested' schemas. The main window shows a table view of 'airbyte_raw_green_taxi_data' from the 'postgres_ingested' database. The table has columns: 'dolocationid', 'ratecodeid', 'fare_amount', 'congestion_surcharge', 'lpep_pickup_datetime', 'lpep_dropoff_datetime', 'vendorid', 'lpep_pickup_datetime', and 'chall_fee'. The table is filtered by 'ratecodeid = 1'. The status bar at the bottom indicates '200 rows fetched - 0.00% (0.004 fetch)' and 'on 2024-07-31 at 18:14:17'.