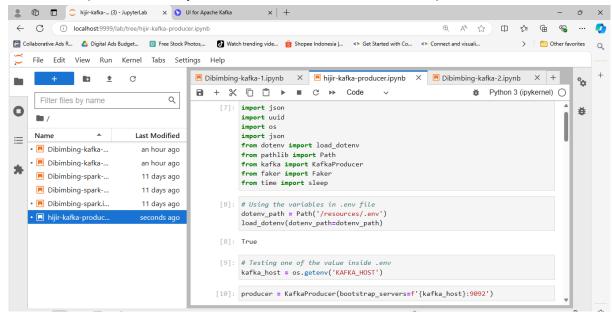
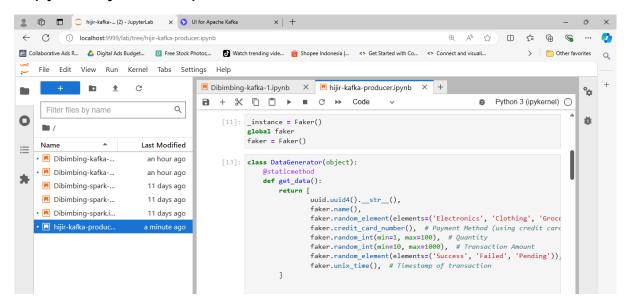
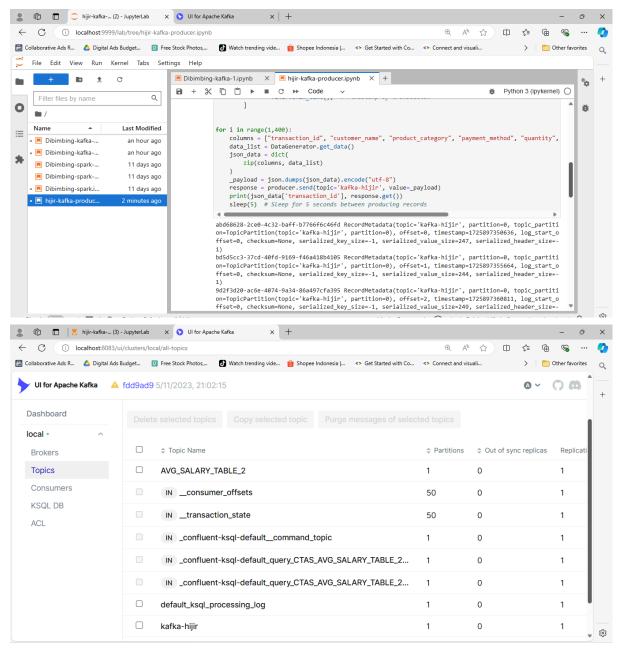
Homework - Kafka - Hijir

Without setup new docker - just in case the new docker kafka setup fails



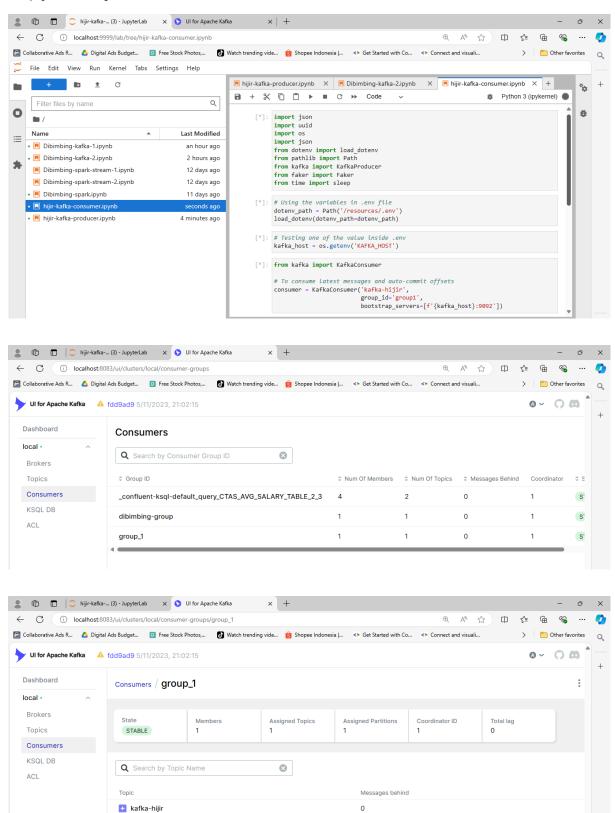
Jupyter 'hijir-kafka-producer"

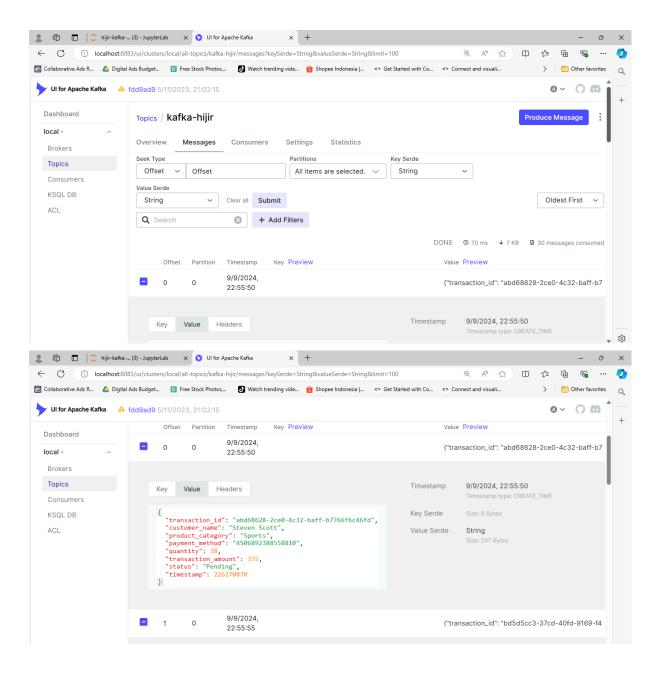




Event sudah terkirim ke kafka (kafka-hijir)

Jupyter "hijir-kafka-consumer"





Ksqldb

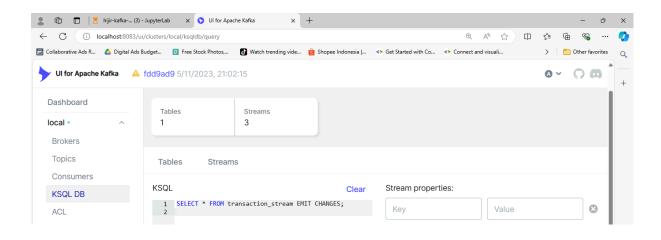
Melakukan agregrasi di kafka menggunakan sql

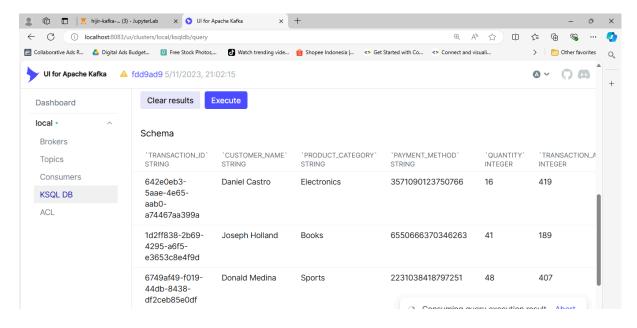
```
CREATE STREAM transaction_stream (
    transaction_id VARCHAR,
    customer_name VARCHAR,
    product_category VARCHAR,
    payment_method VARCHAR,
    quantity INT,
    transaction_amount INT,
    status VARCHAR,
    timestamp BIGINT
) WITH (
```

```
KAFKA TOPIC = 'kafka-hijir',
                                        VALUE FORMAT = 'JSON'
);
   $\limins$ \bigcap \bi
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ⊕ A<sup>N</sup> ☆ □ ☆ @ ※ … 
            \leftarrow \quad \bigcirc \quad \bigcirc \quad \bigcirc \quad \text{localhost:} 8083/\text{ui/clusters/local/ksqldb/query}
         🛅 Collaborative Ads R... 💧 Digital Ads Budget... 🔟 Free Stock Photos,... 😈 Watch trending vide... 🔞 Shopee Indonesia |... <> Get Started with Co... <> Connect and visuali... > 📋 Other favorites 🔾
           0 · () (0)
                  Dashboard
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Execute KSQL Request
                                                                                                                                 KSQL DB
                  local •
                                                                                                                                    Tables
                                                                                                                                                                                                                                   Streams
                      Topics
                      Consumers
                   KSQL DB
                                                                                                                                    Tables Streams
                       ACL
                                                                                                                                     KSQL
                                                                                                                                                                                                                                                                                                                                                                                                                                          Stream properties:
                                                                                                                                    1 * CREATE STREAM transaction stream (
transaction_id VARCHAR,
customer_name VARCHAR,
product_category VARCHAR,
payment_method VARCHAR,
quantity INT,
transaction_mmount INT,
status VARCHAR,
timestemp BIGINT
11 KAFKA_TOPIC = 'kafka-hijir',
VALUE_FORMAT = 'JSON'
13 );
                                                                                                                                                                                                                                                                                                                                                                                                                                                Key
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             (3)
    $\ \tilde{\mathbb{C}} \ \tilde{\mathbb{C}} \ \tilde{\mathbb{K}} \ \tilde{\mathbb{H}} \ \tilde{\mathbb{H}} \ \tilde{\mathbb{H}} \ \tilde{\mathbb{M}} \ \tild
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           \leftarrow \quad \texttt{C} \quad \text{(i)} \quad \textbf{localhost:} 8083/\textbf{ui/clusters/local/ksqldb/query}
        🖺 Collaborative Ads R... 🛕 Digital Ads Budget... 🛽 Free Stock Photos,... 🐧 Watch trending vide... 🔞 Shopee Indonesia J... 💠 Get Started with Co... 💠 Connect and visuali... 🗦 🖺 Other favorites 🔾
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     0 · 0 m
           8 status VARCHAR,
9 timestamp BIGINT
10 * MITH (
11 KAFKA TOPIC = 'kafka-hijir',
12 VALUE_FORMAT = 'JSON'
13 );
                  Dashboard
                      Brokers
                  KSQL DB
                       ACL
                                                                                                                             Clear results Execute
                                                                                                                             Status
```

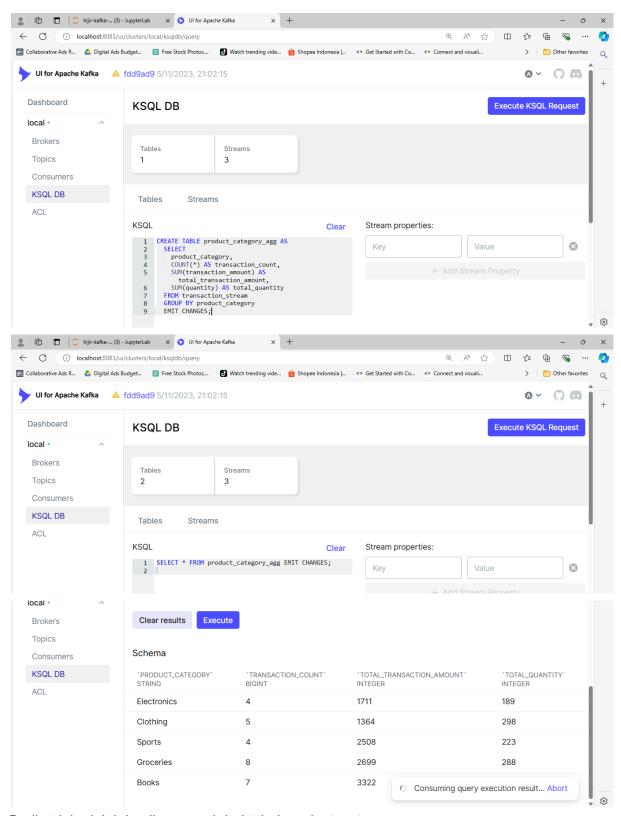
Berhasil membuat stream

SUCCESS





Agregasi



Berikut ini adalah hasil agregasi dari tabel product_category