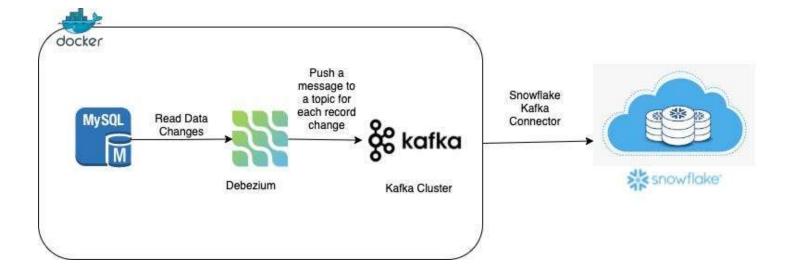
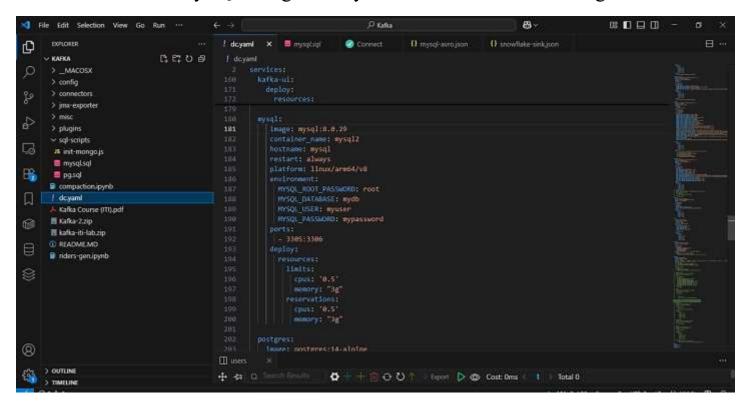
Kafka Workshop By Moataz Gamal Ali

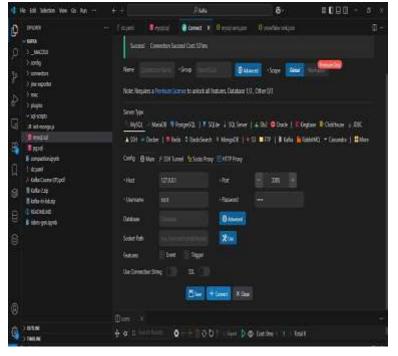
Data Engineering Zagazig Track

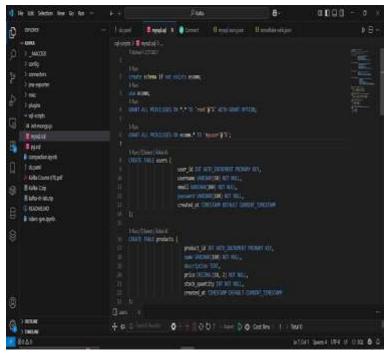


1. Un-commented MySQL image from yaml file and build the file again



2. Connect to MySQL container from localhost and create the database and insert values in each table using script in /sql-scripts/mysql.sql file





3. Used the json configuration file inside the connectors folder to configure the connection from mysql databse.

```
(i) README.MD
                                    1 mysql-avro.json × 1 snowflake-sink.json
                                                                                 ☐ order_items
                                                                                                     mysal.sal
                                                                                                                                   □ …
connectors > mysql > {} mysql-avro.json > {} config > m key.converter
            "name": "mysql-avro-connector",
            "config": {
                "connector.class": "io.debezium.connector.mysql.MySqlConnector",
                "database.hostname": "mysql2",
                "database.port": "3306",
"database.user": "root",
                "database.password": "root",
                "database.server.id": "18405",
                "database.include.list": "ecomm",
                "topic.prefix": "kafka-workshop
                "key.converter": "org.apache.kafka.connect.json.JsonConverter",
                "key.converter.schema.registry.url": "<a href="http://schema-registry:8081"">http://schema-registry:8081</a>",
                "value.converter": "io.confluent.connect.avro.AvroConverter",
                "value.converter.schema.registry.url": "http://schema-registry:8081",
                "schema.history.internal.kafka.bootstrap.servers": "broker:29092",
                "schema.history.internal.kafka.topic": "ecomm.schemahistory",
                "include.schema.changes": "true",
                "event.processing.failure.handling.mode": "ignore",
                "transforms": "unwrap",
                "transforms.unwrap.type": "io.debezium.transforms.ExtractNewRecordState",
                "transforms.unwrap.drop.tombstones": false,
                "time.precision.mode":"connect
```

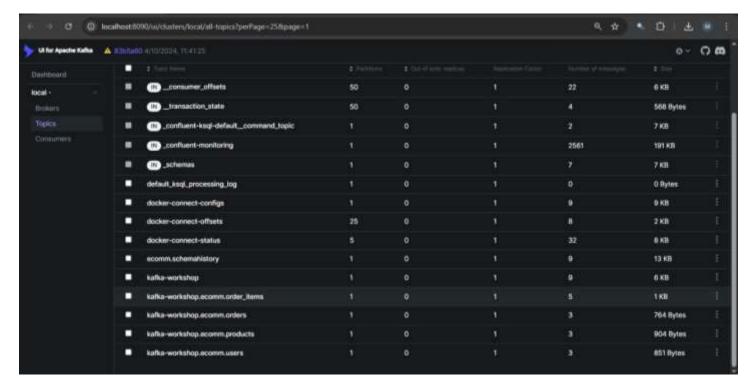
4. Downloaded the snowflake sink connector and put it inside the plugins, made my sink connector "snowflake" configurations and put it in connectors.

```
(i) README.MD
                 ! dc.yaml
                                 {} mysql-avro.json
                                                     mysql.sql =
                                                                                                                        □ ...
connectors > snowflake > {} snowflake-sink.json > {} config
         "name": "snowflake-sink-ecomm",
         "config": {
          "connector.class": "com.snowflake.kafka.connector.SnowflakeSinkConnector",
           "tasks.max": "1",
          "topics.regex": "kafka-workshop.*",
           "snowflake.url.name": "YREDIGW-DB28773.snowflakecomputing.com",
           "snowflake.user.name": "MOATAZGAMAL710",
           "snowflake.private.key": "MIIEvAIBADANBgkqhkiG9w0BAQEFAASCBKYwggSiAgEAAoIBAQDKhzsGk5lLGwX3Fl9HjLJVU(
           "snowflake.database.name": "NOSQL_ECOMM",
           "snowflake.schema.name": "PUBLIC",
           "snowflake.stage.name": "KAFKA_STAGE",
           "snowflake.role.name": "ACCOUNTADMIN",
           "buffer.count.records": "500",
           "buffer.size.bytes": "5000000",
           "buffer.flush.time": "60",
           "key.converter": "org.apache.kafka.connect.json.JsonConverter",
           "key.converter.schemas.enable": "false",
```

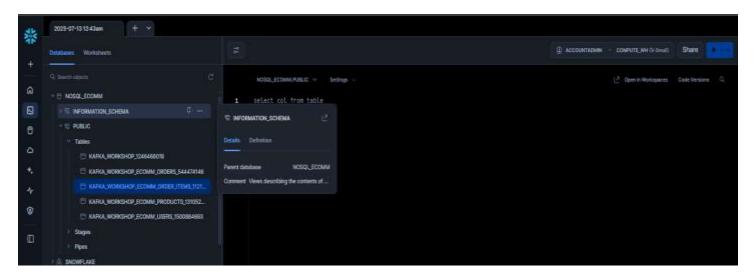
5. Configured the key pair that used for authentication for snowflake using the snowflake document with rsa.

6. Run the commands for the connectors and checked that they are running

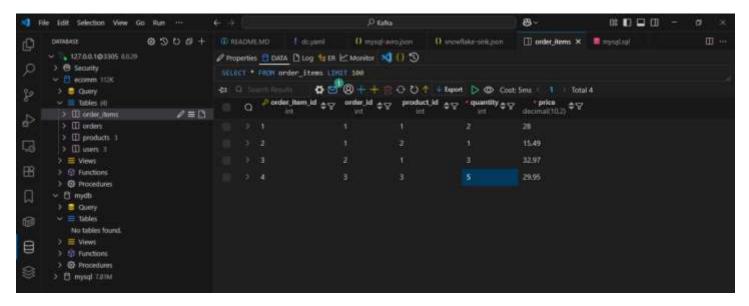
7. Checking Kafka topics



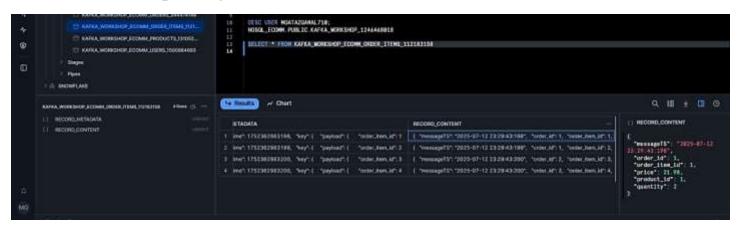
8. Checking created tables on snowflake



9. updating a record in order item table – Changing the price to 28



10. Price before updating is 21.90 on snowflake



11. Price after updating is 28

