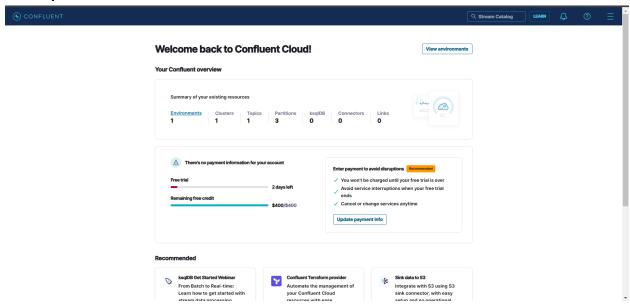
#### # download restaurant data from below mentioned link

#### Download Data Link ->

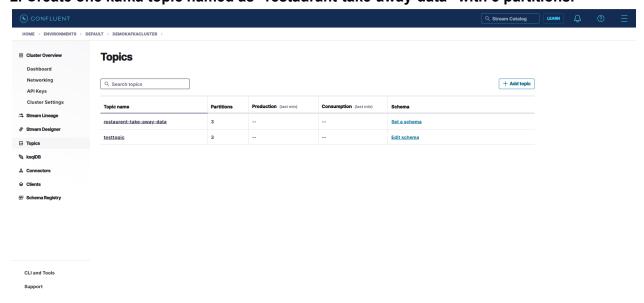
https://github.com/shashank-mishra219/Confluent-Kafka-Setup/blob/main/restaurant\_ord ers.csv

Complete the given below task to finish this assignment.

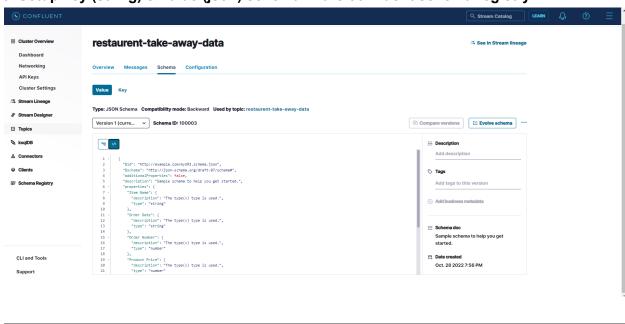
### 1. Setup Confluent Kafka Account

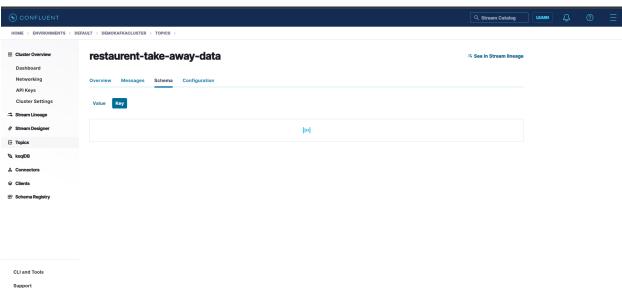


2. Create one kafka topic named as "restaurant-take-away-data" with 3 partitions.



3. Setup key (string) & value (json) schema in the confluent schema registry.



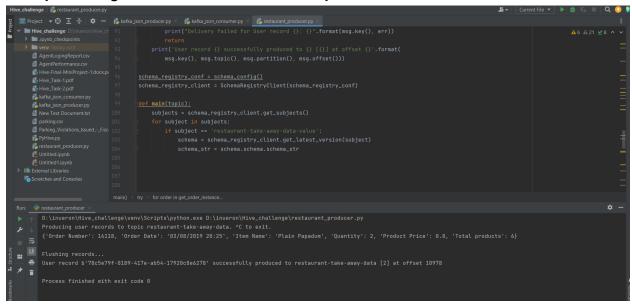


4. Write a kafka producer program (python or any other language) to read data records from restaurant data csv file,

make sure schema is not hardcoded in the producer code, read the latest version of schema and schema\_str from schema registry and use it for data serialization.

```
#Project v @ Z ÷ $\frac{1}{2} = $\frac{1}{2} \text{staruant_producer.py} \times \text{ starts_jon_producer.py} \times \text{ starts_jon_producer.p
```

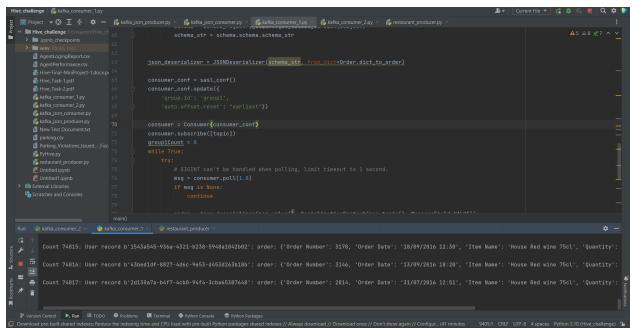
5. From producer code, publish data in Kafka Topic one by one and use dynamic key while publishing the records into the Kafka Topic



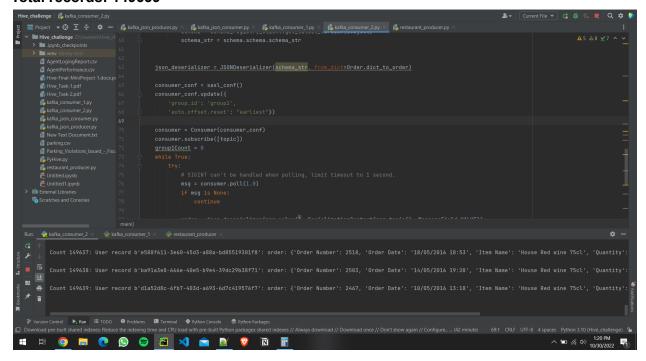
6. Write kafka consumer code and create two copies of same consumer code and save it with different names (kafka\_consumer\_1.py & kafka\_consumer\_2.py), again make sure latest schema version and schema\_str is not hardcoded in the consumer code, read it automatically from the schema registry to deserialize the data. Now test two scenarios with your consumer code:

a.) Use "group.id" property in consumer config for both consumers and mention different group\_ids in kafka\_consumer\_1.py & kafka\_consumer\_2.py, apply "earliest" offset property in both consumers and run these two consumers from two different terminals. Calculate how many records each consumer consumed and printed on the terminal

# Kafka\_consumer\_1 Total records: 74817



### Kafka\_consumer\_2 Total records: 149639

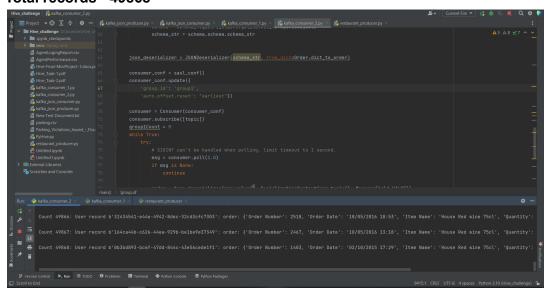


b.) Use "group.id" property in consumer config for both consumers and mention same group\_ids in kafka\_consumer\_1.py & kafka\_consumer\_2.py,

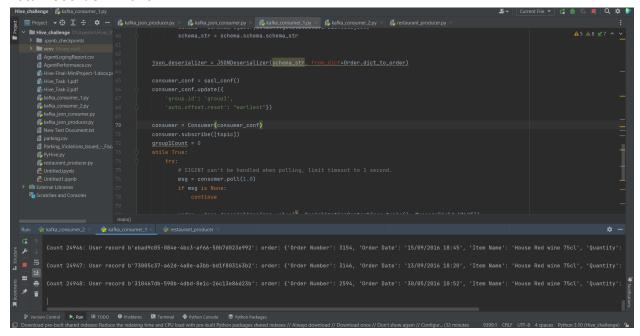
apply "earliest" offset property in both consumers and run these two consumers from two different terminals. Calculate how many records each consumer consumed and printed on the terminal

Kafka\_consumer\_2

Total records - 49868



## Kafka\_consumer\_1 Total records - 24948



7. Once above questions are done, write another kafka consumer to read data from kafka topic and from the consumer code create one csv file "output.csv" and append consumed records output.csv file

Solution attached in githu