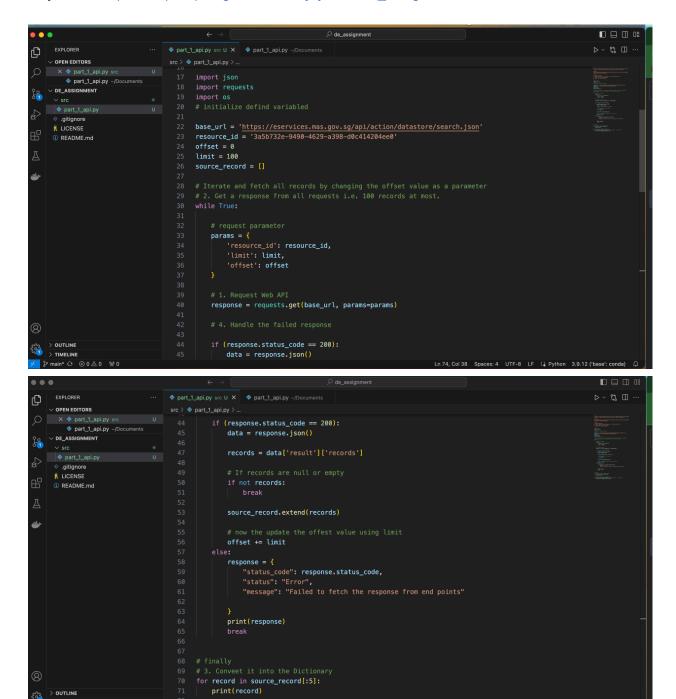
#### PART 1: FETCH RECORD AND CONVERT INTO THE DICTIONARY

Project Code (GitHub): <a href="https://github.com/ajay9889/de\_assignment/">https://github.com/ajay9889/de\_assignment/</a>

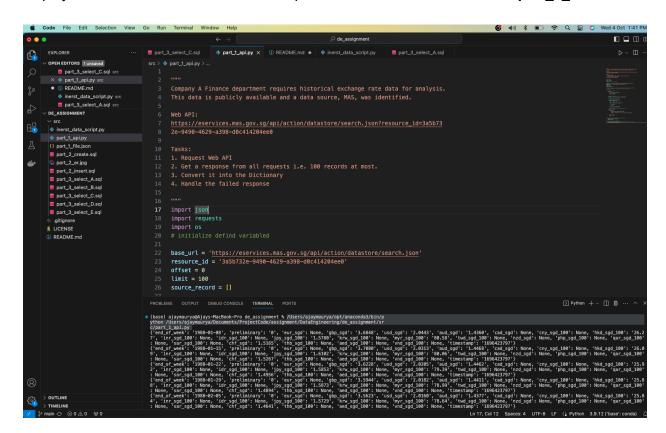


### **Response Handl:**

```
$# finally display on console first 5 records only
for record in source_record[:5]:
print(record)

# or if we want to save into the file
with open(os.path.join(os.getcwd(), 'src/part_1_file.json'), 'w+') as
fp:
fp.write(json.dumps(source_record))
```

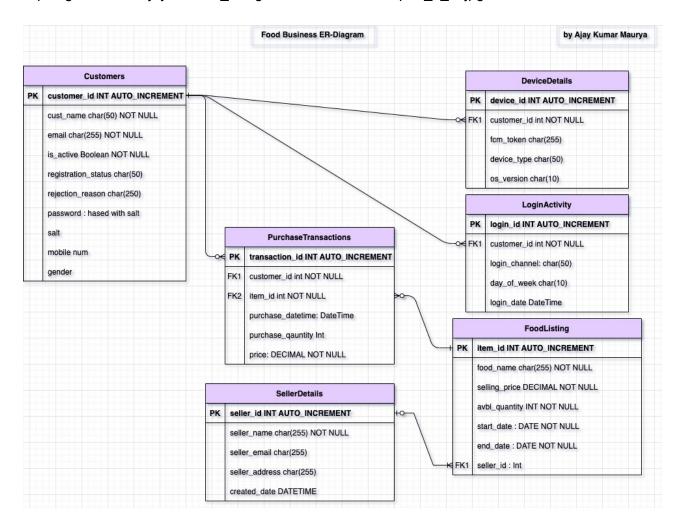
Display 5 records on the console and dump data into the file in same src/part 1 file folder



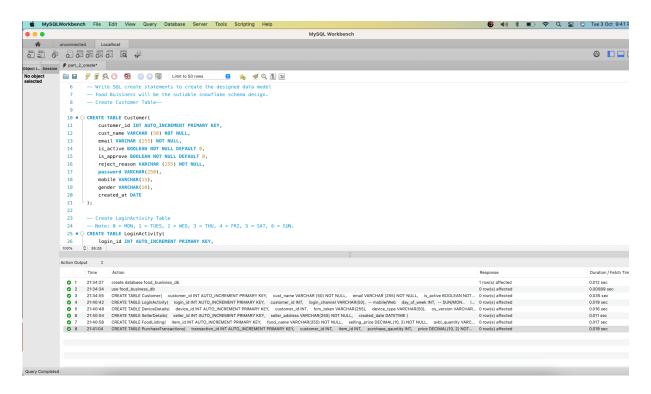
PART 2: Data Modeling, Creating Table and Insert Required Data into the respective Tables.

### Created ER-Diagram:

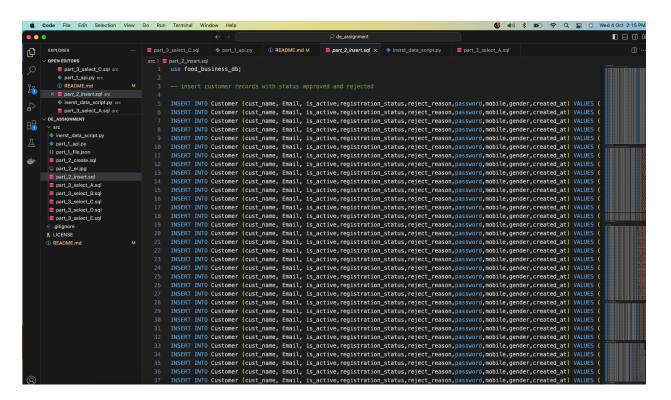
https://github.com/ajay9889/de\_assignment/blob/main/src/part\_2\_er.jpg



Accordingly, run the create Tables command to create all required tables based on the above ER diagram in MySQL WorkBench.



## Create "part\_2\_insert.sql"



# **Overview Summary and Running the Application Local Machine:**

The project is uploaded on GitHub in a public repository.

- > https://github.com/ajay9889/de\_assignment
- > Open it into the Visual Studio Code for Running the Python Script

```
# API Integrations and DataModeling.
Technical project for analysis.
# part 1 api.py
Company A's Finance department requires historical exchange rate data
for analysis.
This data is publicly available and a data source, MAS, was
identified.
 src/part 1 api.py
How to run the Applications:
 Install Python by going to the official website >
https://www.python.org/downloads/.
 Verify the installation using command> python3 --version
 Run the App by using the command > python3 src/part 1 api.py
# Part 2: Data Modeling for Food Business
![alt
text] (https://github.com/ajay9889/de_assignment/blob/main/src/part_2
<u>er.jpq</u>)
```

```
# Create the Table
 Install MySQL WorkBench
 Create Database
 Run all CREATE TABLE Command which is mentioned in the file
src/part 2 create.sql
 Insert required data with respect to each created table > run
insert query one by one in the file src/part 2 insert.sql
# Part 3: Business Insight
A. How many accounts are pending approval, approved and rejected?
src/part 3 select A.sql
B. What are the total logins and purchases for each account?
src/part 3 select B.sql
C. How many accounts have purchases by the following buckets? In
percentage.
> src/part 3 select C.sql
D. What is the third most purchased item in terms of quantity?
> src/part 3 select D.sql
E. Which day (Mon - Sun) have the highest logins? If there are draws,
to provide all.
 src/part 3 select E.sql
```