



assignment 5

Using MySQL and Express to create an application to manage Customers and orders.

Customer contains:

- id.
- first name.
- last name.
- email.
- phone.

Order contains:

- id.
- customer id.
- order date.
- order items => array of {productid, quantity, unit price}
- total amount.

Product Contains:

- id.
- product name.
- category.
- unit price.

Customer APIs:

- 1- sign up (customer must be unique).
- 2- login.

Product APIs:

- 1- add product.
- 2- API to find the total revenue generated by each category of products.
- 3- API to find the total number of items sold for each product.

Order APIs:

- 1- Create order.
- 2- API to calculate the average order value.
- 3- Write a query to list all customers who have not made any orders.
- 4- API to find the customer who has purchased the most items in total.
- 5- API to list the top 10 customers who have spent the most money.
- 6- API to list all customers who have made at least 5 orders.
- 7- API to find the percentage of customers who have made more than one order.
- 8- API to find the customer who has made the earliest order.