Module 11: Database Integration with Python

Assignment

1. Create a database called retails.
2. Connect to the newly created database and create tables called customer and orders.
3. Add a new ‘is_sale’ column in ‘orders’ table.
4. Insert values into the customer table and display the contents.

   (1001, 34, 'Austin', 'male'),(1002, 37, 'Houston', 'male'),(1003, 25, 'Austin', 'female'),(1004, 28, 'Houston', 'female'),(1005, 22, 'Dallas', 'male')
5. Show the details of customers who are located in Austin City.
6. Group customers based on location and display the information.
7. Group customers based on their gender and display the information.
8. Insert values into the orders table and display the contents.

   ('2022-10-1', 100.25, 1),('2022-10-2',200.75, 2),('2022-10-3',500.00,3),('2022-10-3', 600.00,4),('2022-10-4', 600.00,5)
9. Show order details that were purchased on 2022-10-03.
10. Show orders that have an order amount of more than 300.
11. Show all orders placed on 2022-10-03 and represent it in sorted form with respect to the amount spent.
12. Count the number of distinct days in the data.
13. Count the orders grouped by date.
14. Calculate the average order amount for all days.