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44-560 Advanced Topics in Database Systems

Assignment 07: Advanced SQL

- Use the `createTables.sql` script to create the tables required for this assignment
- Answer the questions below with queries in a `.sql` file
- Indicate the question you are answering in a comment above the answer, and include non-executable answers as comments

1. Insert at least 6 customers, 6 POS representatives, 6 contacts, 5 states, 6 addresses, 3 orders, 10 products and 10 POLine items.
2. Display the total amount for each order.
3. Write a Cartesian product query for the Customer and the Contact_Details tables.
4. Price for product 'Pepsi' has been discounted, change the price for the product 'Pepsi' to 2.50.
5. Display the cust_firstName, cust_lastName, mobileNumber and emailId.

6. Display the productName, price for each item in the POLine table using JOIN and sort the data in a descending order of the product names.

7. Write a query to demonstrate intersect set operator. Make sure you have at least 5 records in your output.

8. Write a query to demonstrate the union set operator. Make sure you have at least 5 records in your output.

9. What is the difference between Cartesian product and Full Outer Join? Write a query to justify your answer.

10. Answer the below questions on subqueries and correlated subqueries based on the following query:

```sql
select *
from product product1 where product1.price <
(select avg(price)
from product product2
where product2.productID = product1.productID);
```

- 10a: Is it a correlated or non-correlated subquery? Why?
- 10b: If the product table has 10 rows, how many times will the subquery be executed?

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