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UIT2311 – Database Technology Lab *Assignment – 3*		*Assigned: 14-Nov-22* *Due: 2 Lab Hours*
Title: Advanced DML – using Joins, Sub queries, Set Operations		

Pizza Ordering System

Consider the following relations for Pizza Ordering System:

CUSTOMER (*cust_id*, cust_name, address, phone)

PIZZA (pizza_id, pizza_type, unit_price)

ORDERS (order_no, cust_id, order_date, delv_date)

ORDER_LIST (order_no, pizza_id, qty)

a) Draw schema diagram for Pizza database.

b) Create tables with appropriate data types and integrity constraints in order to populate tables from the ***Pizza_DB.sql*** file***.***

c) Include constraint : The quantity ordered for a pizza cannot be null.

Write the following using JOIN:

1. For each pizza, display the total quantity ordered by the customers.
2. Find the pizza type(s) that is not delivered on the ordered day.
3. Display the number of order(s) placed by each customer whether or not he/she placed the order.
4. Find the pairs of pizzas such that the ordered quantity of first pizza type is more than the second for the order OP100.

Write the following using Sub query:

5. Display the details (order number, pizza type, customer name, qty) of the pizza with ordered quantity more than the average ordered quantity of pizzas.
6. Find the customer(s) who ordered for more than one pizza type in each order.
7. Display the details (order number, pizza type, customer name, qty) of the pizza with ordered quantity more than the average ordered quantity of each pizza type.

8. Display the details (order number, pizza type, customer name, qty) of the pizza with ordered quantity more than the average ordered quantity of its pizza type. (Use correlated)
9. Display the customer details who placed all pizza types in a single order.

   Write the following using Set Operations:

10. Display the order details that contains the pizza quantity more than the average quantity of any of *Pan* or *Italian* pizza type.
11. Find the order(s) that contains *Pan* pizza but not the *Italian* pizza type.
12. Display the customer(s) who ordered both *Italian* and *Grilled* pizza type.

What you have to submit:

1. Schema Diagram with constraints
2. Demo script file