

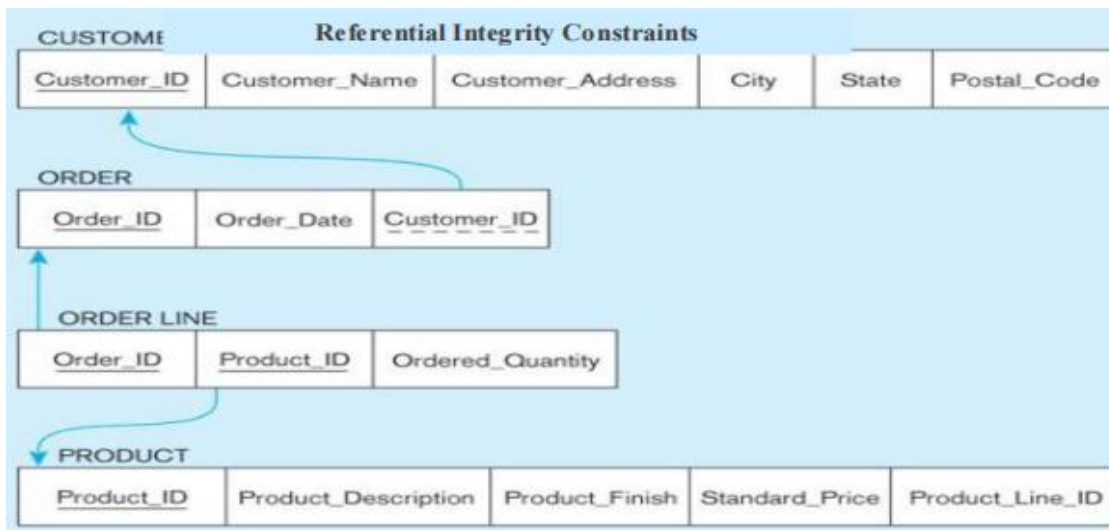
INSTITUTE OF FINANCE MANAGEMENT



FCIM

CSU/ITU07208: DATABASE SYSTEMS MANAGEMENT, PROJECT#5 PRODUCT_CATALOG_DB, DUE 08-12/05,2023

1. Establish a group of no more than three individuals.
2. Reserve the given relational database schema into ER diagram, and use drawing tools (i.e. MS Visio, Star UML, or any to draw an ER diagram)
3. Use the DDL CREATE table to create the database tables from the provided database schema, and provide appropriate data types based on the given sample data.
4. Please name your database as “**PRODUCT_CATALOG_DB_PROJECT # 5**”(followed by your group). It must be saved in Access format



5. Use the DML INSERT command to populate these four tables, and consider the sample data provided below. Data must be inserted appropriately as per the table definition
6. Apply SQL SELECT statements for each of the following natural queries,

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- Q1) Show the product id and product finish for all products sorted descending by product finish
 - Q2) Show each product_line_id and the total number of products for the product_line_id
 - Q3) Show product_id and description for all products which contain a substring of "table".
 - Q4) Show dates and how many orders were received on each day
 - Q5) Display the id and name of each customer who placed an order, including his or her order number

- Q6) Assemble all information necessary to create an invoice for order number 100
- Q7) Show all customers who have placed an order in the database
- Q8) Show all orders that include furniture finished in natural ash
- Q9) Show the order ID and product descriptions for each order line
- Q10) Show customer name and order date when the customer placed an order, sorted by order date.
- Q11) Show customer name, order date, and the order total amount in dollars in each order, sorted by descending order date
- Q12) Show names of customers who placed more than one order, and also show the total number of orders placed by each of the customers
- Q13) List of product ID and description and the number of times each product has been ordered for the products that were ordered.
- Q14) Use the DML UPDATE command to change product_description from 'Duplex Table Lamp' to 'Arch Table Lamp',
- Q15) Show the customer name and the total dollar amount ordered for each customer who has placed the order.
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7. Sample data

CUSTOMER_T

```
Insert into CUSTOMER_T values (1, 'John Doe', '392 Sunset Blvd.', 'New York', 'NY', '10059');
Insert into CUSTOMER_T values (2, 'Mary Smith', '6900 Main St.', 'San Francisco', 'CA', '94032');
Insert into CUSTOMER_T values (3, 'Richard Newman', '2040 Riverside Rd.', 'San Diego', 'CA', '92010');
Insert into CUSTOMER_T values (4, 'Cathy Cook', '4010 Speedway', 'London', 'UK', '85719');
```

ORDER_T

```
Insert into ORDER_T (Order_ID, Order_date, Customer_ID) values (100, '01-OCT-12', 1);
Insert into ORDER_T (Order_ID, Order_date, Customer_ID) values (101, '01-OCT-12', 2);
Insert into ORDER_T (Order_ID, Order_date, Customer_ID) values (102, '02-OCT-12', 3);
Insert into ORDER_T values (103, '03-OCT-12', 2);
Insert into ORDER_T values (104, '10-OCT-12', 1);
Insert into ORDER_T values (105, '10-OCT-12', 4);
Insert into ORDER_T values (106, '10-OCT-12', 2);
Insert into ORDER_T values (107, '10-OCT-12', 1);
```

PRODUCT_T

```
Insert into PRODUCT_T values (1000, 'Office Desk', 'Cherry', 95.0, 10);
Insert into PRODUCT_T values (1001, 'Manager's Desk', 'Red Oak', 199.0, 10);
Insert into PRODUCT_T values (2000, 'Office Chair', 'Cherry', 75.0, 20);
Insert into PRODUCT_T values (2001, 'Manager's Desk', 'Natural Oak', 129.0, 20);
Insert into PRODUCT_T values (3000, 'Book Shelf', 'Natural Ash', 35.0, 30);
Insert into PRODUCT_T values (3001, 'Duplex Book Shelf', 'White Ash', 80.0, 30);
Insert into PRODUCT_T values (4000, 'Table Lamp', 'Natural Ash', 15.0, 40);
Insert into PRODUCT_T values (4001, 'Duplex Table Lamp', 'White Ash', 40.0, 40);
```

ORDER_LINE_T

```
Insert into ORDER_LINE_T values (100, 4000, 1);
Insert into ORDER_LINE_T values (101, 1000, 2);
Insert into ORDER_LINE_T values (101, 2000, 2);
Insert into ORDER_LINE_T values (102, 3000, 1);
Insert into ORDER_LINE_T values (102, 2000, 1);
Insert into ORDER_LINE_T values (103, 4001, 1);
Insert into ORDER_LINE_T values (104, 2000, 1);
Insert into ORDER_LINE_T values (105, 3001, 2);
Insert into ORDER_LINE_T values (106, 3000, 1);
Insert into ORDER_LINE_T values (106, 4000, 1);
Insert into ORDER_LINE_T values (107, 4001, 1);
```
