

Test 2

T-SQL and PL/SQL

Q1. Write CREATE TABLE commands for the following table descriptions:

[15]

<u>CLIENT_MASTER</u>			<u>PRODUCT_MASTER</u>			<u>SALESMAN_MASTER</u>		
CLIENTNO	vc2(6)	PK & Must start with 'C'	PRODUCTNO	vc2(6)	PK & Must start with 'P'	SALESMANNO	vc2(6)	PK & Must start with 'S'
NAME	vc2(20)	NOT NULL	DESCRIPTION	vc2(15)	NOT NULL	SALESMANNAME	vc2(20)	NOT NULL
ADDRESS1	vc2(30)		PROFITPERC	n(4,2)	NOT NULL	ADDRESS1	vc2(30)	NOT NULL
ADDRESS2	vc2(30)		UNITMEASURE	vc2(10)	NOT NULL	ADDRESS2	vc2(30)	
CITY	vc2(15)		QTYONHAND	n(8)	NOT NULL	CITY	vc2(20)	
PINCODE	n(8)		REORDERLVL	n(8)	NOT NULL	PINCODE	n(8)	
STATE	vc2(15)		SELLPRICE	n(8,2)	NOT NULL & can't be 0	State	vc2(20)	
BALDUE	n(10,2)		COSTPRICE	n(8,2)	NOT NULL & can't be 0	SALAMT	n(8,2)	NOT NULL & Can't be 0
						TGTTGET	n(6,2)	NOT NULL
						YTDsales	n(6,2)	NOT NULL
						REMARKS	vc2(60)	
<u>SALES_ORDER</u>			<u>SALES_ORDER_DETAILS</u>					
ORDERNO	vc2(6)	PK & Must start with 'O'	ORDERNO	vc2(6)	FK to SALES_ORDER			
CLIENTNO	vc2(6)	FK to CLIENT_MASTER	PRODUCTNO	vc2(6)	FK to PRODUCT_MASTER			
ORDERDATE	date		QTYORDERED	n(8)				
DELYADDR	vc2(25)		QTYDISP	n(8)				
SALESMANNO	vc2(6)	FK to SALESMAN_MASTER	PRODUCTRATE	n(10,2)				
DELYTYPE	char(1)	Check 'P' or 'F'	Create Composite PRIMARY KEY of ORDERNO and PRODUCTNO					
BILLEDYN	char(1)	Check 'Y' or 'N'						
DELYDATE	date							
ORDERSTATUS	vc2(10)	Check 'In Process' or 'Fulfilled' or 'Backorder' or 'Cancelled'						

Sample Insert Commands

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INSERT INTO Client_Master (ClientNo, Name, City, PinCode, State, BalDue) VALUES ('C00001', 'Ivan Bayross', 'Mumbai', 400054, 'Maharashtra', 15000);
INSERT INTO Product_Master VALUES ('P00001', 'T-Shirts', 5, 'Piece', 200, 50, 350, 250);
INSERT INTO Salesman_Master VALUES ('S00001', 'Aman', 'A/14', 'Worli', 'Mumbai', 400002, 'Maharashtra', 3000, 100, 50, 'Good');
INSERT INTO Sales_Order (OrderNo, OrderDate, ClientNo, DelType, BilledYn, SalesmanNo, DelDate, OrderStatus)
VALUES('O19001', '12-june-02', 'C00001', 'F', 'N', 'S00001', '20-july-02', 'In Process');
INSERT INTO Sales_Order_Details (OrderNo, ProductNo, QtyOrdered, QtyDisp, ProductRate) VALUES('O19001', 'P00001', 4, 4, 525);

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Answer following queries with the help of above schema :

[10]

1. Display the names of all the clients.	6. Change the selling price of '1.44 drive' to Rs. 1150.50.
2. Display all the clients who are located in Mumbai.	7. Delete the record of client_no C0005.
3. Display all the products whose selling price is > 2000 and < 5000.	8. Display the clients who stay in a city whose second letter is 'a'.
4. Display Name, City and State of Clients not in the state of Maharashtra.	9. Count the number of products having price greater than or equal to 1500.
5. Display all the information of client_no C0001 and C0002.	10. Display qtyordered, qtydisp and balancedqty (not in table).

Write Commands to do following

[10]

Define in 1 or 2 lines and give one example also

[10]

1. Make Client_no as primary key in client_master.	1. Recursive Relationship.
2. Add a new column phone_no in the client_master table.	2. Composite key.
3. Add the not null constraint in the product_master table with the column description, profit percent, sell price and cost price.	3. The 'like' operator with pattern matching.
4. Change size of name column to 60 in client_master table.	4. Drop Table command.
5. Remove pincode column from table.	5. Full Outer Join.

Write queries for following descriptions: (Joins)

[10]

1. Find out the products, which have been sold to 'Ivan Bayross'.
2. Finding out the products and their quantities that will have to be delivered in the current month.
3. Listing the ProductNo and description of constantly sold (i.e. rapidly moving) products.
4. Finding the names of clients who have purchased 'Trousers'.
5. Listing the products and orders from customers who have ordered less than 5 units of 'Pull Overs'.

Write queries for following descriptions: (Subqueries)

[12]

1. Finding the non-moving products i.e. products not being sold.
2. Finding the name and complete address for the customer who has placed Order number 'O19001'.
3. Finding the clients who have placed orders before the month of May'02.

Write Commands to do following

[12]

1. Display system date as Saturday, February 11, 2012
2. Display Balance Due from Client master as \$99,999.99
3. Display message as 'Salesman Aman sold goods of 50 while given target was 100.
4. Display your Age in Years

Write PL/SQL Blocks for following

[21]

1. Write a PL/SQL block to check the given number is even or odd.
2. Write a PL/SQL block to pass an age as parameter in procedure and decide person can vote or not.
3. Create a trigger which is executed AFTER INSERT or UPDATE. Each time rows are inserted or updated, the values in ORDER_STATUS are replaced with respective values in table as stated below if total quantity ordered is equal to total quantity dispatched then order status must be 'Fulfilled' if total quantity dispatched is 0 then order status must be replaced with 'Backorder' otherwise order status must be replaced with 'In-Process'