Practical   : V   **Semester   : V**

Title   : Oracle Lab   **Paper Code: COMPC070**

Oracle LAB CYCLE

1. Create Client_master table with the following data.

    Description : Use to store information about clients

Column Name	Data Type	Size	Attributes
Client_number	Varchar2	6	Primary key / first letter must start with 'C'
Client_name	Varchar2	20	Not null
Address1	Varchar2	30	Not null
Address2	Varchar2	30	Not null
City	Varchar2	15	Not null
State	Varchar2	15	Not null
Pin code	Number	8	Not null

Balance_due	Number	10,2	Not null

Data for client master table:

Client_nu	Name	City	Pincode	State	Bdue
C00001	Ivan Bayross	Bomabay	400054	Maharashtra	15000
C00002	Vandana	Madras	780001	Tamilnadu	0
C00003	Pramada	Bombay	400057	Maharashtra	5000
C00004	Basu	Bombay	400056	Maharashtra	0

2. Create Product_master table with the following data:

Column Name	Data Type	Size	Attributes
Product_no	Varchar2	6	Primary key / first letter must start with 'p'
description	Varchar2	15	Not null

Profit_percent	Number	4, 2	Not null
Unit_measure	Varchar2	10	Not null
Qty_on_hand	Number	8	Not null
Reorder_lvl	Number	8	Not null
Sell_price	Number	8,2	Not null, Cannot be 0
Cost_price	Number	8,2	Not null , cannot be 0

Data for Product Master table:

Pro_no	Desc	Prft_prcnt	UOM	Qtyonhnd	Relvl	SellPrice	CostPrice
P00001	1.44 Floppies	5	piece	100	20	525	500
P03453	Monitors	6	Piece	10	3	12000	11280
P06734	Mouse	5	Piece	20	5	1050	1000
P07865	Keyboards	2	Piece	10	3	3150	3050

3. Create Salesman master table with the following data:

Description: Use to store information about salesmen working in the company

Column Name	Data Type	Size	Attributes
Salesman_no	Varchar2	6	Primary key / first letter must start with 'S'
Salesman_name	Varchar2	20	Not null
Address1	Varchar2	30	Not null
Address2	Varchar2	30	Not null
city	Varchar2	20	
pincode	Varchar2	6	
state	Varchar2	20	
Sal_amt	Number	8,2	Not null , cannot be 0
Tgt_to_get	Number	6,2	Not null , cannot be 0
Ytd_sales	Number	6,2	Not null
remarks	Varchar2	60	

Data for salesman master table:

SNO	SNAME	ADD1	ADD2	CITY
S00001	Kiran	A/14	Worli	Bombay
S00002	Manish	65	Nariman	Bombay
S00003	Ravi	P-7	Bandra	Bombay
S00004	Ashish	A / 5	Juhu	Bombay

PINCODE	STATE	SALAMT	TGTTOGET	YTDSALES	REMARKS
400002	Maharashtra	3000	100	50	Good
400001	Maharashtra	3000	200	100	Good
400032	Maharashtra	3500	200	100	Good

400044	Maharashtra	3500	200	150	Good

4. Create sales order table with the following data.

Description : Use to store information about sales order

Column Name	Data Type	Size	Attributes
S_order_no	Varchar2	6	Primary key / first letter must start with 'O'
S_order_date	Date		
Client_no	Varchar2	6	Foeign key references client_no of client_master table
Dely_addr	Varchar2	25	
Salesman_no	Varchar2	6	Foeign key references salesman_no of salesman_master table
Dely_type	Char	1	Delivery: part(p)/full (F),default 'F'
Billed_yn	Char	1	
Dely_date	Date		Cannot be less than s_order_date
Order_status	Varchar2	10	Values ('In process', 'Fulfilled','Back order','Canceled')

Data for sales order table:

ONO	ODATE	CNO	DTYPE	BYN	SNO	DDATE	OSTATUS
O1901	12/JAN/11	C0001	F	N	S0001	20/JAN/11	In process
O1902	25/JAN/11	C0002	P	N	S0002	27/JAN/11	cancelled
O4648	18/JAN/11	C0003	F	Y	S0003	20/FEB/11	fulfilled
O1900	03/JAN/11	C0004	F	Y	S0001	07/APR/11	fulfilled

5. Create salesorder details table with the following data:

Column name	Data Type	Size	Attributes
S_order_no	Varchar2	6	Primary key / Foreign key references s_order_no of sales_order table
Product_no	Varchar2	6	
Qty_ordered	number	8	Primary key / Foreign key references product_no of product_master table

Qty_disp	number	8	
Product_rate	number	10,2	

Data for sales order details:

ONO	PNO	QTYORDERED	QTYDISP	PRORATE
O19001	P00001	4	4	525
O19002	P00002	2	1	8400
O19003	P00003	2	1	5250
O19004	P00004	10	0	525

Exercise on computations on table data:

1. Find the names of all clients having 'a' as the second letter in their names.

2. Find the list of all clients who stay in 'bombay' or 'delhi'.

3. Print the list of all clients whose balance due is greater than value 10000.

4. Display the information for client_no 'C0001', 'C0002'.

5. Find products whose selling price is more than 2000 and less than or equal to 5000.

6. Find the products whose selling price is more than 1500.

7. Find the new selling price as original selling price*15. Rename the new column in the query as new_price.

8. List names, city and state of clients who are not in the state of 'Maharashtra'.

9. Count the total number of orders.

10. Calculate the average price of all products.

11. Calculate the maximum and minimum product prices. Rename the title as max_price and min_price respectively.

12. Count the number of products having price greater than or equal to 1500.

13. Find all the products whose quantity on hand is less than reorder level.

Exercise on date manipulation:

14. Display the order number and dely_date on which clients placed their order.

15. Display the month (in alphabets) and date when the order must be delivered.

16. Display the salesorder date in the format 'dd/month/yy'.

17. Find the date, 15 days after today's date.

Exercise on having group by clauses:

18. Retrieve the product number and the total quantity ordered for each product from the salesorder details table.

19. Retrieve the product number and the total quantity ordered for products 'P0001', 'P07975' from salesorder details table.