

Database Management System Lab

Assignment 2:

Create the following tables:

Table Name: **Client_master**

Column Name	Data Type	Size	Attributes
Client_no	Varchar2	6	Primary key / 1 st letter must start with 'c'
Name	Varchar2	20	Not null
City	Varchar2	15	
Pincode	Number	8	
State	Varchar2	15	
Bal_due	Number	10,2	

Table Name: **Product_master**

Column Name	Data Type	Size	Attributes
Product_no	Varchar2	6	Primary key / 1 st letter must start with 'p'
Description	Varchar2	15	Not null
Profit_percent	Varchar2	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

Table Name: **Salesman_master**

Column Name	Data Type	Size	Attributes
Salesman_no	Varchar2	6	Primary key / 1 st letter must start with 's'
Salesman_name	Varchar2	20	Not null
Address1	Varchar2	10	Not null
Address1	Varchar2	10	
City	Varchar2	20	
Pincode	Number	7	
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	20	

Table name: **Sales_order**

Column Name	Data Type	Size	Attributes
Order_no	Varchar2	6	Primary key / 1 st letter must start with '0'
Order_date	date		
Client_no	Varchar2	6	Foreign key references client_no. of client_master
Dely_addresses	Varchar2	25	
Salesman_no	Varchar2	6	Foreign key references salesman_no of salesman_master
Dely_type	Char	1	Delivery: part(P) / full (F) default 'F'
Billed_yn	Char	1	
Dely_date	Date		Cannot be less than order_date
Order_status	Varchar2	10	Values ('in process', 'fulfilled', 'backorder', 'cancelled')

Table Name: **Sales_order_details**

Column Name	Data Type	Size	Attributes
Order_no	Varchar2	6	Primary_key / foreign key ref. Order_no of the sales_order table.
Product_no	Varchar2	6	Primary_key / foreign key ref. Product_no of the product_master table
Qty_ordered	Number	8	
Qty_Dis	Number	8	
Product_rate	Number	10,2	

Insert the following data into their respective tables:

Data for CLIENT MASTER table:

ClientNo	Name	City	Pincode	State	BalDue
C00001	Ivan Bayross	Mumbai	400054	Maharashtra	15000
C00002	Mamta Mazumdar	Madras	780001	Tamil Nadu	0
C00003	Chhaya Bankar	Mumbai	400057	Maharashtra	5000
C00004	Ashwini Joshi	Bangalore	560001	Karnataka	0
C00005	Hansel Colaco	Mumbai	400060	Maharashtra	2000
C00006	Deepak Sharma	Mangalore	560050	Karnataka	0

Data for PRODUCT MASTER table:

ProductNo	Description	Profit Percent	Unit Measure	QtyOr r Hand	ReorderLvl	SellPrice	CostPrice
P00001	T-Shirts	5	Piece	200	50	350	250
P0345	Shirts	6	Piece	150	50	500	350
P06734	Cotton Jeans	5	Piece	100	20	600	450
P07865	Jeans	5	Piece	100	20	750	500
P07868	Trousers	2	Piece	150	50	850	550
P07885	PuM-Overs	2.5	Piece	80	30	700	450
P07965	Denim Shirts	4	Piece	100	40	350	250
P07975	Lyers Tops	5	Piece	70	30	300	175
P08865	Skirts	5	Piece	75	30	450	300

Data for SALESMAN MASTER table:

SalesmanNo	Name	Address1	Address2	City	PinCode	State
S00001	Aman	A/14	Worli	Mumbai	400002	Maharashtra
S00002	Omkar	65	Nariman	Mumbai	400001	Maharashtra
S00003	Raj	P-7	Bandra	Mumbai	400032	Maharashtra
S00004	Ashish	A/5	Juhu	Mumbai	400044	Maharashtra

SalesmanNo	SalAmt	TgtToGet	YtdSales	Remarks
S00001	3000	100	50	Good
S00002	3000	200	100	Good
S00003	3000	200	100	Good
S00004	3500	200	150	Good

Data for SALES ORDER table:

OrderNo	ClientNo	DelyDate	SalesmanNo	DelyType	BillYN	OrderDate	OrderStatus
O19001	C00001	20-July-02	S00001	F	N	12-June-04	In Process
O19002	C00002	27-June-02	S00002	P	N	25-June-04	Cancelled
O46865	C00003	20-Feb-02	S00003	F	Y	18-Feb-04	Fulfilled
O19003	C00001	07-Apr-02	S00001	F	Y	03-Apr-04	Fulfilled
O46866	C00004	22-May-02	S00002	P	N	20-May-04	Cancelled
O19008	C00005	26-July-02	S00004	F	N	24-May-04	In Process

Data for SALES ORDER DETAILS table:

OrderNo	ProductNo	QtyOrdered	QtyDisp	ProductRate
O19001	P00001	4	4	525
O19001	P07965	2	1	8400
O19001	P07885	2	1	5250
O19002	P00001	10	0	525
O46865	P07868	3	3	3150
O46865	P07885	3	1	5250
O46865	P00001	10	10	525
O46865	P0345	4	4	1050
O19003	P03453	2	2	1050
O19003	P06734	1	1	12000
O46866	P07965	1	0	8400
O46866	P07975	1	0	1050
O19008	P00001	10	5	525
O19008	P07975	5	3	1050

Write necessary SQL queries for the following:

- 1) Find the names of all clients having 'a' as the second letter in their names.
- 2) Find out the clients who stay in a city whose second letter is 'a'.
- 3) Find the list of all clients who stay in 'Bombay' or 'Delhi'
- 4) Print the list of clients whose bal_due is greater than value 10000.
- 5) Print the information from sales_order table for orders placed in the month of January.
- 6) Display the order information for client_no 'C00001' and 'C00002'.
- 7) Find products whose selling price is greater than 2000 and less than or equal to 5000.
- 8) Find products whose selling price is more than 1500. Calculate a new selling price as original selling price * .15. Rename the new column in the above query as new_price.
- 9) List the names, city and state of clients who are not in the state of 'Maharashtra'.
- 10) Count the total number of orders.
- 11) Calculate the average price of all the products.
- 12) Determine the maximum and minimum product prices. Rename the output as max_price and min_price respectively.
- 13) Count the number of products having price greater than or equal to 1500.
- 14) Find all the products whose qty_on_hand is less than reorder level.
- 15) Display the order number and day on which clients placed their order.

