DBMS ASSIGNMENT 2

Table Name: **CLIENT_MASTER**

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

Table Name: **PRODUCT_MASTER**

Column Name	Data Type	Size	Attributes
ProductNo	Varchar2	6	Primary key / 1st letter must start with 'P'
Description	Varchar2	15	Not null
ProfitPercent	Varchar2	4,2	Not null
UnitMeasure	Varchar2	10	Not null
QtyInHand	Number	8	Not null
ReorderLvl	Number	8	Not null
SellPrice	Number	8,2	Not null, cannot be 0
CostPrice	Number	8,2	Not null, cannot be 0

Table Name: **SALESMAN_MASTER**

Column Name	Data Type	Size	Attributes
SalesmanNo	Varchar2	6	Primary key / 1st letter must start with 'S'
Name	Varchar2	20	Not null
Address1	Varchar2	10	Not null
Address1	Varchar2	10	
City	Varchar2	20	
Pincode	Number	7	
State	Varchar2	20	
Sal	Number	8,2	Not null, cannot be 0
TgtToGet	Number	6,2	Not null, cannot be 0
YtdSales	Number	6,2	Not null
Remarks	Varchar2	20	

Table name: **SALES_ORDER**

Column Name	Data Type	Size	Attributes
OrderNo	Varchar2	6	Primary key / 1st letter must start with 'O'
OrderDate	Date		
ClientNo	Varchar2	6	Foreign key references client_no. of client_master
DelyAddress	Varchar2	25	
SalesmanNo	Varchar2	6	Foreign key references salesman_no of salesman_master
DelyType	Char	1	Delivery: part(P) / full (F) default 'F'
BilledYN	Char	1	
DelyDate	Date		Cannot be less than order_date
OrderStatus	Varchar2	10	Values ('in process', 'fulfilled','backorder','cancelled')

Table Name: **SALES_ORDER_DETAILS**

Column Name	Data Type	Size	Attributes
OrderNo	Varchar2	6	Primary_key / foreign key ref. Order_no of the sales_order table
ProductNo	Varchar2	6	Primary_key / foreign key ref. Product_no of the product_master table
QtyOrdered	Number	8	
QtyDisp	Number	8	
ProductRate	Number	10,2	

Insert the following data into their respective tables:

Data for CLIENT_MASTER table:

ClientNo	Name	City	Pincode	State	BalanceDue
C00001	Ivan Bayross	Mumbai	400054	Maharashtra	15000
C00002	MamataMazumdar	Madras	780001	Tamil Nadu	0
C00003	ChhayaBankar	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	Unit measured	QtyIn 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	Pullovers	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	Jadavpur	Kolkata	700032	West Bengal
S00002	Omkar	65	Chandni	Delhi	110006	Delhi
S00003	Raj	P-7	Bandra	Mumbai	400032	Maharashtra
S00004	Ashish	A/5	Agara	Bengaluru	560034	Karnataka

Continued…

SalesmanNo	Sal	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	OrderDate	ClientNo	DelyDate	DelyAddress	SalesmanNo	DelyType	BilledYN	C
O19001	10-July-02	C00001	20-July-02		S00001	F	N	Ir
O19002	15-June-02	C00002	27-June-02	Insert data	S00002	P	N	O

O46865	11-Feb-02	C00003	20-Feb-02	of your	S00003	F	Y	F
O19003	15-Mar-02	C00001	07-Apr-02	choice	S00001	F	Y	F
O46866	12-May-02	C00004	22-May-02		S00002	P	N	C
O19008	14-July-02	C00005	26-July-02		S00004	F	N	Ir

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 with corresponding Outputs 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.