AMAL JYOTHI OF ENGINEERING, KANJIRAPALLY
DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING
S5 CSE
DBMS Lab Cycle1

1. Create the following tables

CLIENT_MASTER

Column name	Datatype	Size	Default	Attributes
Client No	Varchar2	6		
Name	Varchar2	20		
Address1	Varchar2	50		
Address2	Varchar2	50		
City	Varchar2	15		
Pincode	Number	8		
State	Varchar2	15		
BalDue	Number	10,2		

PRODUCT_MASTER

Column name	Datatype	Size	Default	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
Reorderlvl	Number	8		Not Null
Sell price	Number	8,2		Not Null, cannot be 0
Cost price	Number	8,2		Not Null, cannot be 0

SALESMAN_MASTER

Column name	Datatype	Size	Default	Attributes
Salesman No	Varchar2	6		Primary Key/first letter must start with 'S'
SalesmanName	Varchar2	20		Not Null
Address1	Varchar2	30		Not Null
Address2	Varchar2	30		
City	Varchar2	20		
Pincode	Number	8		

State	Varchar2	20		
Salamt	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	60		

SALES_ORDER

Column name	Datatype	Size	Default	Attributes
Order No	Varchar2	6		Primary Key/first letter must start with 'O'
Client No	Varchar2	6		Foreign key references client no of client_master table
Orderdate	Date			Not Null
Delyaddr	Varchar2	25		
Salesmanno	Varchar2	6		Foreign Key references Salesman No of Salesman_master table
Delytype	Char	1		part(P)/full(F)
Billyn	Char	1		
Delydate	Date			Cannot be less than order_date
Orderstatus	varchar2	10		Value in ('Process','Fulfilled','Backorder','Cancelled')

SALES_ORDER_DETAILS

Column name	Datatype	Size	Default	Attributes
Order No	Varchar2	6		Foreign key references Order no of sales_order table
Product No	Varchar2	6		Foreign key references productno of product_master

				table
Qtyordered	Number	8		
Qtydisp	Number	8		
Product rate	Number	10,2		

     i.   Alter the table "**CLIENT_MASTER**" to add a column called "Age" with data type Date.

     ii.   Modify the table of "**PRODUCT_MASTER**" to add a column "Product Code" with data type LONG.

     iii.   Alter the table "**CLIENT_MASTER** " to add a check constraint on column "Pincode" to accept number from 10000 to 1000000 only.

     iv.   Drop the field "Age" of "**CLIENT_MASTER**" table

     v.   Reduce the size of column "Address1" and "Address2" in "**CLIENT_MASTER**" table from 50 to 30

2. Insert the following data into their respective tables

CLIENT_MASTER

Client No	Name	Address1	Address2	City	Pincode	State	Baldue
C00001	Ivan Bayross	A/14	Rose	Mumbai	4000054	Maharastra	15000
C00002	Mamta muzumbdar	65	Lilli	Madras	780001	Tamilnadu	0
C00003	Chaya Banker	P-7	Sunflower	Mumbai	400057	Maharastra	5000
C00004	Ashwini John	A/5	Jasmine	Bangalore	560001	Karnataka	0
C00005	Hansel Colaco	A/6	KK nagar	Mumbai	400060	Maharastra	2000
C00006	Deepak Sharma	P-8	Raj road	Mangalore	560050	Karnataka	0

PRODUCT_MASTER

Product No	Description	Profit percent	Unit measure	Qty on hand	Reorderlvl	Sell price	Cost price
P00001	T-shirt	5	Piece	200	50	350	250
P0345	Shirt	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	Pull Overs	2.5	Piece	80	30	700	450
P07965	Denim Shirts	4	Piece	100	40	350	250
P07975	Lycra Tops	5	Piece	70	30	300	175
P08865	Skirts	5	Piece	75	30	450	300

SALESMAN_MASTER

Salesman No	Name	Address1	Address2	City	Pincode	State	SalAmt	TgtTo Get	Ytd Sales	Remarks
S00001	Aman	A/14	Rose	Mumbai	400002	Maharashtra	3000	100	50	Good
S00002	Omkar	65	Lilli	Mumbai	400001	Maharashtra	3000	200	100	Good
S00003	Raj	P-7	Sunflower	Mumbai	400032	Maharashtra	3000	200	100	Good
S00004	Asish	A/5	Jasmine	Mumbai	400044	Maharashtra	3500	200	150	Good

SALES_ORDER

Order No	Client No	Order Date	Salesman No	Dely type	BillYn	Dely Date	Order Status
O19001	C00001	12-June-04	S00001	F	N	20-July-02	InProcess
O19002	C00002	25-June-04	S00002	P	N	27-June-02	Cancelled
O46865	C00003	18-Feb-04	S00003	F	Y	20-Feb-02	Fulfilled
O19003	C00004	03-Apr-04	S00001	F	Y	07-Apr-02	Fulfilled
O46866	C00005	20-May-04	S00002	P	N	22-May-02	Cancelled
O19008	C00006	24-May-04	S00004	F	N	26-July-02	InProcess

SALES_ORDER_DETAILS

Order No	Product No	Qty Ordered	Qty Disp	Product Rate
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	84000
O46866	P07975	1	0	1050
O19008	P00001	10	5	525
O19008	P07975	5	3	1050

3. List the names of all clients having 'a' as the second letter in their names.
4. List the clients who stay in a city whose first letter is 'M'
5. List all clients who stay in Bangalore or Mangalore
6. List all clients whose BalDue is greater than value 10000
7. List all information from the sales_order table for orders placed in the month of June
8. List the order information for clientNo 'C00001' and 'C00002'
9. List products whose selling price is greater than 500.Calculate a new selling price as original selling price * 0.15.Rename the new column in the output of the above query as new_price.
10. List the names,city and sales of clients who are not in the state of 'Maharashtra'
11. Count the total number of orders
12. Calculate the average price of all the products
13. Determine the maximum and minimum product prices. Rename the output as ma_price and min_price respectively
14. Count the number of products having price less than or equal to 500
15. List all the products whose Qtyonhand is lessthan reorder level
16. List the order number and day on which Clients placed their order
17. List the month (in alphabet) and date when the orders must be delivered.
18. List the orderdate in the format 'DD-MONTH-YY'.
19. List the date,15 days after today's date.
20. Print the description and total qty sold for each product
21. Find the value of each product sold
22. Calculate the average qty sold for each client that has a maximum order value of 15000.00
23. Find out the total of all the billed orders for the month of June.
24. Find out the products which have been sold to 'Ivan Bayross'
25. Find out the products and their quantities that will have to be delivered in the current month.
26. List the product no and description of constantly sold(ie rapidly moving) products
27. Find the names of clients who have purchased 'Trousers'.
28. List the products and orders from customers who have ordered less than 5 units of 'Pull Overs'
29. Find the products and their quantities for the order s placed by 'Ivan Bayross' and 'Mamta Muzumdar'
30. Find the products and their quantities for the order s placed by Cline No 'C00001' and 'C00002'.
31. Find the product no and description of non-moving products not being sold
32. List the customer name,Address1,Address2,City,Pincode for the client who has placed order no 'O19001'
33. List the client names that have placed orders before the month of May 02.
34. List if the product 'Lycra Top' has been ordered by any client and print the Client-no,name to whom it was sold.
35. List the names of clients who have placed orders worth Rs.10000 or more.