

Create the tables described below:

1. Client\_master

Column Name	Data type	Size	Attributes
Client_no	Varchar2	6	Primary key/ first letter must start with 'C'
Name	Varchar2	20	Not NULL
City	Varchar2	15	
Bal_due	Number	10,2	

2. Product\_master

Column name	Data type	Size	Attributes
Product_no	Varchar2	6	Primary key/ first letter must start with 'P'
Description	Varchar2	5	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

3. Salesman\_master

Column name	Data type	Size	Attributes
Salesman_no	Varchar2	6	Primary key/ first letter must start with 'S'
Salesman_name	Varchar2	20	Not NULL
City	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

4. Sales\_order

Column name	Data type	Size	Attributes
Order_no	Varchar2	6	Primary key/ first letter must start with 'O'
Order_date	Date		
Client_no	Varchar2	6	Foreign key references client_no of client_master
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 less than order_date
Order_status	Varchar2	10	Values('In Process', 'Fulfilled', 'BackOrder', 'Cancelled')

### 5. Sales\_order details

Column name	Data type	Size	Attributes
Order_no	Varchar2	6	Primary key / foreign key references order_no of the sales_order
Product_no	Varchar2	6	Primary key / foreign key references product_no of the product_master
Qty_ordered	Number	8	
Qty_disp	Number	8	
Product_rate	Number	10,2	

Insert the following data into their respective table:

#### • 1. Client\_master

Client_no	Name	City	Bal_due
C00001	Sourav	Mumbai	15000
C00002	Suhas	Chennai	0
C00003	Ram	Mumbai	5000
C00004	Nilangsu	Mumbai	0
C00005	Amitava	Delhi	2000
C00006	Arijit	Mumbai	0

#### • 2. Product\_master

Product_no	Description	Profit_percent	Unit_measure	Qty_on_hand	Recorder_lvl	Sell_price	Cost_p
P00001	1.44 floppy	5	Piece	100	20	525	500
P00002	Monitors	6	Piece	10	3	12000	11280
P00003	Mouse	5	Piece	20	5	1050	1000
P00004	1.22 floppy	5	Piece	100	20	525	500
P00005	Keyboards	2	Piece	10	3	3150	3050
P00006	CD drive	2.5	Piece	10	3	5250	5100
P00007	540 HDD	4	Piece	10	3	8400	8000
P00008	1.44 drive	5	Piece	10	3	1050	1000
P00009	1.22 drive	5	Piece	2	3	1050	1000

cost  
Price.

#### 3. Salesman\_master

Salesman_no	Salesman_name	City	Sal_amt	Tgt_to_get	Ytd_sales
S00001	SJ	Mumbai	3000	100	50
S00002	SC	Mumbai	3000	200	100
S00003	RG	Mumbai	3000	200	100
S00004	NM	Mumbai	3500	200	150



4. Sales\_order

Order_no	Order_date	Client_no	Salesman_no	Dely_Type	Billed_yn	Dely_date	Order_status
O00001	12.01.03	C00001	S00001	F	N	20.01.03	In Process
O00002	25.01.03	C00002	S00002	P	N	27.01.03	Cancelled
O00003	18.02.03	C00003	S00003	F	Y	20.02.03	Fulfilled
O00004	03.04.03	C00001	S00001	F	Y	07.04.03	Fulfilled
O00005	20.05.03	C00004	S00002	P	N	22.05.03	Cancelled
O00006	24.05.03	C00005	S00004	F	N	26.05.03	In Process

5. Sales\_order\_Details

Order_no	Product_no	Qty_ordered	Qty_disp	Product_rate
O00001	P00001	4	4	525
O00001	P00007	2	1	8400
O00001	P00006	2	1	5250
O00002	P00001	10	0	525
O00003	P00005	3	3	3150
O00003	P00006	3	1	5250
O00003	P00001	10	10	525
O00003	P00002	4	4	1050
O00004	P00002	2	2	1050
O00004	P00003	1	1	12000
O00005	P00007	1	0	8400
O00005	P00008	1	0	1050
O00006	P00001	10	5	525
O00006	P00008	5	3	1050

## Queries:

1. Print the description and total qty sold for each product.
2. Find the value of each product sold.
3. Calculate the average qty sold for each client that has a maximum order value of 15000.00.
4. Find out the sum total of all the billed order for the month of January.
5. Find out the products, which have been sold to 'Ram'.
6. Find out the products & their qty that will have to be delivered in the current month.
7. Find the product\_no & description of constantly sold i.e. rapidly moving products.
8. Find the names of the clients who have purchased 'CD drive'.
9. List the product\_no & order\_no of customers having qty\_ordered less than 5 from the Sales\_order\_details for the product '1.44 floppy'.
10. Find the products & their qty for the orders placed by 'SJ' & 'NM'.
11. Find the products & their qty for the orders placed by client\_no 'C00001' & 'C00002'.
12. Find the product\_no & description of non-moving products i.e. products not being sold.
13. Find the customer name, city for the client who has placed order\_no 'O00001'.
14. Find the names of the client who have placed orders before the month of May'03.
15. Find out if the product '1.44 drive' has been ordered by any client & point the client\_no, name to whom it sold.
16. Find the names of clients who have placed orders worth Rs. 10000 or more.