Tables for Exercise

Que : 1 Create the following tables:

Table Name : Client_master
Description : Use to store information about clients.

Column Name	Data Type	Size	Attributes
Client_no	Varchar	6	Primary Key / First letter must start with 'C'.
Name	Varchar	20	Not Null
City	Varchar	15	
State	Varchar	15	
Pincode	Decimal	6	
Bal_due	Decimal	10,2	

Table Name : product_master
Description : Use to store information about products.

Column Name	Data Type	Size	Attributes
Product_no	Varchar	6	Primary Key / first letter must start with 'P'
Description	Varchar	15	Not Null
Profit_percent	Decimal	2,2	Not Null
Unit_measure	Varchar	10	Not Null
Qty_on_hand	Decimal	8	Not Null
Reorder_lvl	Decimal	8	Not Null
Sell_price	Decimal	8,2	Not Null, Cannot be 0.
Cost_price	Decimal	8,2	Not Null, Cannot be 0.

Table Name : salesman_master
Description : Use to store information about salesman working in the company

Column Name	Data Type	Size	Attributes
Salesman_no	Varchar	6	Primary Key / First letter must start with 'S'
Salesman_name	Varchar	20	Not Null
Address1	Varchar	30	Not Null
Address2	Varchar	30	
City	Varchar	20	
Pincode	Varchar	6	
State	Varchar	20	
Sal_amt	Decimal	8,2	Not Null, cannot be 0
Tgt_to_get	Decimal	6,2	Not Null, cannot be 0
Ytd_sales	Decimal	6,2	Not Null
Remarks	Varchar	60	

Table Name : sales_order
Description : Use to store information about order

Column Name	Data Type	Size	Attributes
S_order_no	Varchar	6	Primary Key / First letter must start with 'O'
S_order_date	Date		
Client_no	Varchar	6	Foreign Key references client_no of client_master table
Dely_addr	Varchar	25	
Salesman_no	Varchar	6	Foreign 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	Varchar	10	Values('In Process', 'Fulfilled', 'BackOrder','Canceled')

Table Name : sales_order_details
Description : Use to store information about products ordered.

Column Name	Data Type	Size	Attributes
S_order_no	Varchar	6	Primary Key / Foreign Key references s_order_no of sales_order table.
Product_no	Varchar	6	Primary Key / Foreign Key references product_no of product_master table.
Qty_ordered	Decimal	8	
Qty_disp	Decimal	8	
Product_rate	Decimal	10,2	

Table Name : Challan_Header
Description : Use to store information about challans made for the order.

Column Name	Data Type	Size	Attributes
Challan_no	Varchar	6	Primary Key / first two letters must start with 'CH'.
S_order_no	Varchar	6	Foreign key references s_order_no of sales_order table.
Challan_date	Date		Not Null
Billed_yn	Char	1	Values('Y','N'), Default 'N'.

Table Name : Challan_Details
Description : Use to store information about challans made for the order.

Column Name	Data Type	Size	Attributes
Challan_no	Varchar	6	Primary key/ Foreign key references challan_no of challan_header table.
Product_no	Varchar	6	Primary key/ Foreign key references product_no of product_master table.
Qty_disp	Decimal	4,2	Not Null

Que : 2 Insert the following data into their respective tables using the SQL insert statement :

1. **Data for client_mastr table :**

Client_no	Name	City	Pincode	State	Bal_due
C00001	Ivan Bayross	Bombay	400054	Maharashtra	15000
C00002	Vandana Saitwal	Madras	780001	Tamil Nadu	0
C00003	Pramada Jaguste	Bombay	400057	Maharashtra	5000
C00004	Basu Navindgi	Bombay	400056	Maharashtra	0
C00005	Ravi Sreedharan	Delhi	100001		2000
C00006	Rukmini	Bombay	400050	Maharashtra	0

2. **Data for Product_master table :**

Product_no	Description	Profit Percent	UOM	Qty_on_hand	Reorder_lvl	Sell_price	Cost_price
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	1.22 Floppies	5	Piece	100	20	525	500
P07868	Keyboards	2	Piece	10	3	3150	3050
P07885	CD Drive	2.5	Piece	10	3	5250	5100
P07965	540 HDD	4	Piece	10	3	8400	8000
P07975	1.44 Drive	5	Piece	10	3	1050	1000
P08865	1.22 Drive	5	Piece	2	3	1050	1000

3. **Data for Salesman_master table :**

Salesman No	Salesman Name	Add1	Add2	City	Pincode	State	Sal Amt	Tgt_to Get	Ytd Sales	Remarks
S00001	Kiran	A/14	Worli	Bombay	400002	MAH	3000	100	50	Good
S00002	Manish	65	Nariman	Bombay	400001	MAH	3000	200	100	Good
S00003	Ravi	P-7	Bandra	Bombay	400032	MAH	3000	200	100	Good
S00004	Ashish	A/5	Juhu	Bombay	400044	MAH	3000	200	150	Good

4. **Data for sales_order table :**

S_order_no	S_order_date	Client_no	Dely Type	Bill YN	Salesman No	Dely_date	Order Status
O19001	12-jan-96	C00001	F	N	S00001	20-jan-96	IP
O19002	25-jan-96	C00002	P	N	S00002	27-jan-96	C
O46865	18-feb-96	C00003	F	Y	S00003	20-feb-96	F
O19003	03-apr-96	C00001	F	Y	S00001	07-apr-96	F
O46866	20-may-96	C00004	P	N	S00002	22-may-96	C
O10008	24-may-96	C00005	F	N	S00004	26-may-96	IP

J. **Data for sales_order_details table :**

S_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	P03453	4	4	1050
O19003	P03453	2	2	1050
O19003	P06734	1	1	12000
O46866	P07965	1	0	8400
O46866	P07975	1	0	1050
O10008	P00001	10	5	525
O10008	P07975	5	3	1050

6. **Data for challan_header table :**

Challan_no	S_order_no	Challan_date	Billed
CH9001	O19001	12-dec-95	Y
CH6865	O46865	12-nov-95	Y
CH3965	O10008	12-oct-95	Y

7. **Data for challan_details table :**

Challan_no	Product_no	Qty_disp
CH9001	P00001	4
CH9001	P07965	1
CH9001	P07885	1
CH6865	P07868	3
CH6865	P03453	4
CH6865	P00001	10
CH3965	P00001	5
CH3965	P07975	2

Perform the following queries on the basis of these tables.