

Assignment 1

1) Create the following tables:

a. **Table Name :** Client_master

Description: Use to store information about client

Column Name	Data Type	Size	Attributes
client_no	varchar2	6	Primary key/first letter must start with 'C'
name	varchar2	20	not null
address1	varchar2	30	
address2	varchar2	30	
city	varchar2	15	
state	varchar2	15	
pincode	number	6	
bal_due	number	10,2	

b. **Table Name:** product_master

Description: Use it store information about products.

Column Name	Data Type	Size	Attributes
product_no	varchar2	6	Primary key/first letter must start with 'P'
description	varchar2	50	not null
profit_percent	number	3,2	not null
unit_measure	varchar2	10	not null
record_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

c. **Table Name :** salesman_master

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

Column Name	Data Type	Size	Attributes
salesman_no	varchar2	6	Primary key/first letter must start with 'S'
salesman_name	varchar2	20	not null
Address1	varchar2	30	not null
Address2	varchar2	30	
city	varchar2	20	
pincode	varchar2	6	
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

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remarks	varchar2	60	
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d. **Table Name :** sales_order

Description: Use to store information about order

Column Name	Data Type	Size	Attributes
s_order_no	varchar2	6	Primary key/first letter must start with 'O'
s_order_date	date		
client_no	varchar2	6	Foreign key references client_no of client_master table
dely_addr	varchar2	25	
salesman_no	varchar2	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	delivery :part (Y) / full (N), Default 'N'
dely_date	date		cannot be less than s_order_date
order_status	varchar2	10	values ('in process', 'Fulfilled', 'BackOrder', 'Canceled')

e. **Table Name:** sales_order_details

Description: Use to store information about products ordered.

Column Name	Data Type	Size	Attributes
s_order_no	varchar2	6	Foreign key references s_order_no of sales_order table
product_no	varchar2	6	Foreign key references product_no of product_master table
qty_ordered	number	8	
qty_disp	number	8	
product_rate	number	10,2	

f. **Table Name:** Challan_Header

Description: Use to store information about challans made for the orders.

Column Name	Data Type	Size	Attributes
challan_no	varchar2	6	Primary Key/First Two letters must start with 'CH'
s_order_no	varchar2	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'

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g. **Table Name:** Challan_details

Description: use to store information about challan details

Column Name	Data Type	Size	Attributes
challan_no	varchar2	6	Primary Key/Foreign Key references challan_no of challan_header table.
product_no	varchar2	6	Primary Key/Foreign Key references product_no of product_master table
qty_disp	number	4,2	not null

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

1. Data for client_master table

Client No	Name	City	Pin Code	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	Delhi	2000
C00006	Rukmini	Bombay	400050	Maharashtra	0

2. Data for Product_master Table:

ProductNo	Description	Profit %	UOM	qty_on_hand	Reorder lel	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

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3. Data for Salesman_master table:

3. Data for salesman_master table:

Salesman_no	Salesman_name	Address1	Address2	City	Pin code	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	3500	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-1996	C00001	F	N	S00001	20-Jan-1996	IP
O19002	25-Jan-1996	C00002	P	N	S00002	27-Jan-1996	C
O46865	18-Feb-1996	C00003	F	Y	S00003	20-Feb-1996	F
O19003	03-Apr-1996	C00001	F	Y	S00001	07-Apr-1996	F
O46866	20-May-1996	C00004	P	N	S00002	22-May-1996	C
O10008	24-May-1996	C00005	F	N	S00004	26-May-1996	IP

5. Data for sales_order_details table:

s_order_no	product_no	Qty ordered	qty_Dis	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

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6. Data for challan_header table:

Challan No	S Order No	Challan Date	Billed
CH9001	O19001	12-Dec-1995	Y
CH6865	O46865	12-Nov-1995	Y
CH3965	O10008	12-Oct-1995	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

Hands-on Exercise

- 1) Add the following record into the challan_details table and check if the records gets added or not. Note the observation for each of them

CH9001	P00001	5
P785341	P06734	9
P00001	CH9001	1

- 2) Drop the table product_master. Can the product_master be dropped. If not, Note the error message.
- 3) Drop the table challan_details, challan_header and product_master in specified sequence.
- 4) What conclusions can you draw, performing the above tasks?