

HALDIA INSTITUTE OF TECHNOLOGY

PCC-AIML-592

LAB Assignment-5

1. Create the following tables:

(Giving names to all the constraints are mandatory)

a) Table Name: **Client_Master**

Column Name	Data Type	Size	Constraints
Client_no	Varchar2	5	Primary Key , Should start with C
Name	Varchar2	20	Not Null, Unique Key
Address1	Varchar2	30	
State	Varchar2	30	
City	Varchar2	15	Should be within Delhi, Mumbai and Chennai

Data for **Client_Master** table:

Client_no	Name	Address1	State	City
C01	Ivaan	Church Rd	Maharashtra	Mumbai
C02	Vandana	St.Mary Rd	Tamil Nadu	Chennai
C03	Pramada	Mall Rd	Maharashtra	Mumbai
C04	Basu	Church Rd	Maharashtra	Mumbai
C05	Ravi	Chandni	null	Delhi
C06	Rukmini	Mall Rd	Maharashtra	Mumbai

b) Table Name: **Sales_Order**

Column Name	Data Type	Size	Constraints
S_order_no	Varchar2	10	Primary Key, Should start with O
S_order_date	Date		
Client_no	Varchar2	5	Foreign Key references client_no of Client_Master table
Salesman_no	Varchar2	10	Should start with S
Product_no	Varchar2	10	Foreign Key references Product_no of Product_Master table

Data for **Sales_Order** table:

S_order_no	S_order_date	Client_no	Salesman_no	Product_no
O19001	12-jan-96	C01	S01	P01
O19002	25-jan-96	C02	S02	P02
O19003	18-feb-96	C03	S03	P03
O19004	03-apr-96	C01	S01	P04
O19005	20-may-96	C04	S02	P05
O19006	24-may-96	C05	S04	P06

c) Table Name: Products_Master

Column Name	Data Type	Size	Constraints
Product_no	Varchar2	10	Primary key , should start with P
Description	Varchar2	20	Not Null, Unique Key
Qty_on_hand	Number	8	Should be greater than 10 .
Sell_price	Number	8,2	Not Null
Cost_price	Number	8,2	Not Null

Data for table Products_Master:-

Product_no	Description	Qty_on_hand	Sell_price	Cost_price
P01	1.44 Floppies	100	525	500
P02	Monitors	25	12000	11280
P03	Mouse	20	1050	1000
P04	1.22 floppies	100	525	500
P05	Keyboards	15	3150	3050
P06	Cd drive	14	5250	5100

2. Add a Not Null constraint on the address1 field of Client_Master table and display the structure of the table.
3. Check whether **entity integrity constraint** is enforced in all the 3 tables. Show all the conditions are enforced.
4. Check whether **referential integrity constraint** is enforced in the respective table or not. Show all the conditions are enforced.
5. Check whether **domain integrity constraint** is enforced in the respective table or not. Show all the conditions are enforced.
6. Calculate the profit (Sell_price-Cost_price) from the Products_Master table. Name the column as 'Profit'.
7. Calculate and display the total cost price (Qty_on_hand * Cost_price) of the stock present in hand. Name the column accordingly.
8. Display the client details of all the clients whose name starts with **I**.
9. Display the client details of all the clients whose name start with **R** and ends with **i**.
10. Display the client details of all the clients whose name contains **a** in the third and fifth position.
11. Display the client details of all the clients whose name contains **aa**.
12. Display the client details of all the clients whose name contains exactly four characters.
13. Display the client details of those clients who have not mentioned state in his/her address.
14. Display the order details placed after January, 1996.
15. Change the s_order_date of client_no 'C01' to 24/07/96, Product_no to 'P06', Salesman_no to 'S04'.
16. Change the city of client_no 'C05' to 'Kolkata'.

- 17.**Change the field size of Client_no to 15 in all the tables where the field Client_no is present.
- 18.**Change the client_no for S_order_no O19001 to C08 in Sales_Order table.
Note down the error, if any.
- 19.** Remove the Foreign Key constraint referencing Product_Master table from the Sales_Order table.
- 20.**Remove the Foreign Key constraint referencing Client_Master table from the Sales_Order table.
- 21.**Remove the check constraint on Product_no from the Product_Master table.
- 22.**Remove the record for Client_no C02 from Client_Master table.
- 23.** Remove those records from Product_Master table for which sell price is between 1000 and 10,000.
- 24.** Create a table of your own with a composite primary key.
- 25.**Create another table of your own wish, where the composite primary key of problem 24 will act as a foreign key here.