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BATCH:4

EXPERIMENT NO:- 01

OBJECTIVE: To understand the concept of designing issue related to the database with creating, populating the tables. Also familiarize students with different ways of manipulation in database.

- **CREATE THE TABLE DESCRIBED:**

Table name: CLIENT_MASTER

Description: used to store client information.

Column name	data type	Size
CLIENTNO	Varchar	6
NAME	Varchar	20
ADDRESS 1	Varchar	30
ADDRESS 2	Varchar	30
CITY	Varchar	15
PINCODE	Integer	
STATE	Varchar	15
BALDUE	Decimal	10,2

Table Name: **PRODUCT_MASTER**

Description: used to store product information

Column name	data type	Size
PRODUCTNO	Varchar	6
DESCRIPTION	Varchar	15
PROFITPERCENT	Decimal	4,2
UNIT MEASURE	Varchar	10
QTYONHAND	Integer	
REORDERL VL	Integer	
SELLPRICE	Decimal	8,2
COSTPRICE	Decimal	8,2

```
SQL> create table PRODUCT_MASTER (PRODUCTNO varchar(6),
2  description varchar(15),
3  profitpercent int,
4  unitmeasure varchar(10),
5  qtyonhand int,
6  reorderlvl int,
7  sellprice int,
8  costprice int);
```

Table created.

SQL>

Table Name: SALESMAN_MASTER

Description: Used to store salesman information working for the company.

Column name	data type	Size
SALESMANNO	Varchar	6
SALESMANNAME	Varchar	20
ADDRESS 1	Varchar	30
ADDRESS 2	Varchar	30
CITY	Varchar	20
PINCODE	Integer	
STATE	Varchar	20
SALAMT	Real	
TGTTGET	Decimal	
YTDSALES	Double	6,2
REMARKS	Varchar	60

```

SQL> create table salesman_MASTER (salesmanNO varchar(6),
2  salesmanname varchar(20),
3  address1 varchar(30),
4  address2 varchar(30),
5  city varchar(20),
6  pincode int,
7  state varchar(20),
8  salamt int,
9  tgttoget int,
10 ytdsales int,
11 remarks varchar(60));

```

Table created.

SQL>

- Insert the following data into their respective tables:

- Data for **CLIENT_MASTER** table:

Client no	Name	City	Pincode	State	BalDue
C00001	Ivan bayross	Mumbai	400054	Maharashtra	15000
C00002	Mamta muzumdar	Madras	780001	Tamil nadu	0
C00003	Chhaya bankar	Mumbai	400057	Maharashtra	5000
C00004	Ashwini joshi	Bangalore	560001	Karnataka	0
C00005	Hansel colaco	Mumbai	400060	Maharashtra	2000
C00006	Deepak sharma	Mangalore	560050	Karnataka	0

```

SQL> insert into client_master values('C00001','Ivan Bayross','Address1','Address2','Mumbai',400054,'Maharashtra',15000);

1 row created.

SQL> insert into client_master values('C00002','Mamta Muzumdar','Address1','Address2','Madras',780001,'Tamil Nadu',0);

1 row created.

SQL> insert into client_master values('C00003','Chhaya Bankar','Address1','Address2','Mumbai',400057,'Maharashtra',5000);

1 row created.

SQL> insert into client_master values('C00004','Ashwini Joshi','Address1','Address2','Bangalore',560001,'Karnataka',0);

1 row created.

SQL> insert into client_master values('C00005','Hansei Colaco','Address1','Address2','Mumbai',400060,'Maharashtra',2000);

1 row created.

SQL> insert into client_master values('C00006','Deepak Sharma','Address1','Address2','Mangalore',560050,'Karnataka',0);

1 row created.

SQL>

```

- Data for **PRODUCT_MASTER** table:

Product No	Description	Profit percent	Unit measure	Quantity On hand	Recorder Level	Sell Price	Cost Price
P00001	T-Shirt	5	Piece	200	50	350	250
P0345	Shirts	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 jeans	4	Piece	100	40	350	250

P07975	Lycra tops	5	Piece	70	30	300	175
P08865	Skirts	5	Piece	75	30	450	300

```

SQL> insert into product_master values('P00001','T-Shirts', 5, 'Piece', 200, 50,
 350, 250);

1 row created.

SQL> insert into product_master values('P0345','Shirts', 6, 'Piece', 150, 50, 50
0, 350);

1 row created.

SQL> insert into product_master values('P06734','Cotton Jeans', 5, 'Piece', 100,
 20, 600, 450);

1 row created.

SQL> insert into product_master values('P07865','Jeans', 5, 'Piece', 100, 20, 75
0, 500);

1 row created.

SQL> insert into product_master values('P07868','Trousers', 2, 'Piece', 150, 50,
 850, 550);

1 row created.

SQL> insert into product_master values('P07885','Pull Overs', 2.5, 'Piece', 80 ,
30, 700, 450);

1 row created.

SQL> insert into product_master values('P07868','Denim Shirts', 4, 'Piece', 100,
 40, 350, 250);

1 row created.

SQL> insert into product_master values('P07868','Lycra Tops', 5, 'Piece', 70, 30
, 300, 175);

1 row created.

SQL> insert into product_master values('P07868','Skirts', 5, 'Piece', 75, 30, 45
0, 300);

1 row created.

SQL>

```

Run SQL Command Line						
SQL> select * from PRODUCT_Master;						
PRODUC	DESCRIPTION	PROFITPERCENT	UNITMEASUR	QTYONHAND	REORDERLUL	SELLPRICE

	COSTPRICE					
P000001	T-Shirts	5	Piece	200	50	350
	250					
P0345	Shirts	6	Piece	150	50	500
	350					
P06734	Cotton Jeans	5	Piece	100	20	600
	450					
PRODUC	DESCRIPTION	PROFITPERCENT	UNITMEASUR	QTYONHAND	REORDERLUL	SELLPRICE

	COSTPRICE					
P07865	Jeans	5	Piece	100	20	750
	500					
P07868	Trousers	2	Piece	150	50	850
	550					
P07885	Pull Overs	3	Piece	80	30	700
	450					
PRODUC	DESCRIPTION	PROFITPERCENT	UNITMEASUR	QTYONHAND	REORDERLUL	SELLPRICE

	COSTPRICE					
P07868	Denim Shirts	4	Piece	100	40	350
	250					
P07868	Lycra Tops	5	Piece	70	30	300
	175					
P07868	Skirts	5	Piece	75	30	450
	300					

- Data for **SALESMAN_MASTER** table:

Salesman No	Name	Address1	Address2	City	Pin Code	State
-------------	------	----------	----------	------	----------	-------

S00001	Aman	A/14	Worli	Mumbai	400002	Maharashtra
S00002	Omkar	65	Nariman	Mumbai	400001	Maharashtra
S00003	Raj	P-7	Bandra	Mumbai	400032	Maharashtra
S00004	Ashish	A/5	Juhu	Mumbai	400044	Maharashtr(a

```
SQL> insert into salesman_master values('S00001','Aman','A/14','Worli','Mumbai',
400002,'Maharashtra',3000,100,50,'Good');
```

```
1 row created.
```

```
SQL>
```

```
SQL> insert into salesman_master values('S00002','Omkar','65','Nariman','Mumbai',
400001,'Maharashtra',3000,200,100,'Good'
2  );
```

```
1 row created.
```

```
SQL>
```

```
SQL> insert into salesman_master values('S00003','Raj','P-7','Bandra','Mumbai',4
00032,'Maharashtra',3000,200,100,'Good');
```

```
1 row created.
```

```
SQL>
```

```
SQL> insert into salesman_master values('S00004','Ashish','A/5','Juhu','Mumbai',
400044,'Maharashtra',3500,200,150,'Good');
```

```
1 row created.
```

```
SQL>
```



```

SQL> select * from SALESMAN_Master;
SALESM SALESMANNAME      ADDRESS1
-----
ADDRESS2                  CITY                PINCODE
-----
STATE                     SALAMT          TGTTOGET        YTDSALES
-----
REMARKS
-----
S000001 Aman             A/14
Worli                     Mumbai          400002
Maharashtra              3000            100            50
Good

SALESM SALESMANNAME      ADDRESS1
-----
ADDRESS2                  CITY                PINCODE
-----
STATE                     SALAMT          TGTTOGET        YTDSALES
-----
REMARKS
-----
S000002 Omkar            65
Nariman                   Mumbai          400001
Maharashtra              3000            200            100
Good

SALESM SALESMANNAME      ADDRESS1
-----
ADDRESS2                  CITY                PINCODE
-----
STATE                     SALAMT          TGTTOGET        YTDSALES
-----
REMARKS
-----
S000003 Raj              P-7
Bandra                    Mumbai          400032
Maharashtra              3000            200            100
Good

SALESM SALESMANNAME      ADDRESS1
-----
ADDRESS2                  CITY                PINCODE
-----
STATE                     SALAMT          TGTTOGET        YTDSALES
-----
REMARKS
-----
S000004 Ashish           A/5
Juhu                      Mumbai          400044
Maharashtra              3500            200            150
Good

```

- a. Find out the names of all the clients.

```
SQL> select distinct Name from client_master;
```

```
NAME
```

```
-----
```

```
Chhaya Bankar
```

```
Ivan Bayross
```

```
Mamta Muzumdar
```

```
Deepak Sharma
```

```
Ashwini Joshi
```

```
Hansey Colaco
```

```
6 rows selected.
```

```
SQL>
```

- b. Retrieve the entire contents of the Client_Master table.

```

SQL> select * from Client_Master;
CLIENT NAME          ADDRESS1
-----
ADDRESS2              CITY              PINCODE
-----
STATE                BAILDUE
-----
C000001 Ivan Bayross   Address1
Address2              Mumbai              400054
Maharashtra          15000
C000002 Manta Muzundar Address1
Address2              Madras              780001
Tamil Nadu           0
CLIENT NAME          ADDRESS1
-----
ADDRESS2              CITY              PINCODE
-----
STATE                BAILDUE
-----
C000003 Chhaya Bankar Address1
Address2              Mumbai              400057
Maharashtra          5000
C000004 Ashwini Joshi  Address1
Address2              Bangalore           560001
CLIENT NAME          ADDRESS1
-----
ADDRESS2              CITY              PINCODE
-----
STATE                BAILDUE
-----
Karnataka            0
C000005 Hansei Colaco  Address1
Address2              Mumbai              400060
Maharashtra          2000
C000006 Deepak Sharma  Address1
CLIENT NAME          ADDRESS1
-----
ADDRESS2              CITY              PINCODE
-----
STATE                BAILDUE
-----
Address2              Mangalore           560050
Karnataka            0

6 rows selected.

```

- c. Retrieve the list of names, city and the state of all the clients.

```
SQL> select Name, City, State from client_master;
```

NAME	CITY	STATE
Ivan Bayross	Mumbai	Maharashtra
Mamta Muzumdar	Madras	Tamil Nadu
Chhaya Bankar	Mumbai	Maharashtra
Ashwini Joshi	Bangalore	Karnataka
Hansei Colaco	Mumbai	Maharashtra
Deepak Sharma	Mangalore	Karnataka

```
6 rows selected.
```

```
SQL>
```

- d. List the various products available from the Product_Master table.

```
SQL> select distinct DESCRIPTION from product_master;
```

DESCRIPTION

Shirts
Denim Shirts
Pull Overs
Cotton Jeans
Lycra Tops
Jeans
Skirts
T-Shirts
Trousers

```
9 rows selected.
```

```
SQL>
```

- e. List all the clients who are located in Mumbai.

```
SQL> select * from client_master where City = 'Mumbai';
```

CLIENT NAME	ADDRESS1	ADDRESS2	CITY	PINCODE
C00001 Ivan Bayross	Address1	Mumbai	400054	
Address2	Mumbai	400057		
Maharashtra	15000			
C00003 Chhaya Bankar	Address1	Mumbai	400057	
Address2	Mumbai	400057		
Maharashtra	5000			
C00005 Hansei Colaco	Address1	Mumbai	400060	
Address2	Mumbai	400060		
Maharashtra	2000			

```
SQL>
```

- f. Find the names of salesman who have a salary equal to Rs.3000.

```
SQL> select SalesmanName from salesman_master where SalAmt = 3000;
```

SALESMANNAME
Aman
Omkar
Raj

```
SQL>
```

- a. Change the city of ClientNo 'C00005' to 'Bangalore'.

```
SQL> update client_master set City = 'Bangalore' where ClientNo = 'C00005';
1 row updated.
```

```
Run SQL Command Line
SQL> select * from client_master;
```

CLIENT NAME	ADDRESS1	ADDRESS2	CITY	PINCODE	STATE	BAILDUE
C00001 Ivan Bayross	Address1	Address2	Mumbai	400054	Maharashtra	15000
C00002 Manta Muzumdar	Address1	Address2	Madras	780001	Tamil Nadu	0
C00003 Chhaya Bankar	Address1	Address2	Mumbai	400057	Maharashtra	5000
C00004 Ashwini Joshi	Address1	Address2	Bangalore	560001		
C00005 Hansei Colaco	Address1	Address2	Bangalore	400060	Maharashtra	2000
C00006 Deepak Sharma	Address1	Address2	Mangalore	560050	Karnataka	0

```
6 rows selected.
SQL>
```

- b. Change the BalDue of ClientNo 'C00001' to Rs.1000.

```
SQL> update client_master set BalDue = 1000 where ClientNo = 'C00001';  
1 row updated.  
SQL>
```

```
SQL> select * from client_master;
```

CLIENT NAME	ADDRESS1	ADDRESS2	CITY	PINCODE	STATE	BAILDUE
C000001 Ivan Bayross	Address1	Address2	Mumbai	400054	Maharashtra	1000
C000002 Manta Muzumdar	Address1	Address2	Madras	780001	Tamil Nadu	0
C000003 Chhaya Bankar	Address1	Address2	Mumbai	400057	Maharashtra	5000
C000004 Ashwini Joshi	Address1	Address2	Bangalore	560001		
C000005 Hansei Colaco	Address1	Address2	Bangalore	400060	Maharashtra	2000
C000006 Deepak Sharma	Address1	Address2	Mangalore	560050	Karnataka	0

6 rows selected.

```
SQL>
```


- c. Change the cost price of 'Trousers' to rs.950.00.

```
SQL> update product_master set CostPrice = 950 where DESCRIPTION = 'Trousers';  
1 row updated.  
SQL>
```

```

SQL> select * from PRODUCT_master;

```

PRODUC	DESCRIPTION	PROFITPERCENT	UNITMEASUR	QTYONHAND	REORDERLVL	SELLPRICE
P00001	T-Shirts		5 Piece	200	50	350
	250					
P0345	Shirts		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
	950					
P07885	Pull Overs		3 Piece	80	30	700
	450					
P07868	Denim Shirts		4 Piece	100	40	350
	250					
P07868	Lycra Tops		5 Piece	70	30	300
	175					
P07868	Skirts		5 Piece	75	30	450
	300					

- d. Change the city of the salesman to Pune.

```
SQL> update salesman_master set City = 'Pune';
```

```
4 rows updated.
```

```
SQL>
```

```

Run SQL Command Line
SQL> select * from SALESMAN_master;
SALESM SALESMANNAME      ADDRESS1
-----
ADDRESS2                  CITY                      PINCODE
-----
STATE                     SALAMT    TGTTOGET    YTDSALES
-----
REMARKS
-----
S00001 Aman              A/14
Worli                    Pune                      400002
Maharashtra              3000      100      50
Good

SALESM SALESMANNAME      ADDRESS1
-----
ADDRESS2                  CITY                      PINCODE
-----
STATE                     SALAMT    TGTTOGET    YTDSALES
-----
REMARKS
-----
S00002 Omkar              65
Nariman                  Pune                      400001
Maharashtra              3000      200      100
Good

SALESM SALESMANNAME      ADDRESS1
-----
ADDRESS2                  CITY                      PINCODE
-----
STATE                     SALAMT    TGTTOGET    YTDSALES
-----
REMARKS
-----
S00003 Raj                P-7
Bandra                   Pune                      400032
Maharashtra              3000      200      100
Good

SALESM SALESMANNAME      ADDRESS1
-----
ADDRESS2                  CITY                      PINCODE
-----
STATE                     SALAMT    TGTTOGET    YTDSALES
-----
REMARKS
-----
S00004 Ashish             A/5
Juhu                     Pune                      400044
Maharashtra              3500      200      150
Good

```

- a. Delete all salesman from the Salesman_Master whose salaries are equal to Rs.3500.

```
SQL> delete from salesman_master where SalAmt = 3500;
1 row deleted.
SQL>
```

```
SQL> select * from SALESMAN_master;
```

SALESM	SALESMANNAME	ADDRESS1	ADDRESS2	CITY	PINCODE	STATE	SALAMT	TGTTGET	YTDSALES	REMARKS
S00001	Aman	A/14		Pune	400002	Maharashtra	3000	100	50	Good
S00002	Omkar	65		Pune	400001	Maharashtra	3000	200	100	Good
S00003	Raj	P-7		Pune	400032	Maharashtra	3000	200	100	Good

```
SQL>
```

- b. Delete all products from Product_Master where the quantity on hand is equal to 100.

```
SQL> delete from product_master where QtyOnHand = 100;
3 rows deleted.
SQL>
```

```
SQL> select * from PRODUCT_master;
PRODUC DESCRIPTION      PROFITPERCENT UNITMEASUR  QTYONHAND REORDERLVL  SELLPRICE
-----
COSTPRICE
P00001 T-Shirts          5 Piece        200         50         350
250
P0345  Shirts            6 Piece        150         50         500
350
P07868 Trousers          2 Piece        150         50         850
950
PRODUC DESCRIPTION      PROFITPERCENT UNITMEASUR  QTYONHAND REORDERLVL  SELLPRICE
-----
COSTPRICE
P07885 Pull Overs       3 Piece        80          30         700
450
P07868 Lycra Tops       5 Piece        70          30         300
175
P07868 Skirts           5 Piece        75          30         450
300
6 rows selected.
SQL>
```

- c. Delete from Client_Master where the column state holds the value 'Tamil Nadu'.

```
SQL> delete from client_master where State = 'Tamil Nadu';

1 row deleted.

SQL>
```

```
SQL> select * from client_master;
```

CLIENT NAME	ADDRESS1		
ADDRESS2	CITY	PINCODE	
STATE	BAILDUE		
C00001 Ivan Bayross	Address1		
Address2	Mumbai	400054	
Maharashtra	1000		
C00003 Chhaya Bankar	Address1		
Address2	Mumbai	400057	
Maharashtra	5000		
C00004 Ashwini Joshi	Address1		
Address2	Bangalore	560001	
Karnataka	0		
C00005 Hansei Colaco	Address1		
Address2	Bangalore	400060	
C00006 Deepak Sharma	Address1		
Address2	Mangalore	560050	
Karnataka	0		

```
SQL>
```

- a. Add a column called 'Telephone' of data type integer to the Client_Master table.

```
SQL> alter table client_master add Telephone int;
Table altered.
SQL>
```

```
SQL> select * from client_master;
```

CLIENT NAME	ADDRESS1		
ADDRESS2	CITY	PINCODE	
STATE	BAILDUE	TELEPHONE	
C000001 Ivan Bayross	Address1		
Address2	Mumbai	400054	
Maharashtra	1000		
C000003 Chhaya Bankar	Address1		
Address2	Mumbai	400057	
Maharashtra	5000		
C000004 Ashwini Joshi	Address1		
Address2	Bangalore	560001	
Karnataka	0		
C000005 Hansei Colaco	Address1		
Address2	Bangalore	400060	
C000006 Deepak Sharma	Address1		
Address2	Mangalore	560050	
Karnataka	0		

```
SQL>
```

- b. Change the size off SellPrice column in Product_Master to 10, 2.


```
SQL> alter table product_master modify SellPrice INT;  
Table altered.  
SQL>
```

- a. Destroy the table Client_Master along with its data.

```
SQL> drop table client_master;  
Table dropped.  
SQL>
```

```
SQL> select * from client_master;  
select * from client_master  
      *  
ERROR at line 1:  
ORA-00942: table or view does not exist  
  
SQL>
```

- a. Change the name of the Salesman_Master to sman_mast.

```
SQL> alter table salesman_master rename to sman_mast;
```

```
Table altered.
```

```
SQL> select * from SMAN_mast;
```

SALESM	SALESMANNAME	ADDRESS1	ADDRESS2	CITY	PINCODE	STATE	SALAMT	TGTTGET	YTDSALES	REMARKS
S00001	Aman	A/14		Pune	400002	Worli	3000	100	50	Maharashtra
						Good				

SALESM	SALESMANNAME	ADDRESS1	ADDRESS2	CITY	PINCODE	STATE	SALAMT	TGTTGET	YTDSALES	REMARKS
S00002	Omkar	65		Pune	400001	Nariman	3000	200	100	Maharashtra
						Good				

SALESM	SALESMANNAME	ADDRESS1	ADDRESS2	CITY	PINCODE	STATE	SALAMT	TGTTGET	YTDSALES	REMARKS
S00003	Raj	P-7		Pune	400032	Bandra	3000	200	100	Maharashtra
						Good				

```
SQL>
```