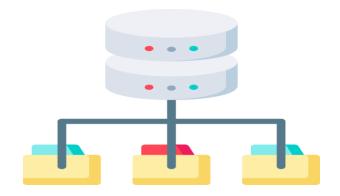




CSE2004 – DATABASE MANAGEMENT SYSTEMS



(B.Tech. COMPUTER SCIENCE AND ENGINEERING) FALL SEMESTER 2021-22

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ASSIGNMENT - 1

QUESTION – 1

Create the tables described below:

Table Name: Client Master Column Name **DataType** Clientno Varchar2(6) Name Varchar2(20) Address Varchar2(30) City Varchar2(10) Pincode Number(8) State Varchar2(15) Baldue Number(10,2)Table Name: Product Master Column Name DataType Productno Varchar2(6) Description Varchar2(15) Um(Unitmeasure) Varchar2(10) QOH(Qty on hand) Number(10) Reorderlyl Number(5) Sellprice Number(8,2) Costprice Number(8,2)

QUERY

```
CREATE TABLE Client Master (
    clientno VARCHAR2(6),
    name VARCHAR2(20),
    address VARCHAR2(30),
    city VARCHAR2(10),
    pincode NUMBER(8),
    state VARCHAR2(15),
    baldue NUMBER(10, 2)
);
CREATE TABLE Product Master (
    productno VARCHAR(6),
    description VARCHAR(15),
    um VARCHAR2(10),
    QOH NUMBER(10),
    reorderlvl NUMBER(5),
    sellprice NUMBER(8, 2),
    costprice NUMBER(8, 2)
```

```
SQL> CREATE TABLE Client_Master (
          clientno VARCHAR2(6),
  2345678
          name VARCHAR2(20),
          address VARCHAR2(30),
          city VARCHAR2(10),
          pincode NUMBER(8),
          state VARCHAR2(15),
          baldue NUMBER(10, 2)
Table created.
SQL> CREATE TABLE Product_Master (
          productno VARCHAR(6),
  2345678
          description VARCHAR(15),
          um VARCHAR2(10),
          QOH NUMBER(10),
          reorderlvl NUMBER(5),
          reorder IVI NOMBER (8, 2) sellprice NUMBER (8, 2)
          costprice NUMBER(8,
  9
     );
Table created.
```

Insert the following data into their respective tables:

a) Data for Client Master table

Clientno	Name	Address	City	Pincode	State	Baldue
C00001	Asha	A/14, worli	Mumbai	400054	Maharashtra	15000
C00002	Lakshmi	65, Nariman	Bangalore	560001	Karnataka	0
C00003	Puja	P-76, Bandra	Mumbai	400002	Maharashtra	10000
C00004	Shankar	A/6, Juhu	Mangalore	400044	Karnataka	5000
C00005	Deepak	68, TNagar	Chennai	6320018	Tamilnadu	0

b) Data for **Product Master** table

Productno	Description	Um	QOH	Reorderlyl	Sellprice	Costprice
P00001	T-Shirts	Piece	200	40	350	250
P0345	Shirts	Piece	150	50	500	350
P06744	Cotton Jeans	Piece	50	20	600	450
P0990	Chuddy	Piece	100	40	400	250
P08823	Sarries	Piece	60	50	500	300

QUERY

```
INSERT INTO Client_Master VALUES('C00001', 'Asha', 'A/14, worli', 'Mumbai', 400054
,'Maharashtra',15000);
INSERT INTO Client Master VALUES('C00002','Lakshmi','65, Nariman','Bangalore',
560001, 'Karnataka', 0);
INSERT INTO Client_Master VALUES('C00003','Puja','P-
76, Bandra', 'Mumbai', 400002, 'Maharashtra', 10000);
INSERT INTO Client_Master VALUES('C00004', 'Shankar', 'A/6, Juhu', 'Mangalore', 40
0044, 'Karnataka', 5000);
INSERT INTO Client_Master VALUES('C00005', 'Deepak', '68, TNagar', 'Chennai', 6320
018, 'Tamilnadu',0);
INSERT INTO Product_Master VALUES('P00001','T-Shirts','Piece',200,40,350,250);
INSERT INTO Product_Master VALUES('P0345','Shirts','Piece',150,50,500,350);
INSERT INTO Product_Master VALUES('P06744','Cotton Jeans','Piece',50,20,600,45
0);
INSERT INTO Product_Master VALUES('P0990','Chuddy','Piece',100,40,400,250);
INSERT INTO Product_Master VALUES('P08823','Sarries','Piece',60,50,500,300);
```

```
SQL> INSERT INTO Client_Master VALUES('C00001','Asha','A/14, worli','Mumbai',400054,'Maharashtra',15000);
1 row created.
SQL> INSERT INTO Client_Master VALUES('C00002','Lakshmi','65, Nariman','Bangalore',560001,'Karnataka',0);
SQL> INSERT INTO Client_Master VALUES('C00003','Puja','P-76, Bandra','Mumbai',400002,'Maharashtra',10000);
SQL> INSERT INTO Client_Master VALUES('C00004','Shankar','A/6, Juhu','Mangalore',400044,'Karnataka',5000);
1 row created.
SQL> INSERT INTO Client_Master VALUES('C00005','Deepak','68, TNagar','Chennai',6320018,'Tamilnadu',0);
1 row created.
SQL> INSERT INTO Product_Master VALUES('P00001','T-Shirts','Piece',200,40,350,250);
1 row created.
SQL> INSERT INTO Product_Master VALUES('P0345','Shirts','Piece',150,50,500,350);
SQL> INSERT INTO Product_Master VALUES('P06744','Cotton Jeans','Piece',50,20,600,450);
1 row created.
SQL> INSERT INTO Product_Master VALUES('P0990','Chuddy','Piece',100,40,400,250);
1 row created.
SQL> INSERT INTO Product_Master VALUES('P08823','Sarries','Piece',60,50,500,300);
1 row created.
```

Retrieving records from a table

- a) Find out the names of all the clients
- b) Retrieve the entire contents of the Client_Master table
- c) Retrieve the list of names, city and the state of all the clients
- d) List the various products available from the Product_Master table.
- e) List all the clients who are located in Mumbai.

QUERY

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

SELECT name FROM Client_Master;

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

SELECT * FROM Client_Master;

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

SELECT name, city, state FROM Client_Master;

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

SELECT description FROM Product_Master;

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

SELECT * FROM Client_Master WHERE city = 'Mumbai';
```

SQL> SELECT name FROM Client_Master;							
NAME							
Asha							
Lakshmi Puja							
Shankar Deepak							
SQL> SELECT * FROM C	SQL> SELECT * FROM Client_Master;						
CLIENT NAME		ADDRESS	CITY	PINCODE			
STATE	BALDUE						
C00001 Asha Maharashtra		A/14, worli	Mumbai	400054			
C00002 Lakshmi Karnataka	0	65, Nariman	Bangalore	560001			
C00003 Puja Maharashtra	10000	P-76, Bandra	Mumbai	400002			
CLIENT NAME			CITY	PINCODE			
STATE							
C00004 Shankar Karnataka	5000	A/6, Juhu	Mangalore	400044			
C00005 Deepak Tamilnadu	0	68, TNagar	Chennai	6320018			
SQL> SELECT name, ci	ty, stat	te FROM Client_Master;					
NAME	CITY	STATE					
Asha _.	Mumbai	Maharashtra pre Karnataka					
Lakshmi Puja	Bangalo Mumbai	ore Karnataka Maharashtra					
Shankar Deepak	Mangalo	ore Karnataka					
SQL> SELECT descript	ion FRO	M Product_Master;					
DESCRIPTION							
T-Shirts Shirts							
Cotton Jeans Chuddy							
Sarries							
SQL> SELECT * FROM Client_Master WHERE city = 'Mumbai';							
CLIENT NAME		ADDRESS	CITY	PINCODE			
STATE	BALDUE						
C00001 Asha Maharashtra	15000	A/14, worli	Mumbai	400054			
C00003 Puja Maharashtra	10000	P-76, Bandra	Mumbai	400002			

Updating records in a table

- a) Change the City of Clientno 'C00001' to 'Chennai'
- b) Change the Baldue of Clientno 'C00005' to Rs.1000
- c) Change the cost price of 'shirts' to Rs. 400
- d) Change the QOH of the 'T-shirts' to 150

QUERY

```
-- a. Change the City of Clientno 'C00001' to 'Chennai'

UPDATE Client_Master SET city = 'Chennai' WHERE clientno = 'C00001';

-- b. Change the Baldue of Clientno 'C00005' to Rs.1000

UPDATE Client_Master SET baldue = 1000 WHERE clientno = 'C00005';

-- c. Change the cost price of 'shirts' to Rs. 400

UPDATE Product_Master SET costprice = 400 WHERE description = 'Shirts';

--d. Change the QOH of the 'T-shirts' to 150

UPDATE Product_Master SET QOH = 150 WHERE description = 'T-Shirts';
```

```
SQL> UPDATE Client_Master SET city = 'Chennai' WHERE clientno = 'C00001';

1 row updated.

SQL> UPDATE Client_Master SET baldue = 1000 WHERE clientno = 'C00005';

1 row updated.

SQL> UPDATE Product_Master SET costprice = 400 WHERE description = 'Shirts';

1 row updated.

SQL> UPDATE Product_Master SET QOH = 150 WHERE description = 'T-Shirts';

1 row updated.
```

Deleting records in a table

- a) Delete all products from Product_Master where the quantity on hand is equal to 100
- b) Delete from Client Master where the column state holds the value "Tamilnadu"
- c) Delete all clients from Client_Master where the Baldue is equal to 0.

QUERY

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

DELETE FROM Product_Master WHERE QOH = 100;

-- b. Delete from Client_Master where the column
-- state holds the value "Tamilnadu"

DELETE FROM Client_Master WHERE state = 'Tamilnadu';

-- c. Delete all clients from Client_Master where the
--Baldue is equal to 0.

DELETE FROM Client_Master WHERE baldue = 0;
```

```
SQL> DELETE FROM Product_Master WHERE QOH = 100;

1 row deleted.

SQL> DELETE FROM Client_Master WHERE state = 'Tamilnadu';

1 row deleted.

SQL> DELETE FROM Client_Master WHERE baldue = 0;

1 row deleted.
```

QUESTION - 6

Altering the table structure

- a) Add a column call Profitpercent of datatype number10,2 to the Product_Master
- b) Change the size of sellprice column in Product_Master to 10,2
- c) Change the name of the column UM to UnitMeasure in Product Master
- d) Drop the column UnitMeasure.
- e) Drop the table Client_Master along with its data.

QUERY

```
-- a. Add a column call Profitpercent of datatype number10,2
-- to the Product_Master

ALTER TABLE Product_Master ADD (profitpercent NUMBER(10, 2));

-- b. Change the size of sellprice column in Product_Master to 10,2

ALTER TABLE Product_Master MODIFY (sellprice NUMBER(10, 2));

-- c. Change the name of the column UM to UnitMeasure in Product_Master

ALTER TABLE Product_Master RENAME COLUMN um TO UnitMeasure;

-- d. Drop the column UnitMeasure.

ALTER TABLE Product_Master DROP COLUMN UnitMeasure;

-- e. Drop the table Client_Master along with its data

DROP TABLE Client_Master;
```

```
SQL> ALTER TABLE Product_Master ADD (profitpercent NUMBER(10, 2));

Table altered.

SQL> ALTER TABLE Product_Master MODIFY (sellprice NUMBER(10, 2));

Table altered.

SQL> ALTER TABLE Product_Master RENAME COLUMN um TO UnitMeasure;

Table altered.

SQL> ALTER TABLE Product_Master DROP COLUMN UnitMeasure;

Table altered.

SQL> DROP TABLE Client_Master;

Table dropped.
```