

### Assignment – 3

#### 1. Count the total number of orders.

**SQL Query:**

```
SELECT COUNT(Order_no) FROM sales_order;
```

**Output:**

```
SQL> SELECT COUNT(Order_no) from sales_order;

COUNT(ORDER_NO)
-----
                6
```

#### 2. Calculate the average price of all the products.

**SQL Query:**

```
SELECT AVG(Sell_price) FROM product_master;
```

**Output:**

```
SQL> SELECT AVG(Sell_price) from product_master;

AVG(SELL_PRICE)
-----
      3663.88889
```

#### 3. Count the number of products having price greater than or equal to 1500.

**SQL Query:**

```
SELECT COUNT(Sell_price) FROM product_master
WHERE Sell_price>=1500;
```

**Output:**

```
SQL> SELECT COUNT(Sell_price) FROM product_master
      2 WHERE Sell_price>=1500;

COUNT(SELL_PRICE)
-----
                4
```

#### 4. Determine the maximum and minimum product prices. Rename the output as max\_price and min\_price respectively.

**SQL Query:**

```
SELECT MAX(Sell_price) max_price, MIN(Sell_price) min_price FROM product_master;
```

**Output:**

```
SQL> SELECT MAX(Sell_price) max_price, MIN(Sell_price) min_price FROM product_master;

MAX_PRICE  MIN_PRICE
-----
      12000         525
```

## 5. Change the City of the Client\_no 'C005' to 'Madras'.

### SQL Query:

```
UPDATE client_master
SET city='Madras'
WHERE client_no='C005';
```

### Output:

```
SQL> UPDATE client_master
2 SET city='Madras'
3 WHERE client_no='C005';
```

1 row updated.

```
SQL> SELECT * FROM client_master;
```

CLIENT	NAME	ADDRESS1	ADDRESS2	CITY	STATE	PINCODE	BALANCE_DUE
C001	Ivan Bayross	P-76	Worli	Bombay	Maharashtra	400054	15000
C002	Vandana Satial	128	Adams Street	Madras	Tamilnadu	780001	0
C003	Pramada Jaguste	157	Gopalpur	Kolkata	West Bengal	700058	5000
C004	Basu Navindgi	A/12	Nariman	Bombay	Maharashtra	400056	0
C005	Ravi Sreedharan	B/34	Rajnagar	Madras	Delhi	100001	2000
C006	Rukmini	Q-12	Bandra	Bombay	Maharashtra	400050	0

6 rows selected.

## 6. Change the Bal\_due of Client\_no 'C005' to Rs.3000/-.

### SQL Query:

```
UPDATE client_master
SET Balance_due=3000
WHERE client_no='C005';
```

### Output:

```
SQL> UPDATE client_master
2 SET Balance_due=3000
3 WHERE client_no='C005';
```

1 row updated.

```
SQL> SELECT * FROM client_master;
```

CLIENT	NAME	ADDRESS1	ADDRESS2	CITY	STATE	PINCODE	BALANCE_DUE
C001	Ivan Bayross	P-76	Worli	Bombay	Maharashtra	400054	15000
C002	Vandana Satial	128	Adams Street	Madras	Tamilnadu	780001	0
C003	Pramada Jaguste	157	Gopalpur	Kolkata	West Bengal	700058	5000
C004	Basu Navindgi	A/12	Nariman	Bombay	Maharashtra	400056	0
C005	Ravi Sreedharan	B/34	Rajnagar	Madras	Delhi	100001	3000
C006	Rukmini	Q-12	Bandra	Bombay	Maharashtra	400050	0

6 rows selected.

## 7. Delete from client\_master where the column state holds the value 'Tamilnadu'.

### SQL Query:

```
DELETE FROM client_master
WHERE state='Tamilnadu';
```

### Output:

```
SQL> DELETE FROM client_master
2 WHERE state='Tamilnadu';
DELETE FROM client_master
*
ERROR at line 1:
ORA-02292: integrity constraint (SYSTEM.SYS_C007019) violated - child record found
```

8. Add a column called 'Telephone' of data type 'number' and size 10 in the table client\_master.

**SQL Query:**

```
ALTER TABLE client_master  
ADD(Telephone NUMBER(10));
```

**Output:**

```
SQL> ALTER TABLE client_master  
2 ADD(Telephone NUMBER(10));  
  
Table altered.  
  
SQL> desc client_master;  
Name Null? Type  
-----  
CLIENT_NO NOT NULL VARCHAR2(6)  
NAME VARCHAR2(30)  
ADDRESS1 VARCHAR2(30)  
ADDRESS2 VARCHAR2(30)  
CITY VARCHAR2(15)  
STATE VARCHAR2(15)  
PINCODE NUMBER(6)  
BALANCE_DUE NUMBER(10,2)  
TELEPHONE NUMBER(10)
```

9. Change the size of data type Pin\_code to 10 in the table client\_master.

**SQL Query:**

```
ALTER TABLE client_master  
MODIFY(Pincode NUMBER(10));
```

**Output:**

```
SQL> ALTER TABLE client_master  
2 MODIFY(Pincode NUMBER(10));  
  
Table altered.  
  
SQL> desc client_master;  
Name Null? Type  
-----  
CLIENT_NO NOT NULL VARCHAR2(6)  
NAME VARCHAR2(30)  
ADDRESS1 VARCHAR2(30)  
ADDRESS2 VARCHAR2(30)  
CITY VARCHAR2(15)  
STATE VARCHAR2(15)  
PINCODE NUMBER(10)  
BALANCE_DUE NUMBER(10,2)  
TELEPHONE NUMBER(10)
```

10. Drop the column Address2 from the table client\_master.

**SQL Query:**

```
ALTER TABLE client_master  
DROP COLUMN Address2;
```

**Output:**

```
SQL> ALTER TABLE client_master  
2 DROP COLUMN Address2;  
  
Table altered.  
  
SQL> desc client_master;  
Name Null? Type  
-----  
CLIENT_NO NOT NULL VARCHAR2(6)  
NAME VARCHAR2(30)  
ADDRESS1 VARCHAR2(30)  
CITY VARCHAR2(15)  
STATE VARCHAR2(15)  
PINCODE NUMBER(10)  
BALANCE_DUE NUMBER(10,2)  
TELEPHONE NUMBER(10)
```

11. Create another table `client_master_duplicate` with the same structure of `client_master` (without copying the data of the table `client_master`).

**SQL Query:**

```
CREATE TABLE client_master_duplicate
AS (SELECT * FROM client_master WHERE 1=2);
```

**Output:**

```
SQL> CREATE TABLE client_master_duplicate
2 AS (SELECT * FROM client_master WHERE 1=2);

Table created.

SQL> desc client_master_duplicate;
Name                               Null?    Type
-----
CLIENT_NO                          VARCHAR2(6)
NAME                               VARCHAR2(30)
ADDRESS1                           VARCHAR2(30)
CITY                               VARCHAR2(15)
STATE                              VARCHAR2(15)
PINCODE                            NUMBER(10)
BALANCE_DUE                        NUMBER(10,2)
TELEPHONE                          NUMBER(10)
```

12. Insert the data into `client_master_duplicate` table from `client_master` table.

**SQL Query:**

```
INSERT INTO client_master_duplicate (SELECT * FROM client_master);
```

**Output:**

```
SQL> INSERT INTO client_master_duplicate (SELECT * FROM client_master);

6 rows created.

SQL> select * from client_master_duplicate;

CLIENT NAME | ADDRESS1 | CITY | STATE | PINCODE | BALANCE_DUE | TELEPHONE
-----
C001 | Ivan Bayross | P-76 | Bombay | Maharashtra | 400054 | 15000
C002 | Vandana Satial | 128 | Madras | Tamilnadu | 780001 | 0
C003 | Pramada Jaguste | 157 | Kolkata | West Bengal | 700058 | 5000
C004 | Basu Navindgi | A/12 | Bombay | Maharashtra | 400056 | 0
C005 | Ravi Sreedharan | B/34 | Delhi | Delhi | 100001 | 2000
C006 | Rukmini | Q-12 | Bombay | Maharashtra | 400050 | 0

6 rows selected.
```

13. Rename the table `client_master_duplicate` to `c_master`.

**SQL Query:**

```
RENAME client_master_duplicate TO c_master;
```

**Output:**

```
SQL> RENAME client_master_duplicate TO c_master;

Table renamed.
```

14. Destroy the table `c_master` with its data.

**SQL Query:**

```
DROP TABLE c_master;
```

**Output:**

```
SQL> DROP TABLE c_master;

Table dropped.
```