# **ASSIGNMENT 5.1**

Create tables for Client, Product, Salesman, Sales\_Order, and Sales\_Order Details and populate them. Retrieve data by writing queries in SQL using logical operators, aggregate operators, group by, having, order by clauses etc.

1. List the names of all clients having 'a' as the third letter in their names.

```
SQL> select name from client_master where name like '__a%';

NAME
-----
Kiara Adwani
```

2. List the clients who stay in a city whose first letter is 'K'.

```
SQL> select * from client_master where city like 'K%';

CLIENT NAME CITY PINCODE STATE BALDUE

C100 Subhadeep Roy Kolkata 700091 West Bengal 50.3

C106 Sumit Sharma Kharagpur 71191 West Bengal 10.3
```

3. List all the clients who stay in 'Mumbai' or 'Kolkata'.

```
SQL> select * from client_master where city = 'Mumbai' or city = 'Kolkata';

CLIENT NAME CITY PINCODE STATE BALDUE

C100 Subhadeep Roy Kolkata 700091 West Bengal 50.3

C103 Dilip Das Mumbai 147852 Maharastra 1000.62
```

4. List all the clients whose BalDue is greater than value 1000.

```
SQL> select * from client_master where baldue > 1000;

CLIENT NAME CITY PINCODE STATE BALDUE

C103 Dilip Das Mumbai 147852 Maharastra 1000.62

C105 Kiara Adwani Jamaipur 512091 Chattishgarh 2000.3
```

5. List all information from the Sales\_Order table for orders placed in the month of June.

```
SQL> select * from sales_order where to_char(order_date, 'MON') = 'JUN';

ORDER_ CLIENT ORDER_DA SALESM D DELY_DAT
------
0106 C101 27-06-25 S100 P 05-09-25
```

6. List the order information for Client no 'C00001' and 'C00003'.

7. List products whose selling price is greater than 500 and less than or equal to 750

8. Count the total number of order.

```
SQL> select count(*) as total from sales_order;

TOTAL
------
8
```

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

```
SQL> select max(cost_price) as max_price, min(cost_price) as min_price from product_master;

MAX_PRICE MIN_PRICE
60000 400.1
```

10. Count the number of client who live in Kolkata.

```
SQL> select count(*) as total from client_master where city = 'Kolkata';

TOTAL
.....
1
```

11. Count the number of products having price less than or equal to 500.

#### 12. List the order number and day on which clients placed their order.

# 13. List the Order Date in the format 'DD-Month-YY'.

```
SQL> select to_char(order_date, 'DD-Month-YY') as order_date from sales_order;

ORDER_DATE

27-February -25
20-February -25
11-February -25
01-February -25
14-February -25
27-June -25
26-March -25
06-February -25
8 rows selected.
```

## 14. List the date, 20 days after today's date.

```
SQL> select to_char(sysdate + 20, 'DD-MM-YY') as dayslater from dual;

DAYSLATE
------
01-04-25
```

#### 15. List name of the client who has maximum BalDue.

```
SQL> select name from client_master where baldue = (select max(baldue) from client_master);

NAME

Kiara Adwani
```

## 16. Find the difference between maximum BalDue and minimum BalDue.

# 17. Add Rs.1000/- with the salary amount of every salesmen.

SQL> select * from salesman_master;									
		CITY							
S100 S101 S102	Ram Kumar Das Pal Ashes Das Atul Becar Nigha Das	Kolkata Chennai Mumbai Kolkata	741258 147852 789654 785120	West Bengal Tamil Nadu Maharastra					
<pre>SQL&gt; update salesman_master set sal_amt = sal_amt + 1000; for rows updated. SQL&gt; select * from salesman_master;</pre>									
SALESM	SALESMAN_NAME	CITY	PINCODE	STATE	SAL_AMT				
S101 S102	Ram Kumar Das Pal Ashes Das Atul Becar Nigha Das	Kolkata Chennai Mumbai Kolkata Kolkata	147852 789654 785120	West Bengal Tamil Nadu Maharastra West Bengal West Bengal	16000 11000 6000 26000 13000				

# **ASSIGNMENT 5.2**

Create tables for Employee, Company and works and populate them. Retrieve data by writing nested queries in SQL using JOIN to combine tables and other operators like IN, BETWEEN, LIKE etc.

Create the following tables and insert the values then do the queries.

```
employee: emp_no, name, dob, sex, address, salary
company: comp no, name, address
works: emp_no, comp_no
Creating Tables ->
create table employee (
              emp_no varchar(6) primary key,
              name varchar(20) not null,
              dob date.
              sex char(1) default 'M' check (sex='M' or sex='F'),
              address varchar(50),
              salary number(10,2);
       create table company (
              comp no varchar(6) primary key,
              name varchar(20) not null,
              address varchar(50));
       create table works (
              emp_no varchar(6),
              comp_no varchar(6),
              primary key (emp_no, comp_no),
              foreign key (emp_no) references employee (emp_no),
              foreign key (emp_no) references employee (emp_no));
```

## 1. List the employees who work for company 'C00002'

#### 2. List the employees who work for company 'C00004'

```
SQL> select e.* from employee e
2 join works w on w.emp_no = e.emp_no
3 where w.comp_no = 'C00004';

EMP_NO NAME DOB S ADDRESS SALARY

E4 Ram Kumar 01-01-03 M Mumbai 25000
```

#### 3. List the employees who work for Clifford Corp

```
SQL> select e.* from employee e
2 join works w on w.emp_no = e.emp_no
3 join company c on c.comp_no = w.comp_no
4 where c.name = 'Clifford Corp';

EMP_NO NAME DOB S ADDRESS SALARY

E6 Sumit Sharma 24-03-04 M Kharagpur 10000
```

# 4. List the employees whose name ends with 'a'

SQL> select * from employee where name like '%a';								
EMP_NO	NAME	DOB	S ADDRESS	SALARY				
E6	Sumit Sharma	24-03-04	M Kharagpur	10000				

# 5. List the employees born between 1999 and 2011

```
      SQL> select * from employee where dob between to_date('01-JAN-1999', 'dd-mon-yyyy') and to_date('31-DEC-2011', 'dd-mon-yyyy');

      EMP_NO NAME
      DOB
      S ADDRESS
      SALARY

      E1
      Subhadeep Roy
      11-09-04 M Kolkata
      50000

      E2
      Anish Biswas
      07-12-03 M Kolkata
      40000

      E3
      Parna Roy Chowdhury
      11-02-04 F Behala
      30000

      E4
      Ram Kumar
      01-01-03 M Mumbai
      25000

      E6
      Sumit Sharma
      24-03-04 M Kharagpur
      10000
```