**EXPERIMENT – 4**

**SALESMAN (Salesman\_id, Name, City, Commission)**

**CUSTOMER (Customer\_id, Cust\_Name, City, Grade, Salesman\_id)**

**ORDERS (Ord\_No, Purchase\_Amt, Ord\_Date, Customer\_id, Salesman\_id)**

**Creation of tables:**

SQL> CREATE TABLE Salesman (Salesman\_id number(4), Name varchar2(20), City varchar2(20), Commission varchar2(20), primary key(Salesman\_id));

SQL> CREATE TABLE Customer1 (Customer\_id number(4), Cust\_Name varchar2(20), City varchar2(20), Grade number(3), primary key(Customer\_id), Salesman\_id references Salesman(Salesman\_id) on delete set null);

SQL> CREATE TABLE Orders (Ord\_No number(5), Purchase\_Amt number(10,2), Ord\_Date Date, Customer\_id references Customer(Customer\_id) on delete cascade , Salesman\_id references Salesman(Salesman\_id) on delete cascade);

**Insertions of values to tables:**

SQL> INSERT INTO Salesman VALUES (1000, 'JOHN', 'BANGALORE', '25%');

SQL> INSERT INTO Salesman VALUES (2000, 'RAVI', 'BANGALORE', '20%');

SQL> INSERT INTO Salesman VALUES (3000, 'KUMAR', 'MYSORE', '15%');

SQL> INSERT INTO Salesman VALUES (4000, 'SMITH', 'DELHI', '30%');

SQL> INSERT INTO Salesman VALUES (5000, 'HARSHA', 'HYDRABAD', '15%');

SQL> INSERT INTO Customer1 VALUES (10, 'PREETHI', 'BANGALORE', 100, 1000);

SQL> INSERT INTO Customer1 VALUES (11, 'VIVEK', 'MANGALORE', 300, 1000);

SQL> INSERT INTO Customer1 VALUES (12, 'BHASKAR', 'CHENNAI', 400, 2000);

SQL> INSERT INTO Customer1 VALUES (13, 'CHETHAN', 'BANGALORE', 200, 2000);

SQL> INSERT INTO Customer1 VALUES (14, 'MAMATHA', 'BANGALORE', 400, 3000);

SQL> INSERT INTO Orders VALUES (50, 5000, '04-MAY-2017', 10, 1000);

SQL> INSERT INTO Orders VALUES (51, 450, '20-JAN-2017', 10, 2000);

SQL> INSERT INTO Orders VALUES (52, 1000, '24-FEB-2017', 13, 2000);

SQL> INSERT INTO Orders VALUES (53, 3500, '13-APR-2017', 14, 3000);

SQL> INSERT INTO Orders VALUES (54, 550, '09-MAR-2017', 12, 2000);

**Query**

1. SQL> SELECT Grade, COUNT (\*)

2 FROM Customer1

3 GROUP BY Grade

4 HAVING Grade >

5 (SELECT AVG(Grade)

6 FROM Customer1

7 WHERE City = 'BANGALORE');

1. SQL> SELECT Salesman\_id, Name

2 FROM Salesman S

3 WHERE 1 <

4 (SELECT COUNT(\*)

5 FROM Customer

1. WHERE Salesman\_id=S.Salesman\_id);
2. SQL> SELECT S.Salesman\_id, Name, Cust\_name, Commission
3. FROM Salesman S, Customer1 C
4. WHERE S.City = C.City
5. UNION
6. (SELECT Salesman\_id, Name, 'NO MATCH', Commission
7. FROM Salesman
8. WHERE NOT City = ANY
9. (SELECT City
10. FROM Customer1))
11. ORDER BY 2 DESC;
12. SQL> CREATE VIEW bestsalesman

2 AS SELECT B.Ord\_date, S.Salesman\_id, S.Name

3 FROM Salesman S, Orders B

4 WHERE S.Salesman\_id = B.Salesman\_id

5 AND B. Purchase\_Amt=

6 (SELECT MAX (Purchase\_Amt)

7 FROM Orders O

8 WHERE O.Ord\_date = B.Ord\_date);

1. SQL> DELETE FROM Salesman

2 WHERE Salesman\_id=1000;