

01.09.25

TASK - 4

Independent and Correlated Nested queries:

Aim: To implement and understand nested queries in SQL, including independent and correlated sub-queries, with practical example in

Procedure:

1. create required table (eg. Guest_name, Reservations ---)
2. Insert sample data.
3. write and execute independent nested queries.
4. write and execute correlated nested queries.
5. observe and analyse the differences in execution and result.

Syntax:

```
SELECT Advaita FROM Name WHERE SSN = 'CUSTOMER02';
```

output: Advaita

2) Correlated Nested queries:

Syntax:

```
SELECT g.GuestName  
FROM Guests g, WHERE EXISTS (SELECT 1 FROM Reservations r  
WHERE r.GuestID = g.GuestID);
```

output:

Guest name

Advaita

All-in

Shanvi

3) Independent Nested query:

Syntax:

```
SELECT RoomNumber, Price FROM Rooms WHERE Price > (  
SELECT AVG(Price) FROM Rooms);
```

output :

Room Number	Price
103	8000

⇒ Correlated Nested Query :

Syntax :

```
SELECT n. ReservationID, n.TotalBill FROM Reservations n
WHERE n.TotalBill > (SELECT AVG (n2.TotalBill)
FROM Reservations n2
WHERE n2 - GuestID = n - GuestID) ;
```

output :

ReservationID	Total Bill
R2	5200
R4	8500

VEL TECH	
EX No.	
PERFORMANCE (5)	4
RESULT AND ANALYSIS (3)	5
VIVA VOCE (3)	5
RECORD (4)	5
TOTAL (15)	15
	819

819

output : Independent and correlated nested queries are executed successfully.