

SQL QUERIES WITH NESTED LOGIC :

1) SUBQUERIES USING IN :-

select customer.customer_id, customer_name from customer where customer_id in (select customer_id from orders);

customer_id	customer_name
1001	Acme Corp
1002	Global Trader
1003	Tech Solution
1004	Import Experts

select * from orders where customer_id in (select customer_id from customer where country = 'Canada');

ORDER_ID	CUSTOMER_ID	ORDER_DATE	AMOUNT
204	1003	2025-08-07	1340.00
206	1003	2025-08-10	650.00
NULL	NULL	NULL	NULL

2) SUBQUERIES USING EXISTS :-

select customer_id, customer_name from customer where exists(select customer_id from orders where customer.customer_id = orders.customer_id and order_date = '2025-08-01');

	customer_id	customer_name
▶	1001	Acme Corp

```
select o1.* from orders as o1 where
exists(select o2.* from orders as o2 where
o1.customer_id = o2.customer_id and
o1.order_id <> o2.order_id and o1.amount > o2.amount);
```

ORDER_ID	CUSTOMER_ID	ORDER_DATE	AMOUNT
202	1001	2025-08-05	1850.00
204	1003	2025-08-07	1340.00
NULL	NULL	NULL	NULL

```
select * from customer where
exists(select customer_id from orders
where customer.customer_id = orders.customer_id and orders.amount
= 1200.00);
```

CUSTOMER_ID	CUSTOMER_NAME	CONTACT_NUMBER	COUNTRY
1001	Acme Corp	9765592502	India
NULL	NULL	NULL	NULL

3) SUBQUERIES USING = :-

```
select orders.order_id,orders.customer_id,customer.customer_name
from customer join orders
on customer.customer_id = orders.customer_id where
customer.country = 'USA' limit 1;
```

	order_id	customer_id	customer_name
▶	203	1002	Global Trader