



Day 9

MySQL EXISTS





EXISTS Operator

- The **EXISTS** operator is a Boolean operator that returns either true or false.
- The **EXISTS** operator is often used to test for the existence of rows returned by the subquery.



General Syntax :

```
SELECT
    select_list
FROM
    table_name
WHERE
    [NOT] EXISTS (subquery);
```



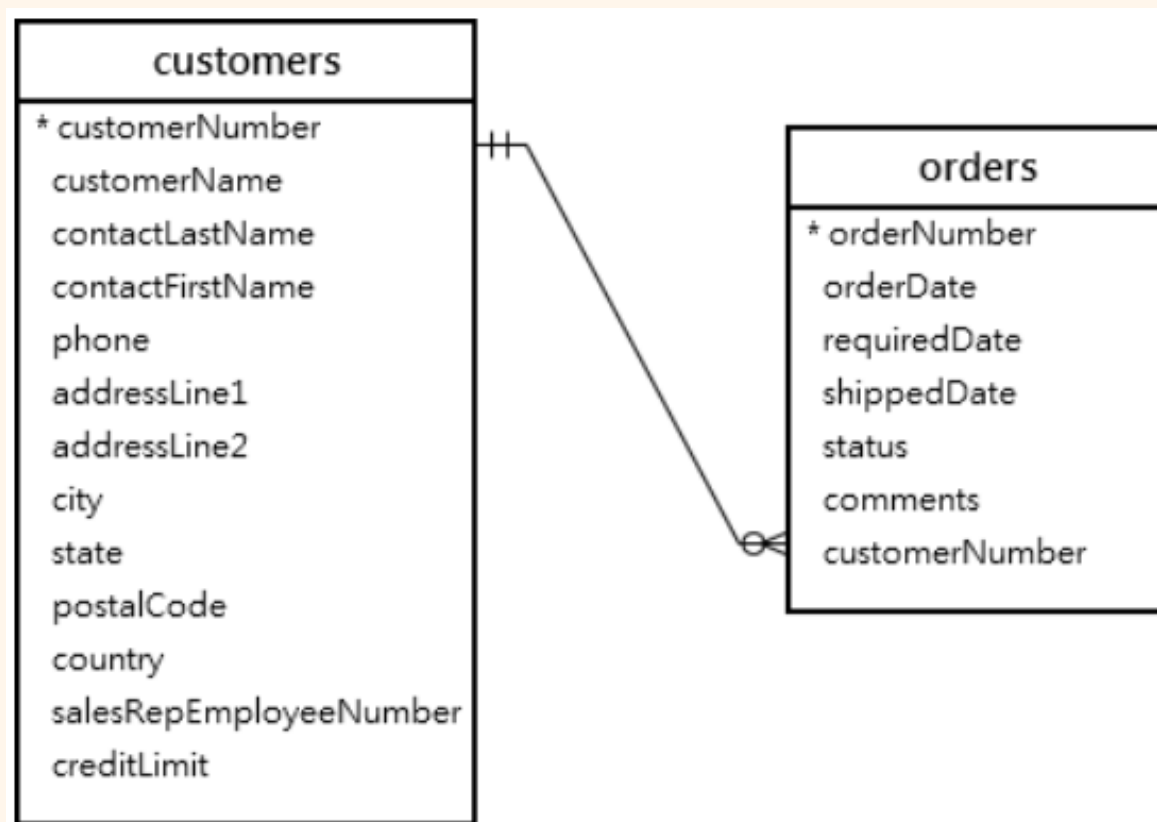
Key points :

- If the subquery returns at least one row, the **EXISTS** operator returns true, otherwise, it returns false.
- In addition, the **EXISTS** operator terminates further processing immediately once it finds a matching row, which can help improve the performance of the query.
- The **NOT** operator negates the **EXISTS** operator i.e., the **NOT EXISTS** returns true if the subquery returns no row, otherwise it returns false.



Use Case Example :

Problem Statement: To find the customer who has at least one order.



E-R Representaion of
the tables used



Query :

```
-- To find customers who have at least one order
• SELECT
    customerNumber,
    customerName
FROM
    customers
WHERE
    EXISTS(
        SELECT
            1
        FROM
            orders
        WHERE
            orders.customerNumber
            = customers.customerNumber);
```

Output :

	customerNumber	customerName
▶	103	Atelier graphique
	112	Signal Gift Stores
	114	Australian Collectors, Co.
	119	La Rochelle Gifts
	121	Baane Mini Imports
	124	Mini Gifts Distributors Ltd.
	128	Blauer See Auto, Co.
	129	Mini Wheels Co.
	131	Land of Toys Inc.
	141	Euro+ Shopping Channel
	144	Volvo Model Replicas, Co
	145	Danish Wholesale Imports
	146	Saveley & Henriot, Co.
	148	Dragon Souvenirs, Ltd.
	151	Muscle Machine Inc
	157	Diecast Classics Inc.
	161	Technics Stores Inc.
	166	Handji Gifts& Co
	167	Herkku Gifts
	171	Daedalus Designs Imports

-----> List of all customers
who have at least one
order