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EXISTS Condition

The EXISTS condition is considered "to be met" if the subquery returns at least one row.

The syntax for the EXISTS condition is:

```
SELECT columns  
FROM tables  
WHERE EXISTS ( subquery );
```

The EXISTS condition can be used in any valid SQL statement - select, insert, update, or delete.

Example #1

Let's take a look at a simple example. The following is an SQL statement that uses the EXISTS condition:

```
SELECT *  
FROM suppliers  
WHERE EXISTS  
  (select *  
   from orders  
   where suppliers.supplier_id = orders.supplier_id);
```

This select statement will return all records from the suppliers table where there is at least one record in the orders table with the same supplier_id.

Example #2 - NOT EXISTS

The EXISTS condition can also be combined with the NOT operator.

For example,

```
SELECT *  
FROM suppliers  
WHERE not exists (select * from orders Where suppliers.supplier_id =  
orders.supplier_id);
```

This will return all records from the suppliers table where there are **no** records in the *orders* table for the given supplier_id.

Example #3 - DELETE Statement

The following is an example of a delete statement that utilizes the EXISTS condition:

```
DELETE FROM suppliers
WHERE EXISTS
(select *
 from orders
 where suppliers.supplier_id = orders.supplier_id);
```

Example #4 - UPDATE Statement

The following is an example of an update statement that utilizes the EXISTS condition:

```
UPDATE suppliers
SET supplier_name ( SELECT customers.name
=                 FROM customers
                 WHERE customers.customer_id =
                 suppliers.supplier_id)
WHERE EXISTS
( SELECT customers.name
  FROM customers
  WHERE customers.customer_id = suppliers.supplier_id);
```

Example #5 - INSERT Statement

The following is an example of an insert statement that utilizes the EXISTS condition:

```
INSERT INTO suppliers
(supplier_id, supplier_name)
SELECT account_no, name
FROM suppliers
WHERE exists (select * from orders Where suppliers.supplier_id = orders.supplier_id);
```