

# AND conditions in SQL Server

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In SQL Server, the AND condition (or AND operator) is used to test two or more conditions in SELECT, INSERT, UPDATE, or DELETE statements.

## AND condition syntax

```
WHERE '?i?u ki?n 1'  
AND '?i?u ki?n 2'  
...  
AND '?i?u ki?n n';
```

## Variable name or variable value

### Condition 1, condition 2 . conditions n

The conditions that the record must meet to be selected.

### Note

1. The AND condition in SQL Server allows two or more conditions to be checked.
2. The AND condition in SQL Server requires that all conditions be met and the new record is included in the result set.

### For example - with SELECT statement

```
SELE CT *  
FROM nhanvien  
WHERE ho = 'Smith'  
AND nhanvie n_id 499;
```

The result in this example will return all employees with the surname Smith and nhanvien\_id less than 499. Because \* is used in the SELECT statement, all fields in the table are in the result set.

### Example - table combination

```
SELECT nhanvien.nhanvien_id, danhba.ho  
FROM nhanvien, danhba  
WHERE nhanvien.nhanvien_id = danhba.danhba_id  
AND nhanvien.ten = 'Sarah';
```

Although the above example still works, it will usually need to be written in INNER JOIN.

```
SELECT nha nvien.nhanvien_id, danhba.ho
FROM nhanvien
INNER JOIN danhba
ON nhanvien.nhanvien_id = danhba.danhba_id
WHERE nhanvien.ten = 'Sarah';
```

In this example, the returned result will include all the rows with the employee's name as Sarah in the table. Table of names and names connected by nhanvien\_id and danhba\_id.

Note that all information fields are named after the table name (eg danhba.ten). This is required, to avoid ambiguity about the referenced information field, for example, when two tables have the same information field.

In this case, the returned result will only be displayed with the\_id and cough.

### **Example - INSERT command**

```
INSERT INTO danhba
(danhba_id, ho, ten)
SELECT nhanvien_id, ho, ten
FROM nhanvien
WHERE ten = 'Joanne'
AND nhanvien_id >= 800;
```

The AND condition in this example will insert the list of all fields, ten, and coughs from the table with those named Joanne and nhanvien\_id greater than or equal to 800.

### **Example - UPDATE command**

```
UPDATE nhanvien
SET ho = 'Johnson'
WHERE ho = 'TBD'
AND nhanvien_id < 300;
```

This example will update all the values in the table to Johnson when the employee's surname is valued as TBD and nhanvien\_id less than 300.

### **Example - DELETE command**

```
DELETE FROM nhanvien
WHERE ten = 'Darlene'
AND ho = 'Henderson';
```

This command will delete all records in the table if the employee is named Darlene and they are Henderson.

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