

## Example Scenario

Suppose you have two tables:

1. **Employee Table** with employee information but lacking department names:

EmployeeID	DepartmentID
1	101
2	102
3	101
4	103

2. **Department Table** which maps DepartmentID to DepartmentName:

DepartmentID	DepartmentName
101	Sales
102	Marketing
103	IT

Your goal is to add a calculated column in the **Employee Table** that shows the **DepartmentName** for each employee by looking up the **DepartmentID** in the **Department Table**.

### DAX Formula with LOOKUPVALUE

In the **Employee Table**, add a calculated column with the following DAX formula:

```
DepartmentName = LOOKUPVALUE(  
    Department[DepartmentName],      // Result column  
    Department[DepartmentID],        // Search column  
    Employee[DepartmentID]           // Value to match  
)
```

### Explanation of the DAX Formula

1. **Department[DepartmentName]** : This is the column from the **Department Table** from which you want to retrieve the value.
2. **Department[DepartmentID]** : This is the column in the **Department Table** to search in.
3. **Employee[DepartmentID]** : This is the value from the **Employee Table** that will match **Department[DepartmentID]** in the **Department Table**.

### Result

The calculated column **DepartmentName** in the **Employee Table** will look like this:

EmployeeID	DepartmentID	DepartmentName
1	101	Sales
2	102	Marketing
3	101	Sales
4	103	IT