## Matlab Join Tables by Keys

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## **Left Join Two Tables Together**

There is a table with simulation results, and a table with data information. Join together with common keys.

First generate the simulation table.

category	rho	numberWorkersSimu	meanWageSimu	
"C001"	0.5	5.5	6.6	
"C002"	0.5	3.3	4.4	
"C001"	0.25	2.5	3.6	
"C002"	0.25	0.3	1.4	
	"C001" "C002" "C001"	"C001" 0.5 "C002" 0.5 "C001" 0.25	"C001" 0.5 5.5 "C002" 0.5 3.3 "C001" 0.25 2.5	

Second generate the data table.

```
        year
        category
        numberWorkersData
        meanWageData

        1
        "C001"
        1
        2

        2
        "C002"
        2
        3
```

Third merge the tables together with left-join, that will match by all variables with the same name.

```
% left-join tables together
tb_solu_joined_data = join(tb_solution, tb_data);
```

```
% Rescale a variable
tb_solu_joined_data{:, "numberWorkersData"} = tb_solu_joined_data{:, "numberWorkersData"}*10;
% Display
disp(tb_solu_joined_data);
```

year	category	rho	numberWorkersSimu	meanWageSimu	numberWorkersData	meanWageData
1	"C001"	0.5	5.5	6.6	10	2
2	"C002"	0.5	3.3	4.4	20	3
1	"C001"	0.25	2.5	3.6	10	2
2	"C002"	0.25	0.3	1.4	20	3