

Modify Units, Descriptions and Table Variable Names

This example shows how to access and modify table properties for variable units, descriptions and names. You also can edit these property values using the Variables Editor.

Load Sample Data

Load the sample patients data and create a table.

```
load patients
BloodPressure = [Systolic Diastolic];

T = table(Gender, Age, Height, Weight, Smoker, BloodPressure);
```

Display the first five rows of the table, T.

```
T(1:5, :)
```

```
ans = 5×6 table
```

...

	Gender	Age	Height	Weight	Smoker
1	'Male'	38	71	176	1
2	'Male'	43	69	163	0
3	'Female'	38	64	131	0
4	'Female'	40	67	133	0
5	'Female'	49	64	119	0

T has 100 rows and 6 variables.

Add Variable Units

Specify units for each variable in the table by modifying the table property, `VariableUnits`. Specify the variable units as a cell array of character vectors.

```
T.Properties.VariableUnits = {' ' 'Yrs' 'In' 'Lbs' ' ' ' '};
```

An individual empty character vector within the cell array indicates that the corresponding variable does not have units.

Add a Variable Description for a Single Variable

Add a variable description for the variable, `BloodPressure`. Assign a single character vector to the element of the cell array containing the description for `BloodPressure`.

```
T.Properties.VariableDescriptions{'BloodPressure'} = 'Systolic/Diastolic';
```

You can use the variable name, 'BloodPressure', or the numeric index of the variable, 6, to index into the cell array of character vectors containing the variable descriptions.

Summarize the Table

View the data type, description, units, and other descriptive statistics for each variable by using `summary` to summarize the table.

```
summary(T)
```

Variables:

Gender: 100×1 cell array of character vectors

Age: 100×1 double

Units: Yrs

Values:

Min	25
Median	39
Max	50

Height: 100×1 double

Units: In

Values:

Min	60
Median	67
Max	72

Weight: 100×1 double

Units: Lbs

Values:

Min	111
Median	142.5
Max	202

Smoker: 100×1 logical

Values:

True	34
False	66

BloodPressure: 100×2 double

Description: Systolic/Diastolic

Values:

	BloodPressure_1	BloodPressure_2
Min	109	68
Median	122	81.5

The `BloodPressure` variable has a description and the `Age`, `Height`, `Weight`, and `BloodPressure` variables have units.

Change a Variable Name

Change the variable name for the first variable from `Gender` to `Sex`.

```
T.Properties.VariableNames{'Gender'} = 'Sex';
```

Display the first five rows of the table, `T`.

```
T(1:5, :)
```

```
ans = 5×6 table
```

...

	Sex	Age	Height	Weight	Smoker
1	'Male'	38	71	176	1
2	'Male'	43	69	163	0
3	'Female'	38	64	131	0
4	'Female'	40	67	133	0
5	'Female'	49	64	119	0

In addition to properties for variable units, descriptions and names, there are table properties for row and dimension names, a table description, and user data.