

Pulling rows from a table based on unique values in a variable.

Max and I figured out how to pull rows from a table based on unique values in a variable of the table.

Here is a table:

```
tt = array2table([1 2 3 4 ; 1 5 9 0; 3 2 3 1; 5 6 9 7; 3 99 22 11])
```

```
tt = 5x4 table
```

	Var1	Var2	Var3	Var4
1	1	2	3	4
2	1	5	9	0
3	3	2	3	1
4	5	6	9	7
5	3	99	22	11

Let's extract three rows from this table that have unique values in `tt.Var1`.

We do this by calling `unique()` using a vector with three values in it.

```
[uVar1, IA, IC] = unique(tt.Var1)
```

```
uVar1 = 3x1
```

```
1
```

```
3
```

```
5
```

```
IA = 3x1
```

```
1
```

```
3
```

```
4
```

```
IC = 5x1
```

```
1
```

```
1
```

```
2
```

```
3
```

```
2
```

The results from `unique()`:

uVar1—The array of unique values.

IA—A vector of the indices of `tt.Var1` that contain the unique values.

IC—A vector of indices you could use to recreate `tt.Var1` using `uVar1`.

Creating the table using unique values

We make the table of unique members by using `IA` as an index into `tt`.

```
utt = tt(IA,:)
```

```
utt = 3x4 table
```

	Var1	Var2	Var3	Var4
1	1	2	3	4
2	3	2	3	1
3	5	6	9	7