

## Reference Summary of Useful Operations

If you remember other operations, you are welcome to use them – this is just for reference so you don't have to remember core operations.

### Table operations

A colname is a string

- `filter-by(Table, Row → Boolean) → Table`
- `sort-by(Table, colname, true-if-ascending-order) → Table`
- `transform-column(Table, colname, Row → value) → Table`
- `build-column(Table, colname, Row → value) → Table`
- `table.select-columns(List[colnames]) → Table`
- `table.get-column(colname) → List`
- `row[colname]` to access a cell
- `mean(Table, colname) → Number` # average of nums in a column
- `sum(Table, colname) → Number` # sum nums in a column

### List operations -- Pyret

- `L.map(elt → value, List[elt]) → List[value]`
- `L.filter(elt → Boolean, List[elt]) → List[elt]`
- `link(elt, List[elt]) → List[elt]`
- `L.append(List, List) → List`
- `L.member(elt, List) → Boolean`
- `length(List) → Number`

### List operations -- Python

- `lst.append(elt) → None`
- `lst.extend(list) → None` # like append, but adds multiple elements
- `lst.contains(elt) → bool`
- `len(list) → int`