:mayo   "Mayo"   :m1

:cake   "Cake"   :c4

:cake   "Cake"   :c6

`?recipe ?name   ?i`

```
:m1 :unit :cups
:c4 :unit :cups
:c6 :unit :cups
```

`?i :unit :cups`

```
:m1 :unit :cups
:m1 :unit :cups
```

```
:c4 :unit :cups
:c4 :unit :cups
```

`:c6 :unit :cups`
`:c6 :unit :cups`

`:m2 :unit :cups`

`:m3 :unit :cups`

`:c5 :unit :cups`

:c7 :unit :cups

:mayo "Mayo" :m2

:mayo "Mayo" :m3

:cake   "Cake"   :c5

:cake   "Cake"   :c7

```
:mayo    "Mayo"    :m1
:cake    "Cake"    :c4
:cake    "Cake"    :c6
```

```
?recipe  ?name   ?i
 :mayo    "Mayo"  :m1
 :cake    "Cake"  :c4
 :cake    "Cake"  :c6
```

Other Considerations

- Join Ordering (optimizing)

- Operations
  - disjunctions
  - bindings
  - subtractions
  - aggregates

- Durability
  Indexes in:
  - B*-tree
  - Hitchhiker trees
  - etc.

Photo: Rob Schreckhis @robschreckhise