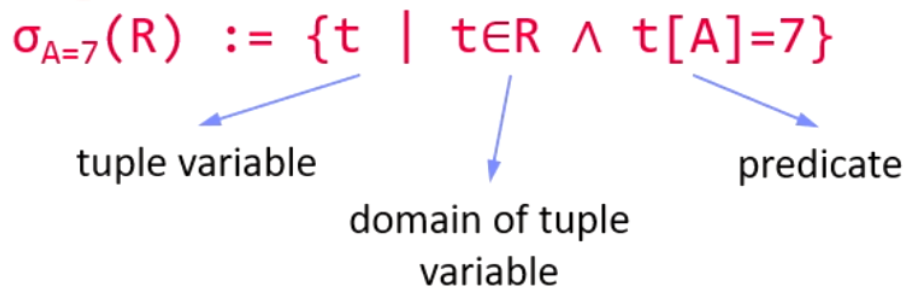


- alternative to [[Relational Algebra]]

## Relational Calculus Overview

- tuple relational calculus
  - tuple  $\rightarrow$  set
- domain relational calculus
  - attribute  $\rightarrow$  set

## Characteristics Calculus Expression



- - left side relational algebra
  - right side tuple calculus
- Quantifiers
- does not specify operation order
- consists of variables, constants, comparisons, quantifier...
- formulas
  - free unbound variables  $\Rightarrow$  define result

