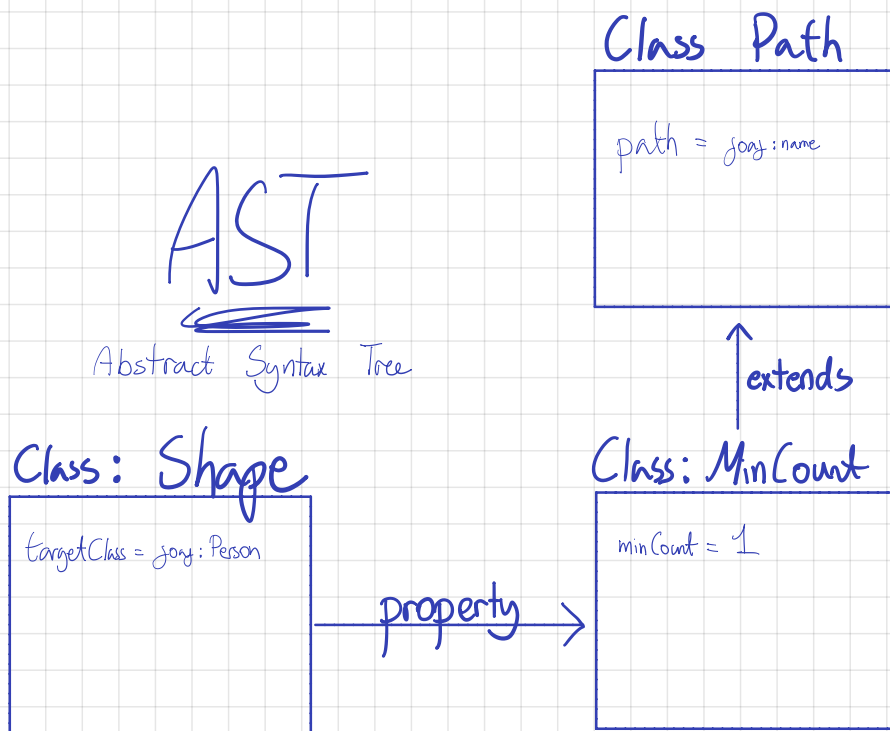


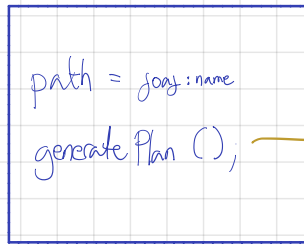
```

[] a sh:Shape;
sh:targetClass    joy:Person;
sh:property [
    sh:minCount 1;
    sh:path     joy:name;
].

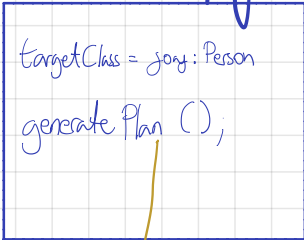
```



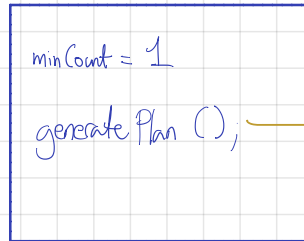
Class Path



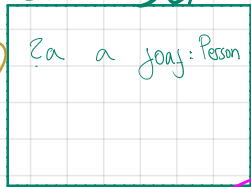
Class: Shape



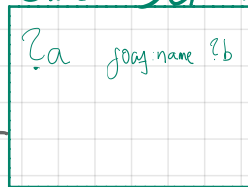
Class: MinCount



Class: Select

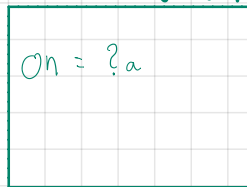


Class: Select

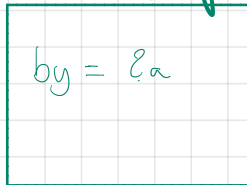


Indicates flow of data

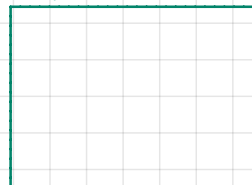
Class: LeftJoin



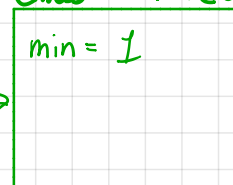
Class: Group By

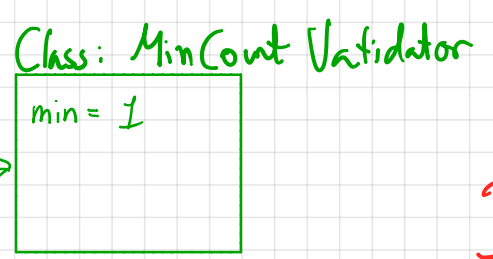
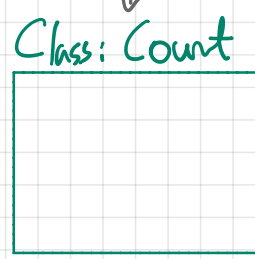
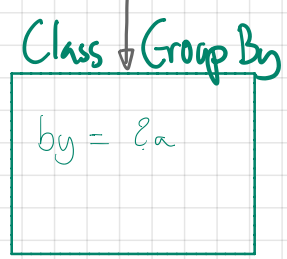
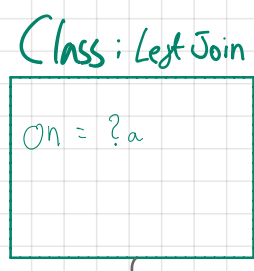
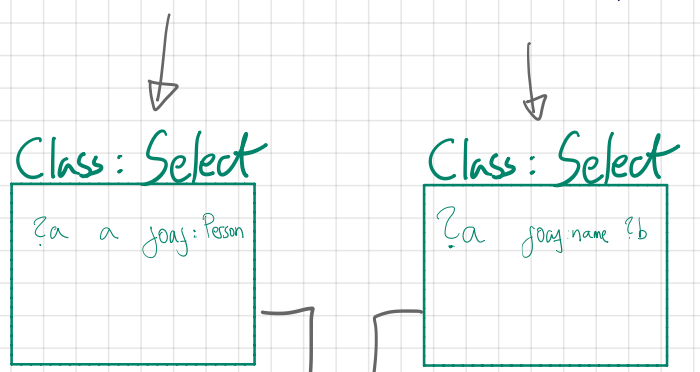


Class: Count



Class: MinCount Validator





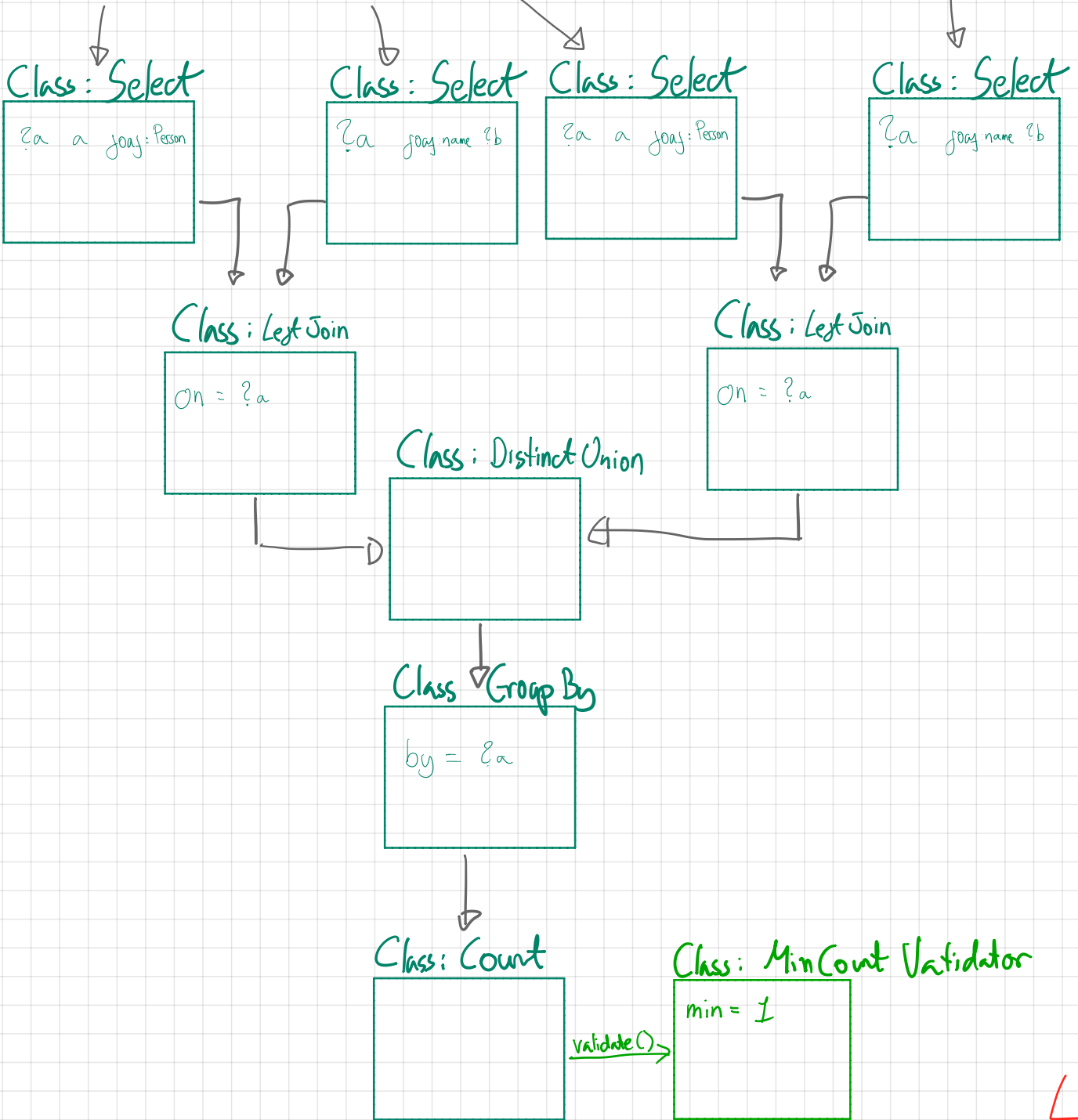
validate()

new

- :heshan a joay: Person.
- :håvard a joay: Person.
- :pekr a joay: Person.
- :rebecca a joay: Person.
- :rebecca joay: name "Rebecca".

Existing base sail

- :heshan joay: name "Heshan".
- :håvard joay: age 29.



new

Existing
base sail

Class: Select
?a a joag:Person

Class: Select
?a joag:name ?b

Class: Select
?a a joag:Person

This should be a SPARQL query using VALUES

Class: Left Join
on = ?a

Class: Collect

Class: Values Select
?a joag:name ?name

Class: Left Join
on = ?a

Class: Distinct Union

Class: Group By
by = ?a

Class: Count

Class: MinCount Validator
min = 1

This rewrite should happen when:

$$\text{count}(\text{new}(a \text{ joag:Person})) < \text{count}(\text{existing}(joag:name))$$