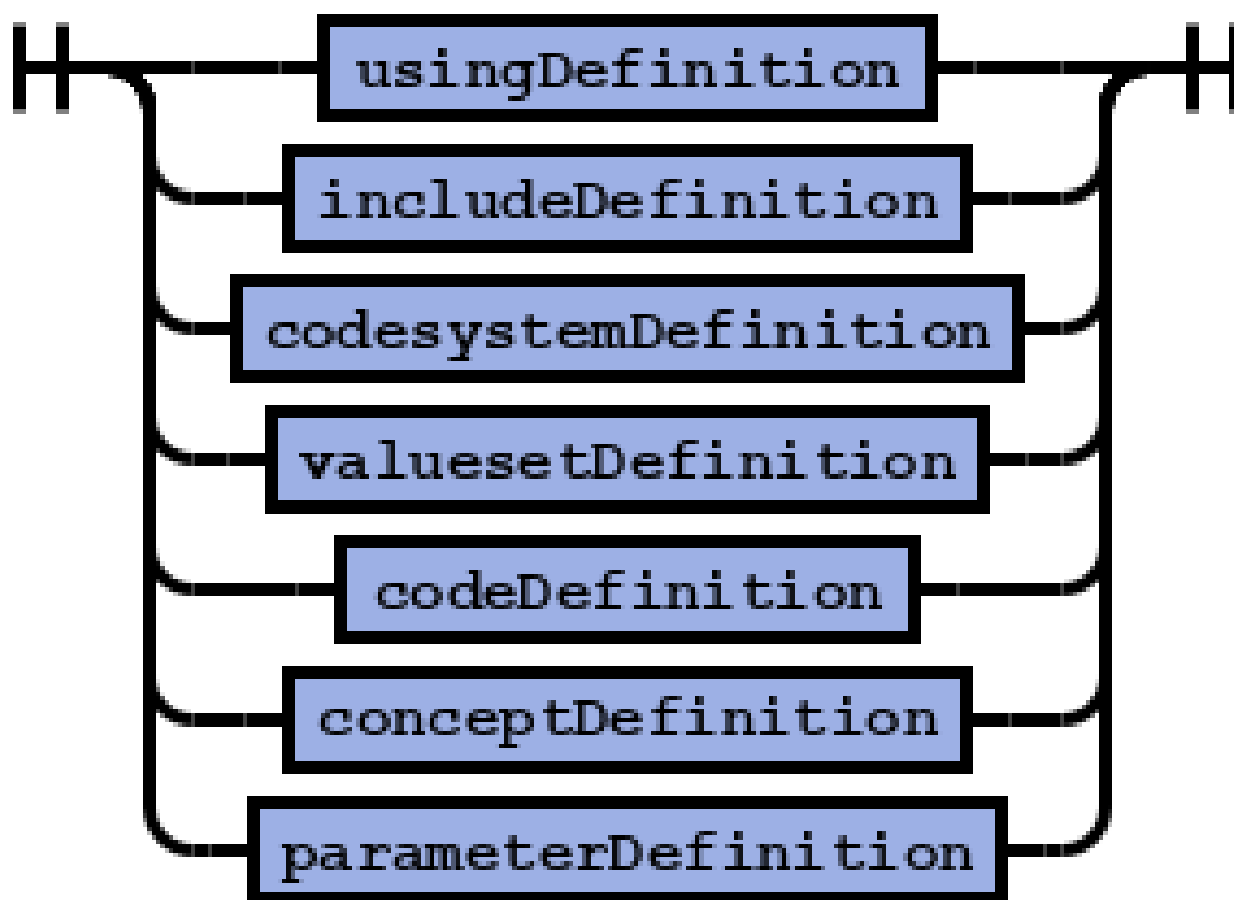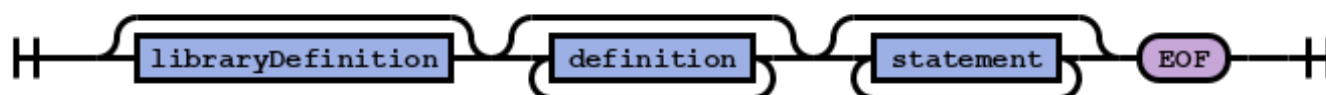definition :

library :

libraryDefinition :

usingDefinition :
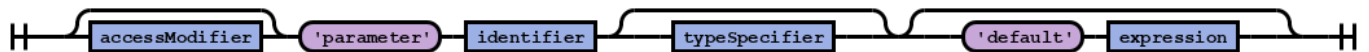

includeDefinition :
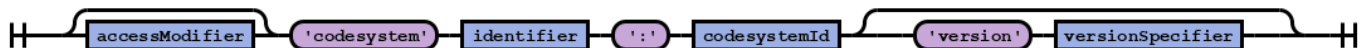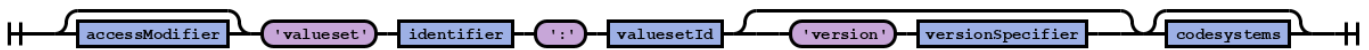

localIdentifier :
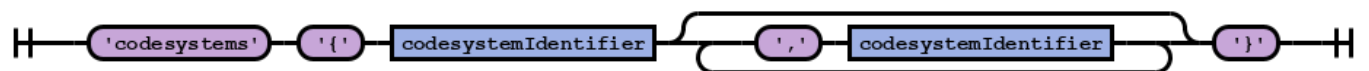accessModifier :

parameterDefinition :

codesystemDefinition :

valuesetDefinition :

codesystems :

codesystemIdentifier :

libraryIdentifier :

codeDefinition :

```
⊢⊣———[ identifier ]———⊢⊣
```

```
⊢⊣—[accessModifier]—('code')—[identifier]—(':')—[codeId]—('from')—[codesystemIdentifier]—[displayClause]—⊢⊣
```

conceptDefinition :

```
⊢⊣—[accessModifier]—('concept')—[identifier]—(':')—('{')—[codeIdentifier]—(',')—[codeIdentifier]—('}')—[displayClause]—⊢⊣
```
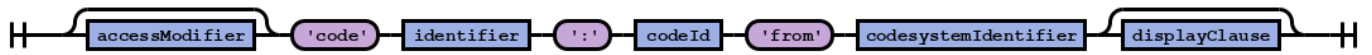
codeIdentifier :
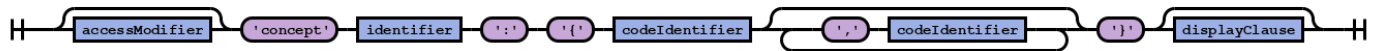
```
⊢⊣—[libraryIdentifier]—('.')—[identifier]—⊢⊣
```

codesystemId :

```
⊢⊣———( STRING )———⊢⊣
```

valuesetId :

```
⊢⊣———( STRING )———⊢⊣
```
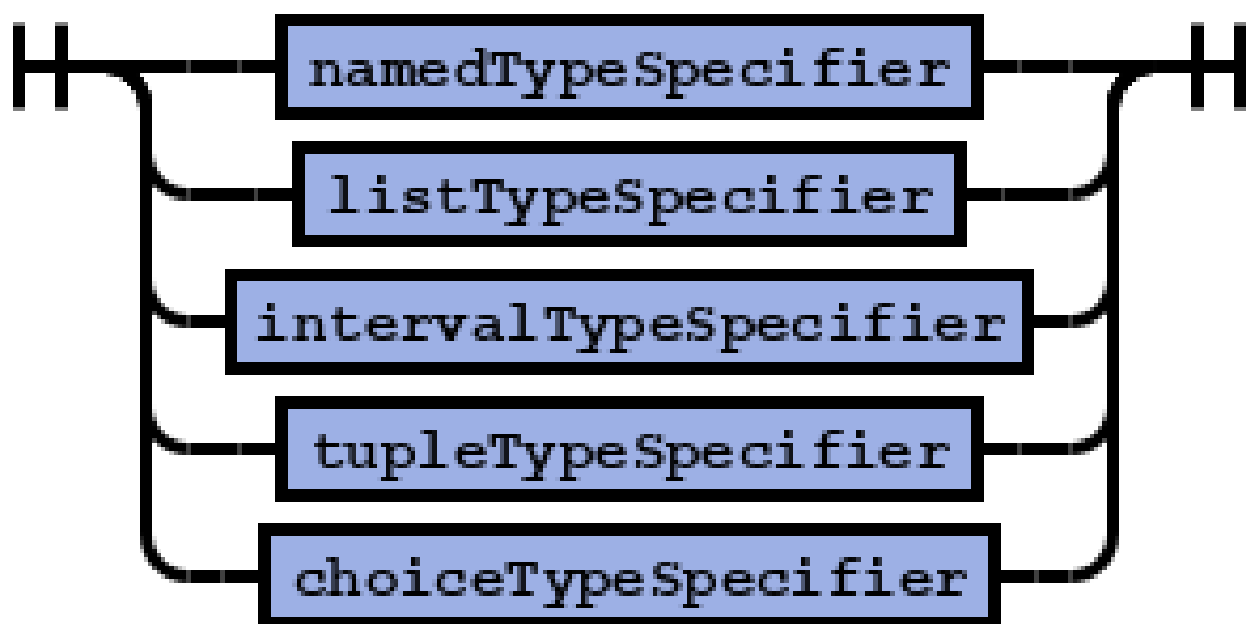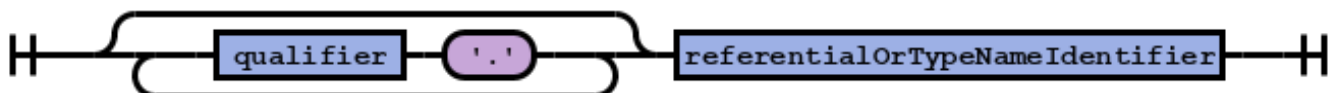
versionSpecifier :
codeId :

typeSpecifier :

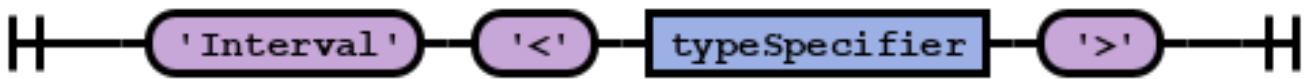namedTypeSpecifier :

modelIdentifier :
listTypeSpecifier :

intervalTypeSpecifier :

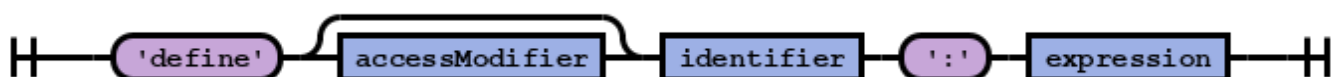tupleTypeSpecifier :

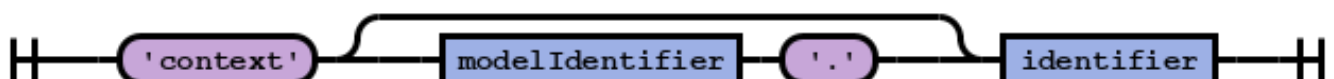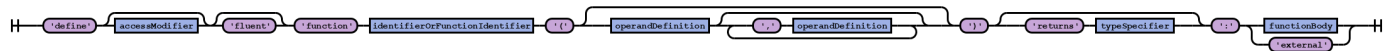tupleElementDefinition :

choiceTypeSpecifier :

statement :

expressionDefinition :

contextDefinition :

functionDefinition :

- expressionDefinition
- contextDefinition
- functionDefinition

'define' accessModifier 'fluent' 'function' identifierOrFunctionIdentifier '(' operandDefinition ',' operandDefinition ')' 'returns' typeSpecifier ':' functionBody 'external'

operandDefinition :

referentialIdentifier typeSpecifier

functionBody :

expression

querySource :

- retrieve
- qualifiedIdentifierExpression
- '(' expression ')'
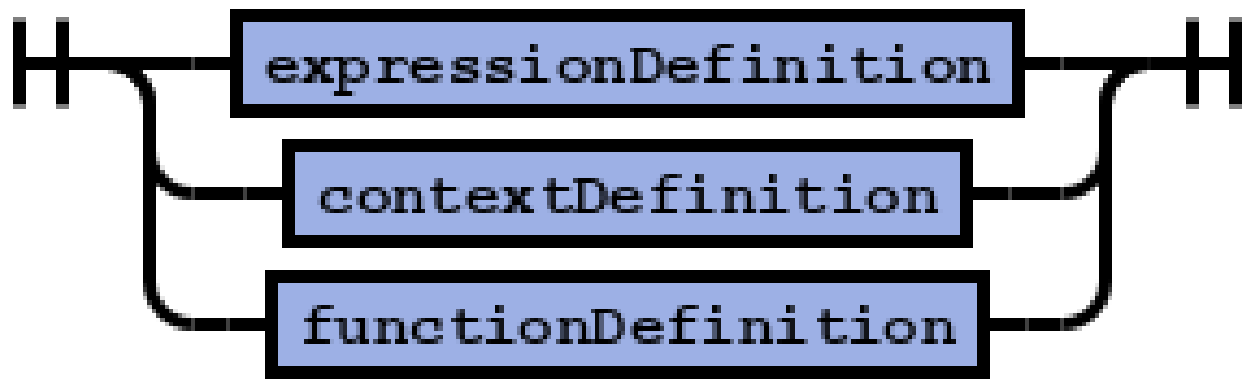
aliasedQuerySource :
alias :

queryInclusionClause :

withClause :

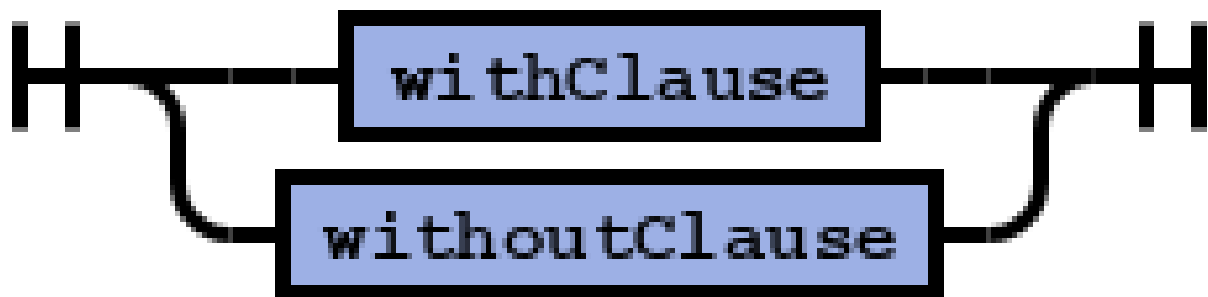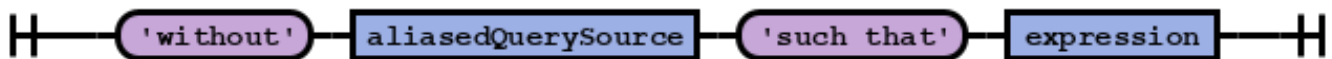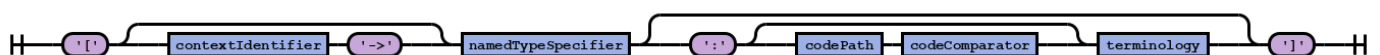withoutClause :

retrieve :

contextIdentifier :

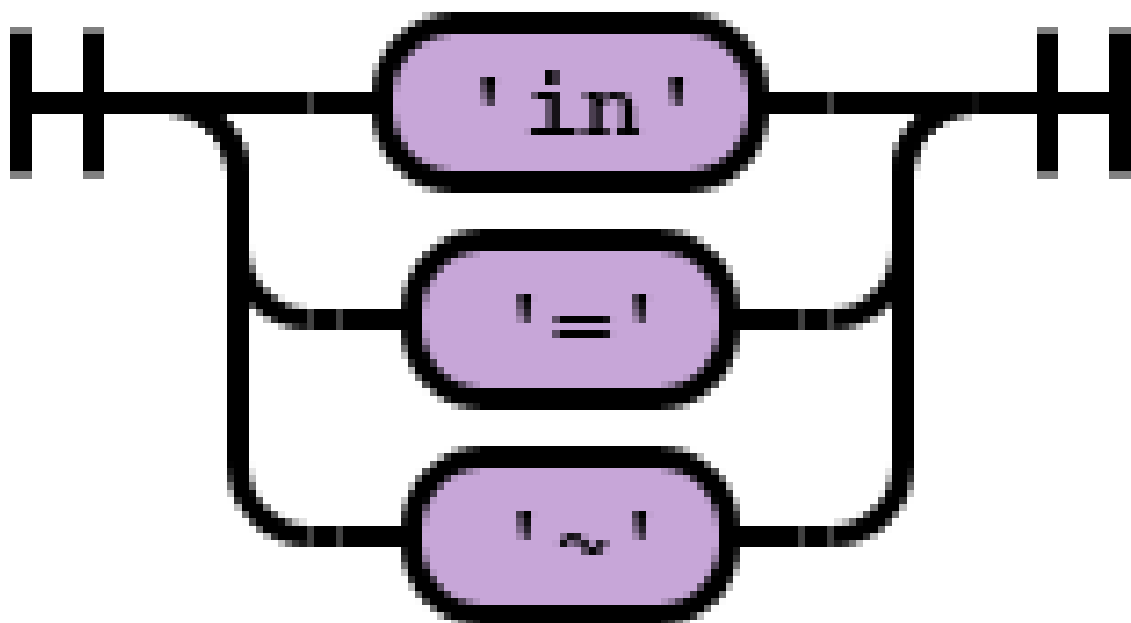codePath :

codeComparator :

terminology :

qualifier :

query :
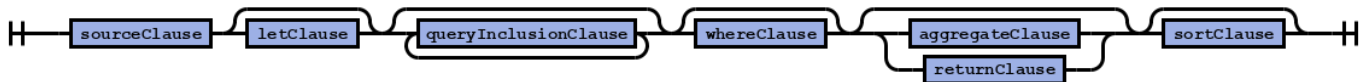
sourceClause :

letClause :

letClauseItem :

whereClause :
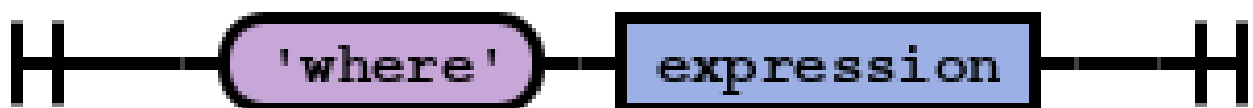
returnClause :
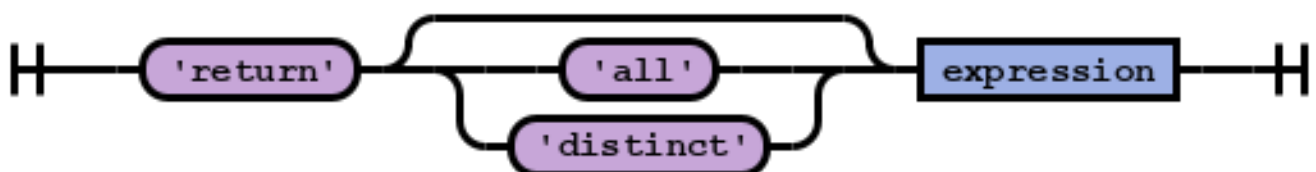
aggregateClause :
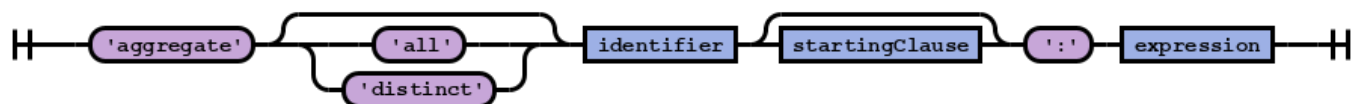
startingClause :
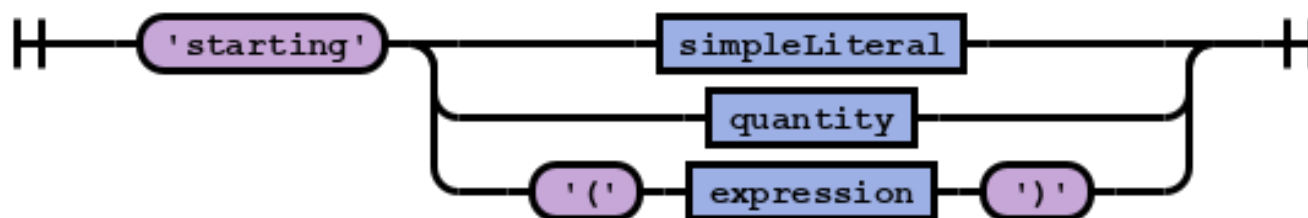
sortClause :
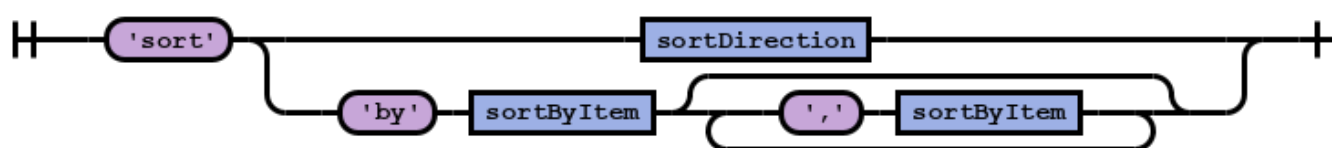
sortDirection :
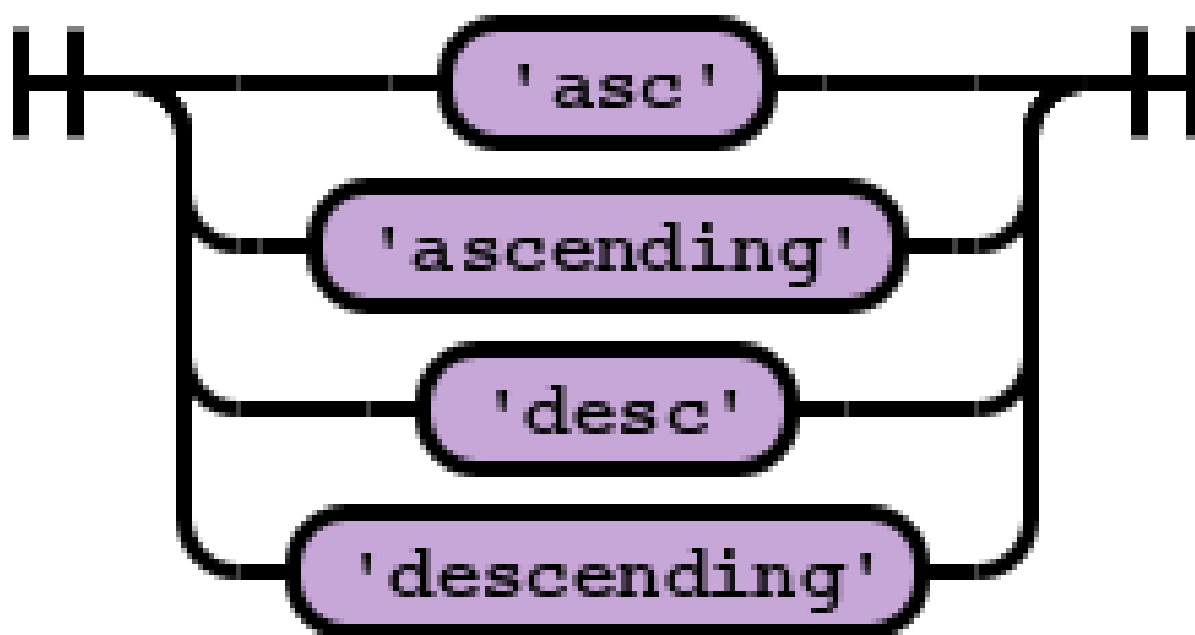
sortByItem :

qualifiedIdentifier :
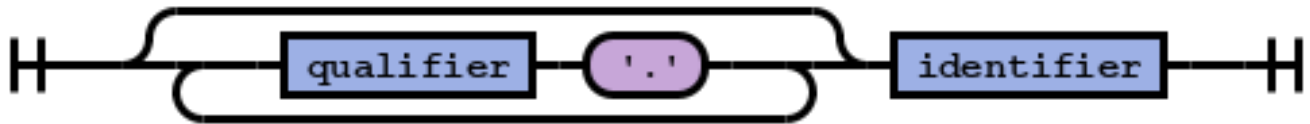
qualifiedIdentifierExpression :
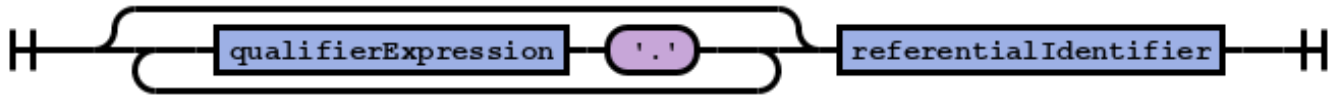
qualifierExpression :

simplePath :
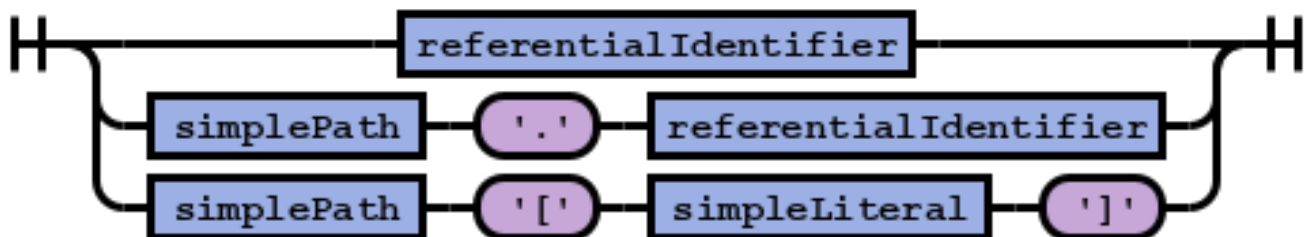
simpleLiteral :
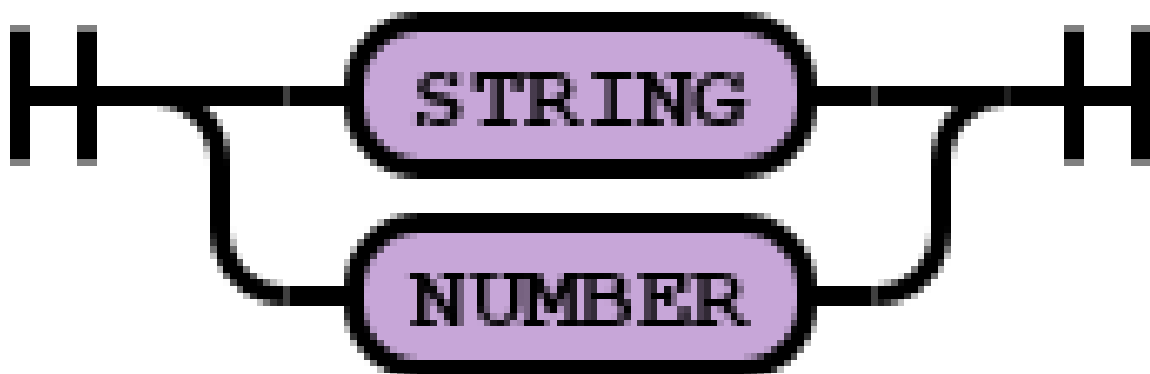
expression :
dateTimePrecision :
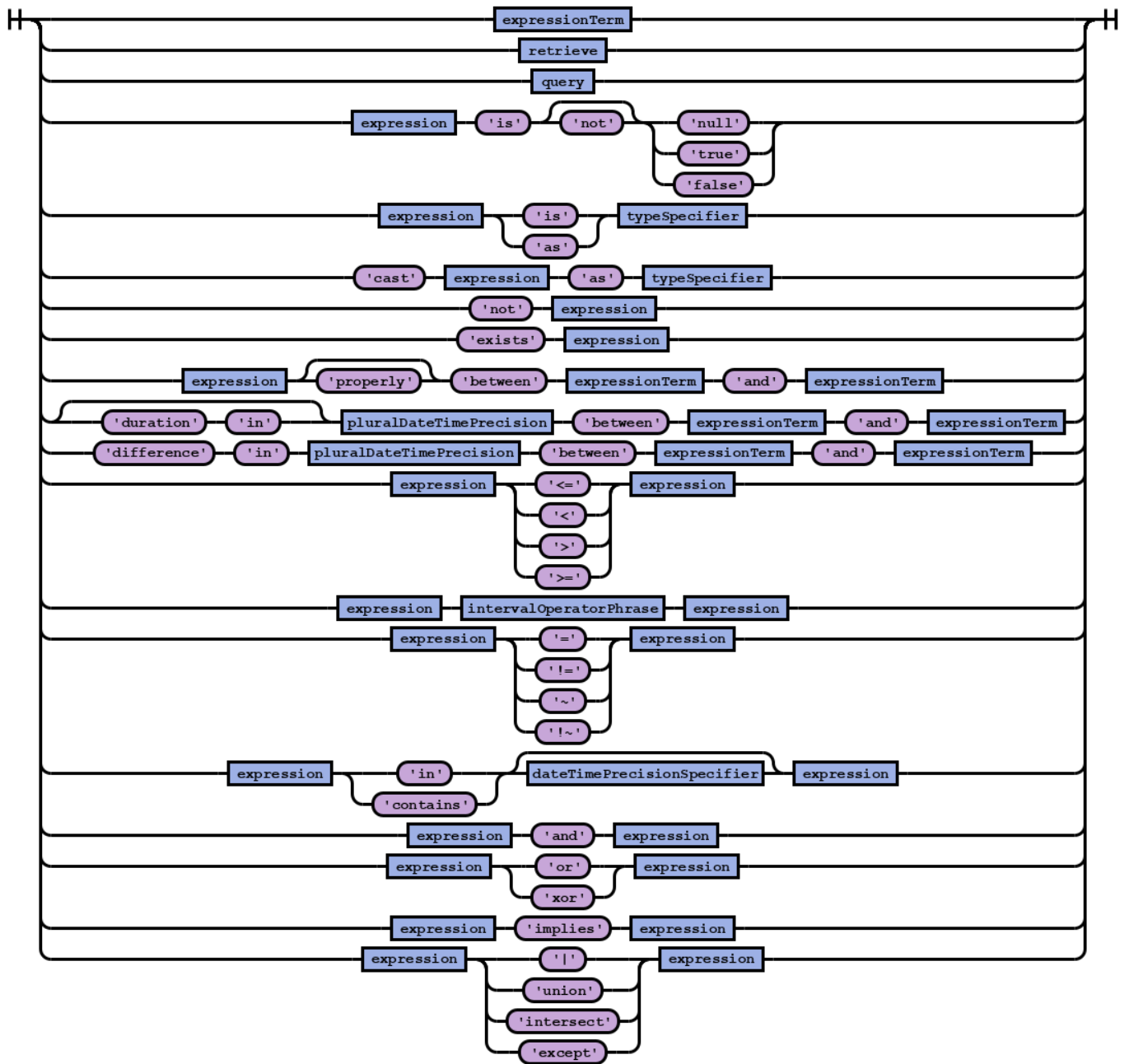
dateTimeComponent :
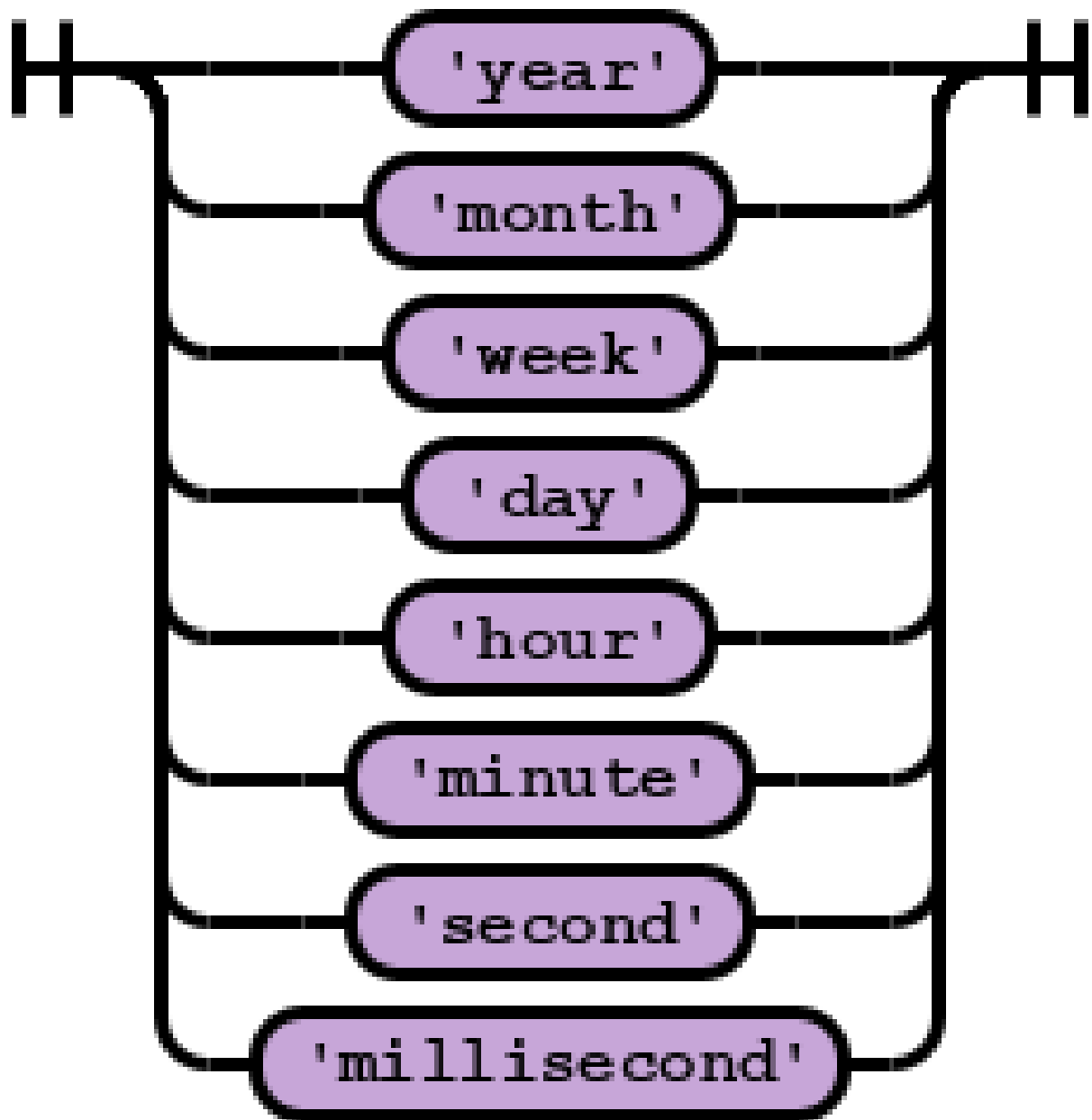
pluralDateTimePrecision :
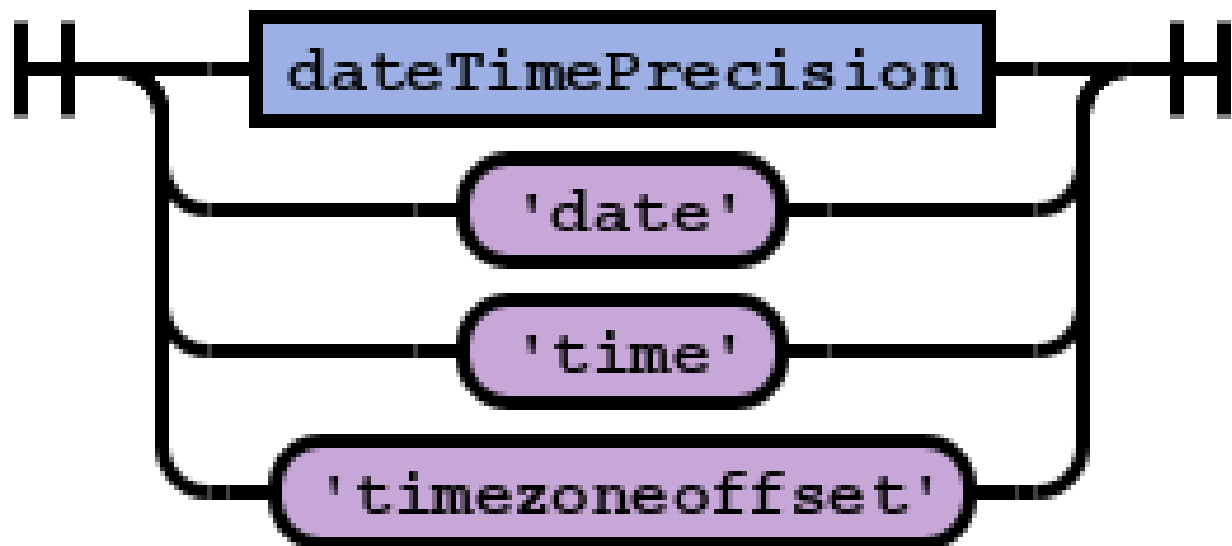
expressionTerm :
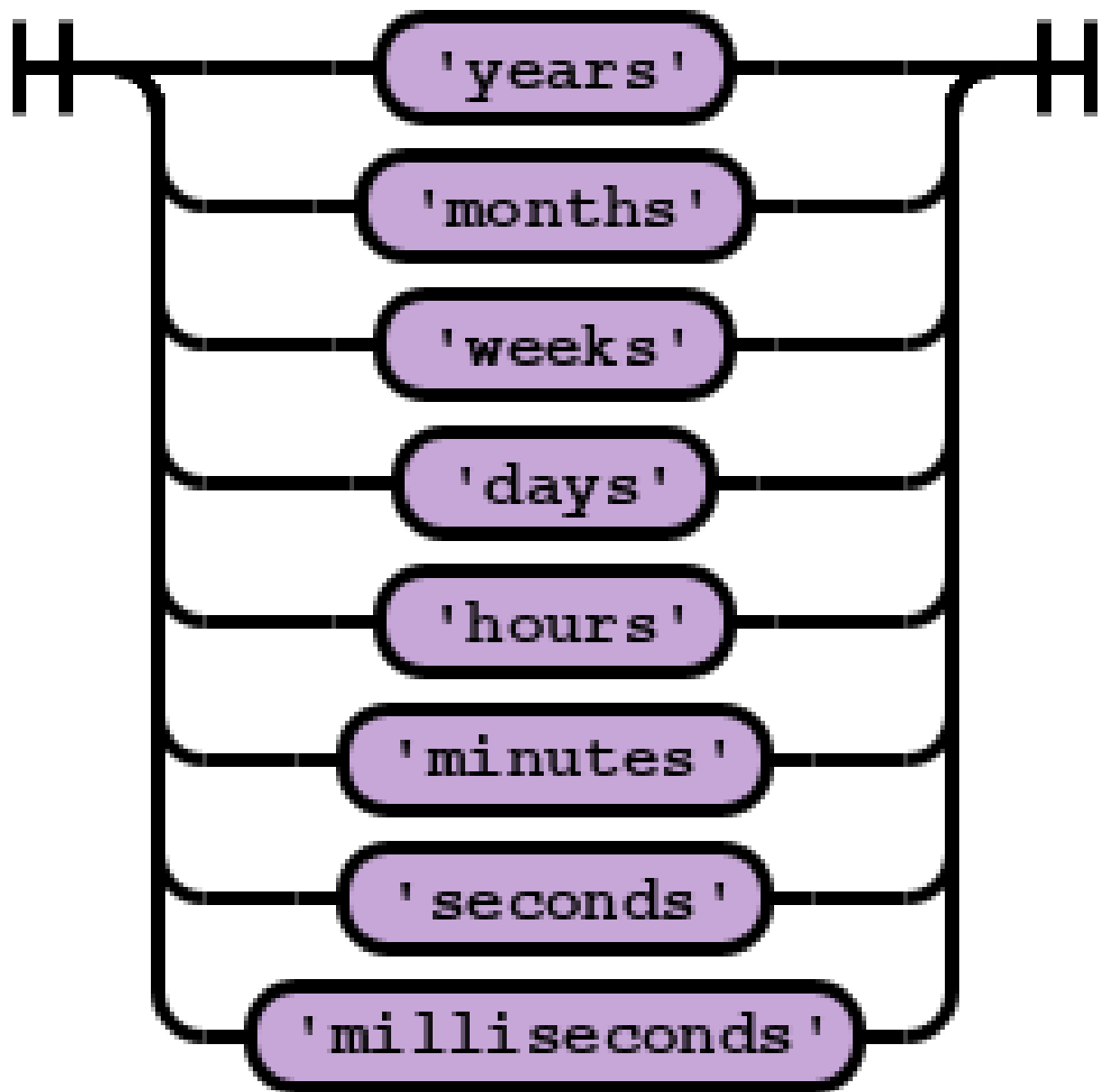
caseExpressionItem :
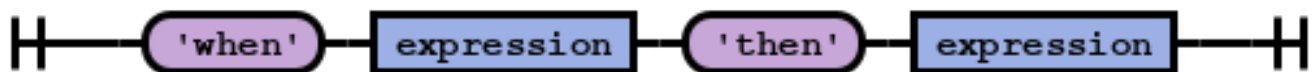
dateTimePrecisionSpecifier :

relativeQualifier :
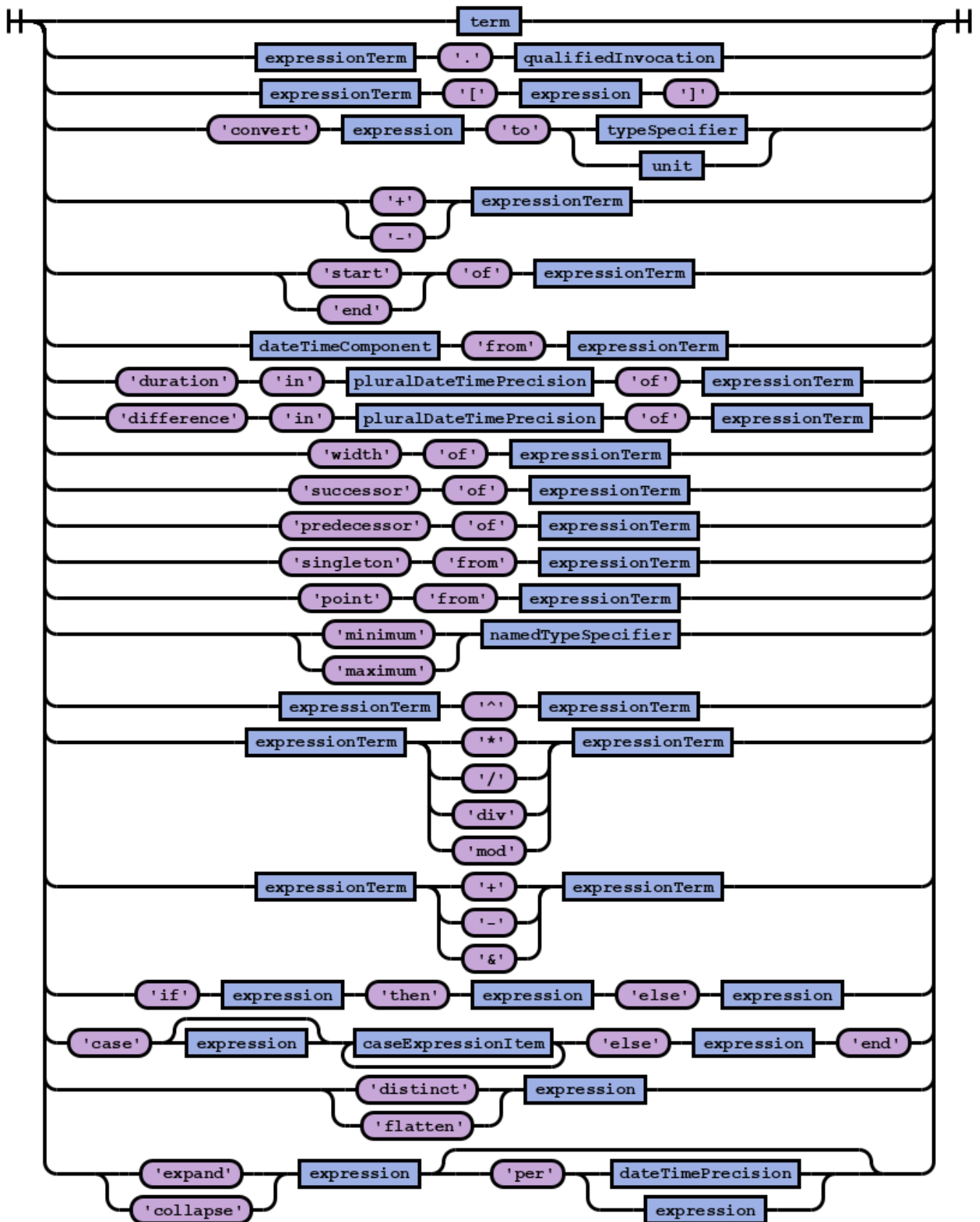
offsetRelativeQualifier :
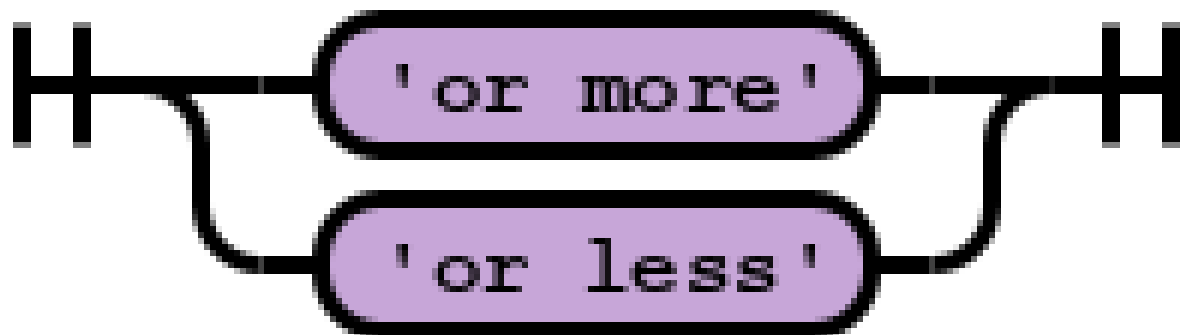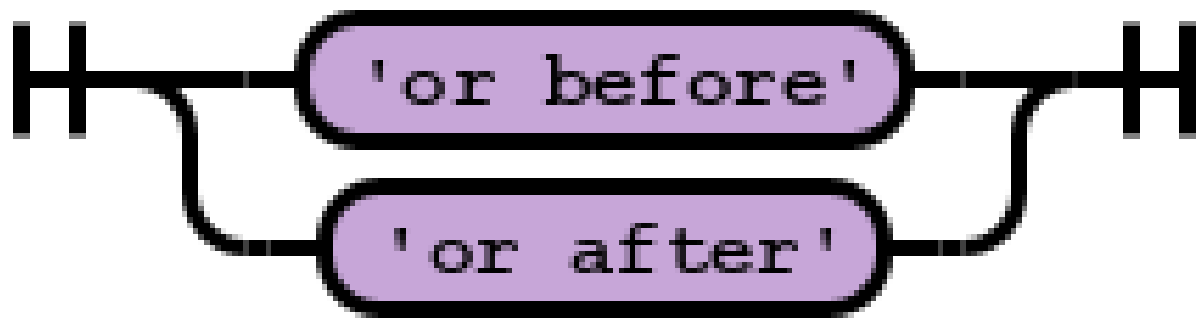
exclusiveRelativeQualifier :
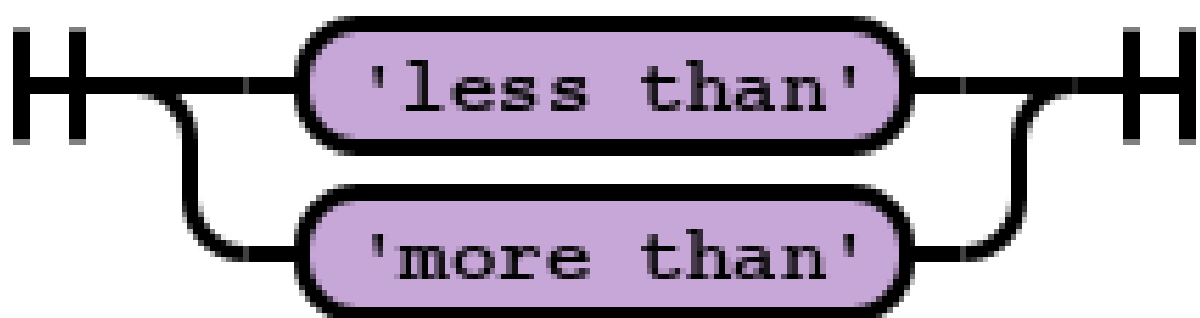
quantityOffset :
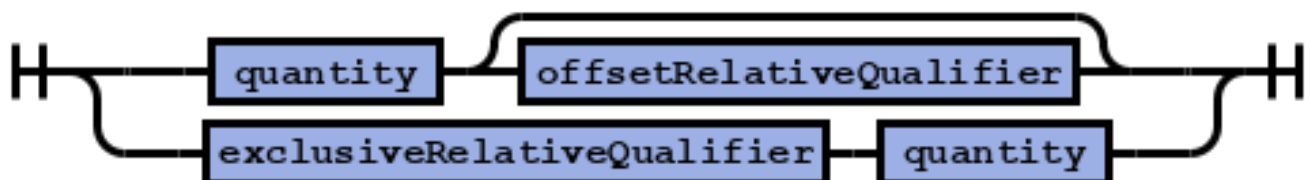
temporalRelationship :
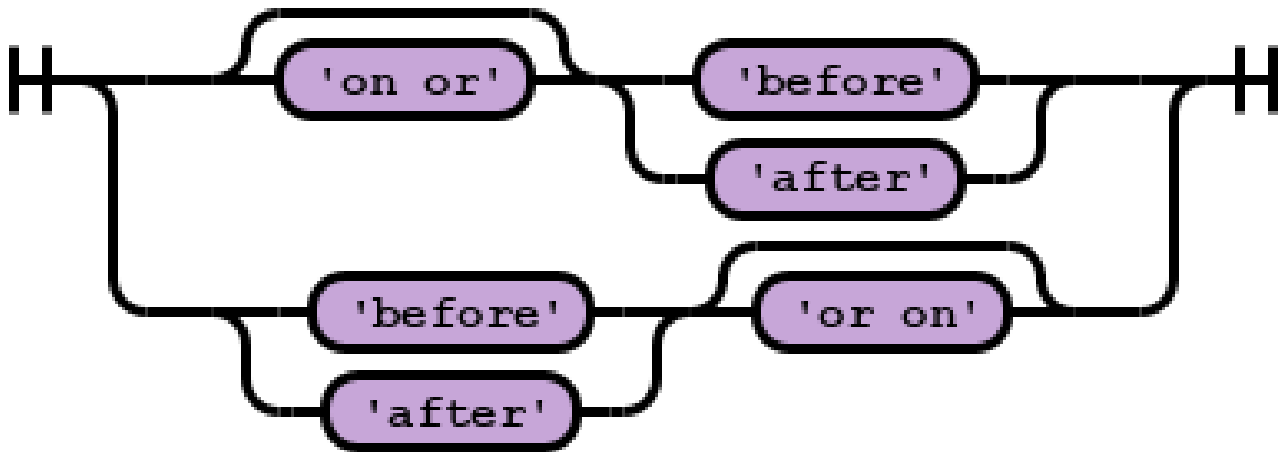
intervalOperatorPhrase :
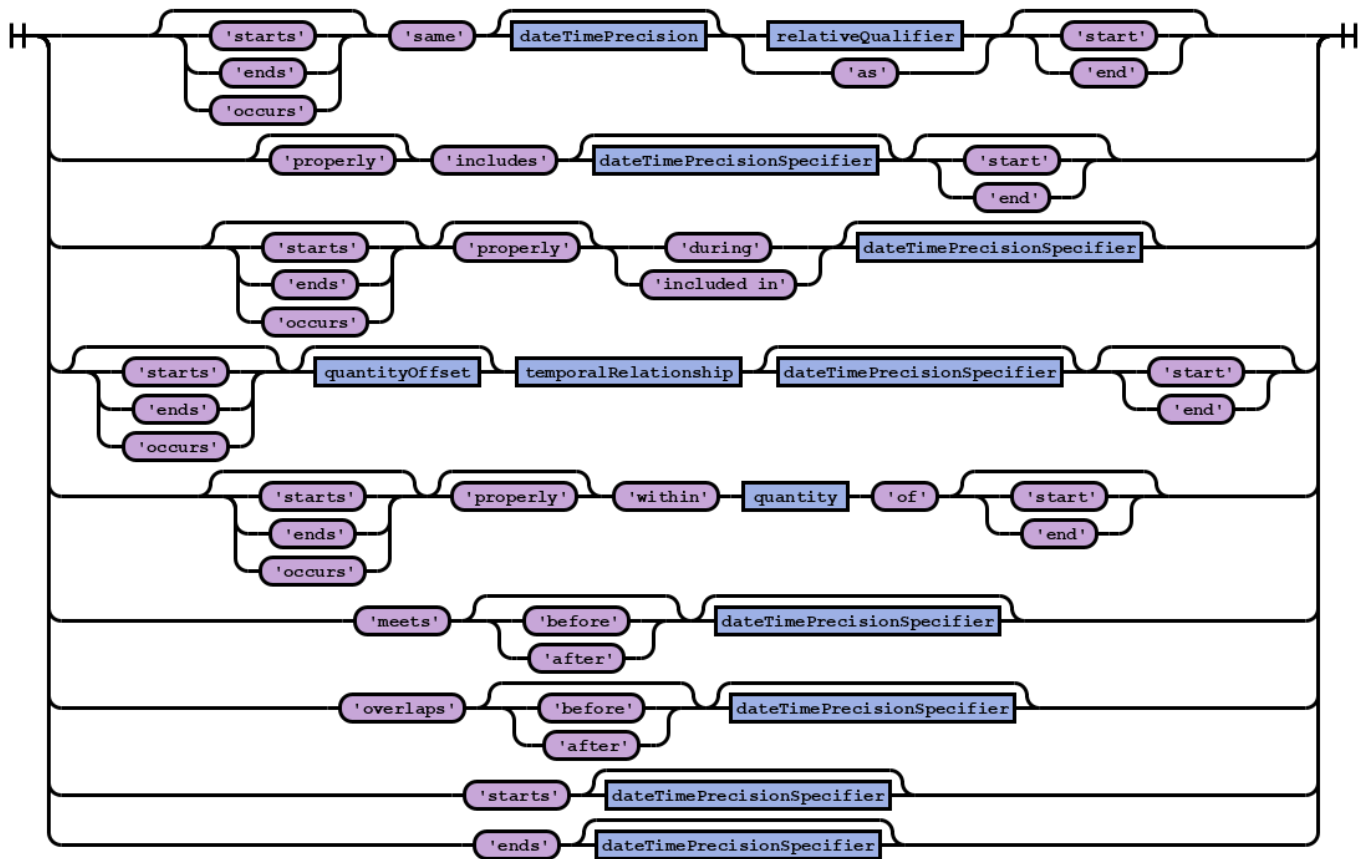
term :
qualifiedInvocation :
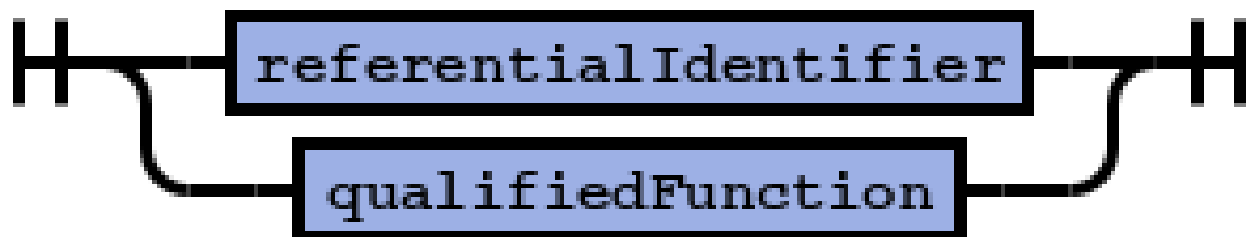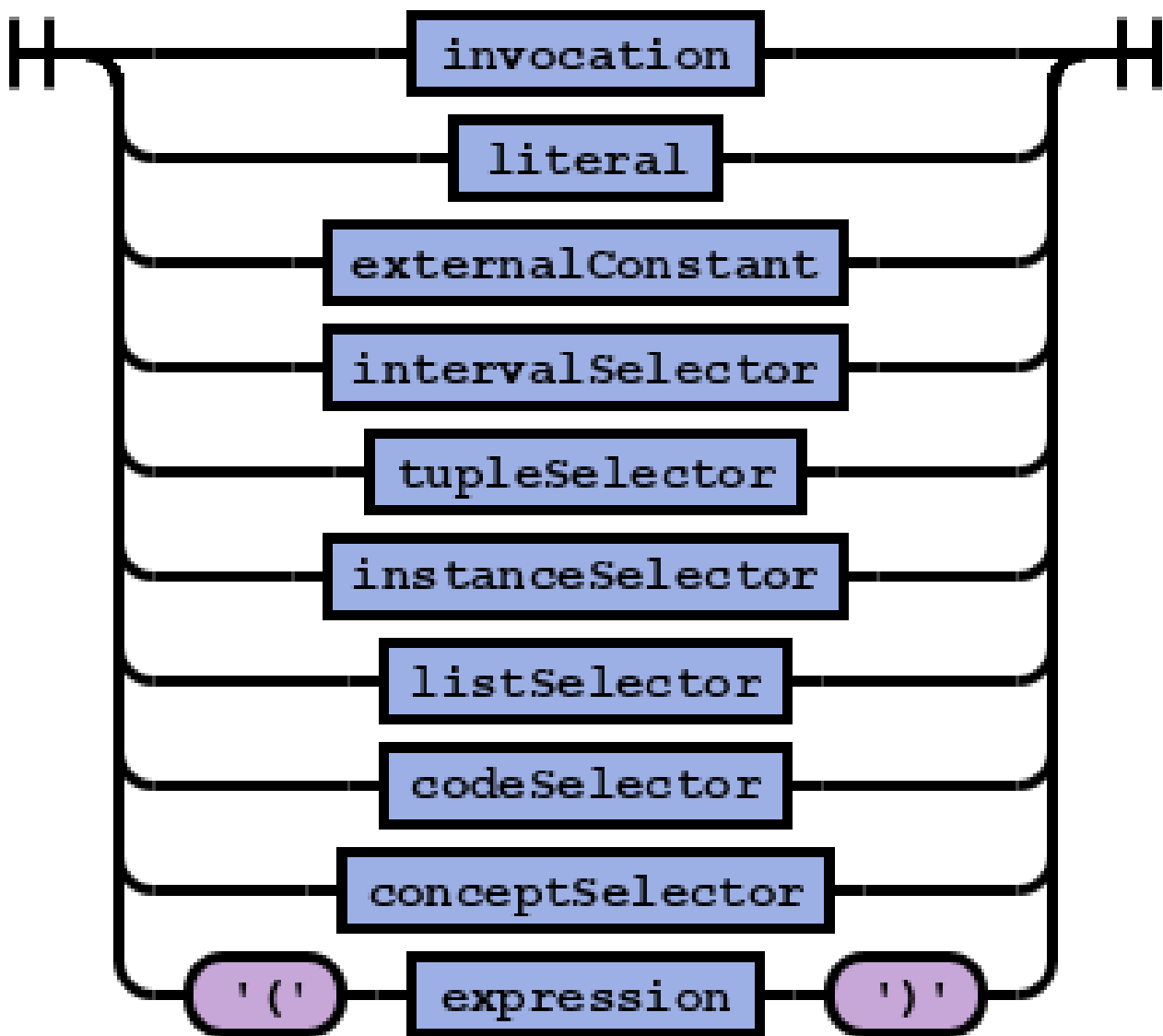
qualifiedFunction :
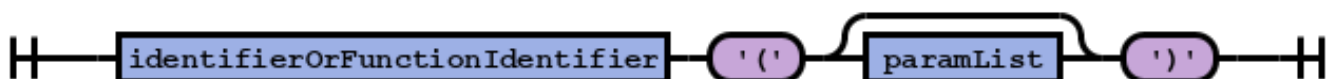
invocation :
function :
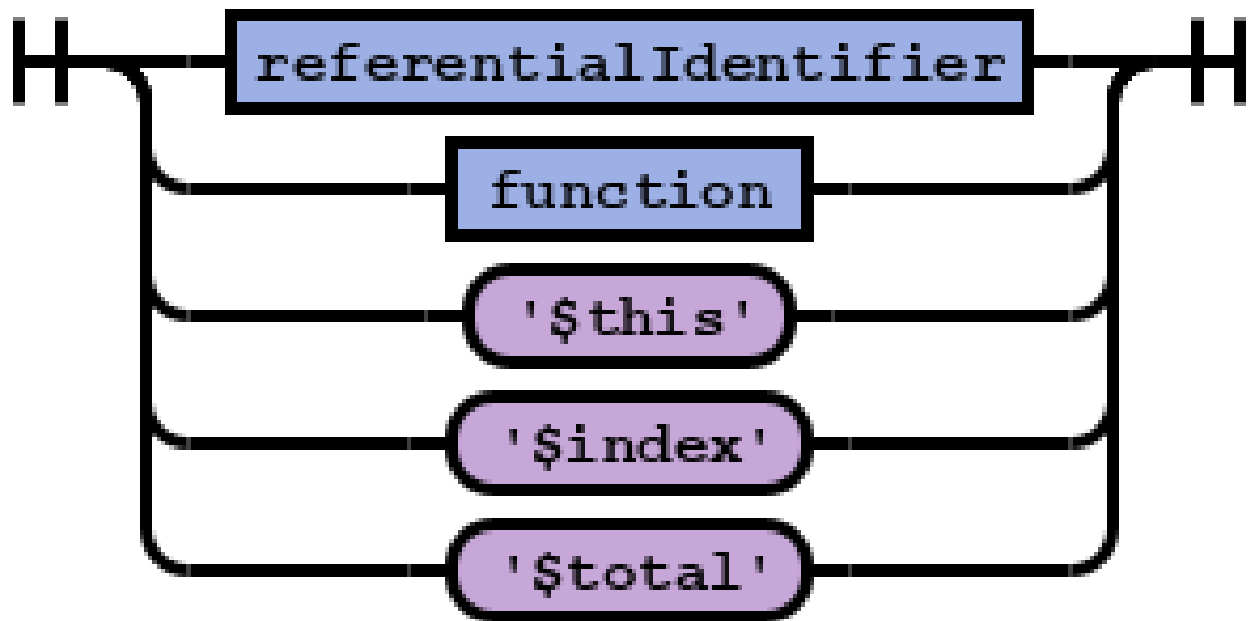
ratio :

literal :
intervalSelector :
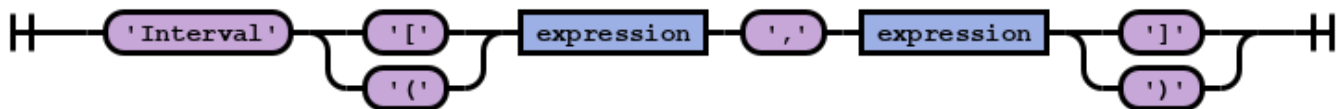
tupleSelector :
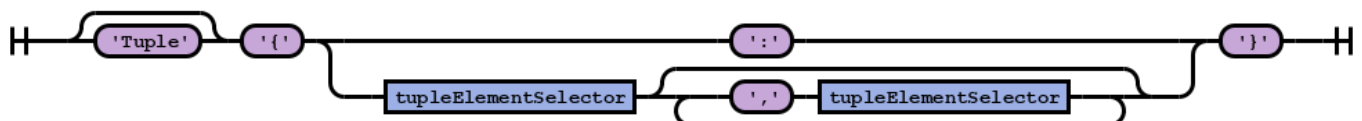
tupleElementSelector :
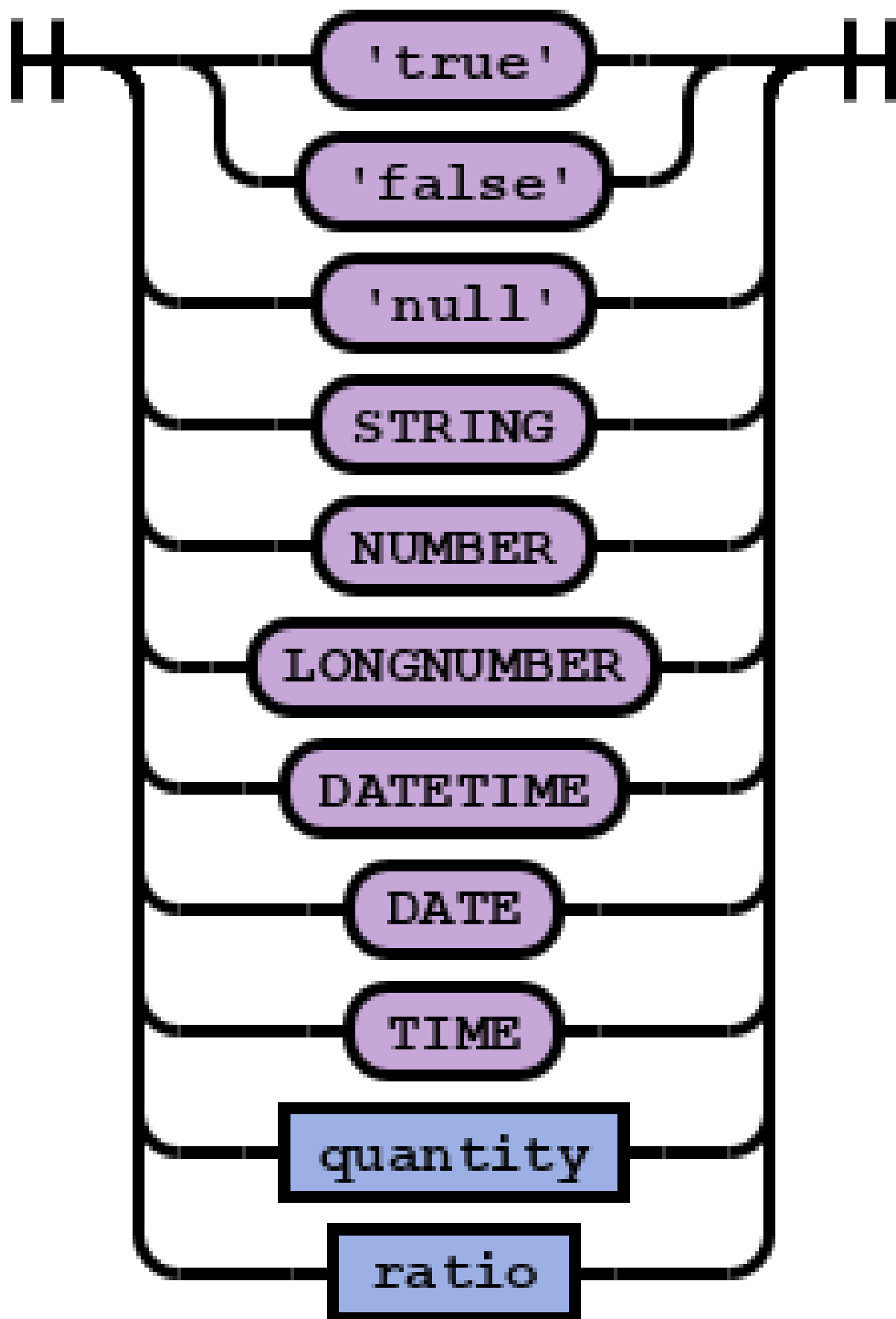
instanceSelector :
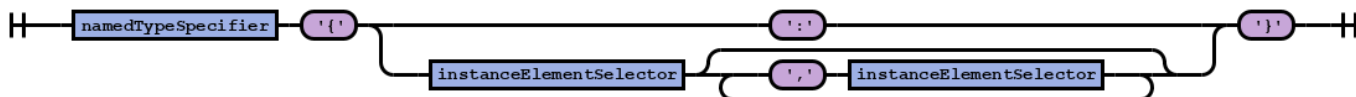
instanceElementSelector :

listSelector :

displayClause :

codeSelector :

conceptSelector :

keyword :
reservedWord :

```
'after'
'aggregate'
'all'
'and'
'as'
'asc'
'ascending'
'before'
'between'
'by'
'called'
'case'
'cast'
'code'
'Code'
'codesystem'
'codesystems'
'collapse'
'concept'
'Concept'
'contains'
'context'
'convert'
'date'
'day'
'days'
'default'
'define'
'desc'
'descending'
'difference'
'display'
'distinct'
'div'
'duration'
'during'
'else'
'end'
'ends'
'except'
'exists'
'expand'
'false'
'flatten'
'fluent'
'from'
'function'
'hour'
'hours'
'if'
'implies'
'in'
'include'
'includes'
'included in'
'intersect'
'Interval'
'is'
'let'
'library'
'List'
'maximum'
'meets'
'millisecond'
'milliseconds'
'minimum'
'minute'
'minutes'
'mod'
'month'
'months'
'not'
'null'
'occurs'
'of'
'on or'
'or'
'or after'
'or before'
'or less'
'or more'
'or on'
'overlaps'
'parameter'
'per'
'point'
'predecessor'
'private'
'properly'
'public'
'return'
'same'
'second'
'seconds'
'singleton'
'start'
'starting'
'starts'
'sort'
'successor'
'such that'
'then'
'time'
'timezoneoffset'
'to'
'true'
'Tuple'
'union'
'using'
'valueset'
'version'
'week'
'weeks'
'where'
'when'
'width'
'with'
'within'
'without'
'xor'
'year'
'years'
```

'aggregate'
'all'
'and'
'as'
'after'
'before'
'between'
'case'
'cast'
'Code'
'collapse'
'Concept'
'convert'
'day'
'days'
'difference'
'distinct'
'duration'
'during'
'else'
'exists'
'expand'
'false'
'flatten'
'from'
'if'
'in'
'included in'
'is'
'hour'
'hours'
'Interval'
'let'
'List'
'maximum'
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'minutes'
'month'
'months'
'not'
'null'
'occurs'
'of'
'on or'
'or'
'or on'
'per'
'point'
'properly'
'return'
'same'
'second'
'seconds'
'singleton'
'sort'
'such that'
'then'
'to'
'true'
'Tuple'
'week'
'weeks'
'when'
'with'
'within'
'without'
'year'
'years'

keywordIdentifier :
obsoleteIdentifier :

'asc'
'ascending'
'by'
'called'
'code'
'codesystem'
'codesystems'
'concept'
'contains'
'context'
'date'
'default'
'define'
'desc'
'descending'
'display'
'div'
'end'
'ends'
'except'
'fluent'
'function'
'implies'
'include'
'includes'
'intersect'
'library'
'meets'
'mod'
'or after'
'or before'
'or less'
'or more'
'overlaps'
'parameter'
'predecessor'
'private'
'public'
'start'
'starting'
'starts'
'successor'
'time'
'timezoneoffset'
'union'
'using'
'valueset'
'version'
'where'
'width'
'xor'

```
'all'
'Code'
'code'
'Concept'
'concept'
'contains'
'date'
'display'
'distinct'
'end'
'exists'
'not'
'start'
'time'
'timezoneoffset'
'version'
'where'
```

functionIdentifier :
typeNameIdentifier :

referentialIdentifier :

referentialOrTypeNameIdentifier :

identifierOrFunctionIdentifier :

A railroad/syntax diagram listing keyword terminals:

- 'after'
- 'aggregate'
- 'all'
- 'and'
- 'as'
- 'asc'
- 'ascending'
- 'before'
- 'between'
- 'by'
- 'called'
- 'case'
- 'cast'
- 'code'
- 'Code'
- 'codesystem'
- 'codesystems'
- 'collapse'
- 'concept'
- 'Concept'
- 'contains'
- 'context'
- 'convert'
- 'date'
- 'day'
- 'days'
- 'default'
- 'define'
- 'desc'
- 'descending'
- 'difference'
- 'display'
- 'distinct'
- 'div'
- 'duration'
- 'during'
- 'else'
- 'end'
- 'ends'
- 'except'
- 'exists'
- 'expand'
- 'false'
- 'flatten'
- 'fluent'
- 'from'
- 'function'
- 'hour'
- 'hours'
- 'if'
- 'implies'
- 'in'
- 'include'
- 'includes'
- 'included in'
- 'intersect'
- 'Interval'
- 'is'
- 'let'
- 'library'
- 'List'
- 'maximum'
- 'meets'
- 'millisecond'
- 'milliseconds'
- 'minimum'
- 'minute'
- 'minutes'
- 'mod'
- 'month'
- 'months'
- 'not'
- 'null'
- 'occurs'
- 'of'
- 'or'
- 'or after'
- 'or before'
- 'or less'
- 'or more'
- 'overlaps'
- 'parameter'
- 'per'
- 'point'
- 'predecessor'
- 'private'
- 'properly'
- 'public'
- 'return'
- 'same'
- 'singleton'
- 'second'
- 'seconds'
- 'start'
- 'starting'
- 'starts'
- 'sort'
- 'successor'
- 'such that'
- 'then'
- 'time'
- 'timezoneoffset'
- 'to'
- 'true'
- 'Tuple'
- 'union'
- 'using'
- 'valueset'
- 'version'
- 'week'
- 'weeks'
- 'where'
- 'when'
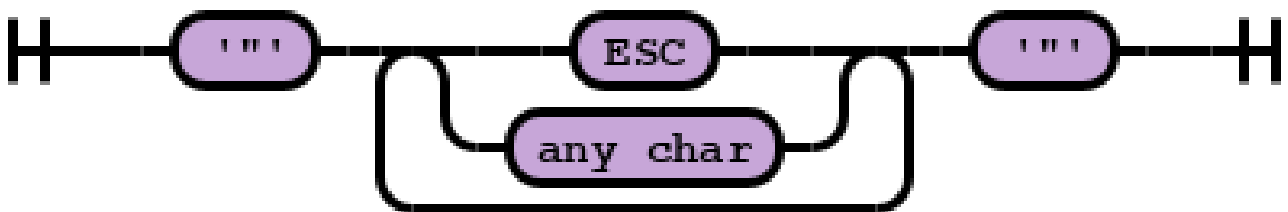- 'width'
- 'with'
- 'within'
- 'without'
- 'xor'
- 'year'
- 'years'

identifier :

QUOTEDIDENTIFIER :

DATETIME :

LONGNUMBER :
ESC :

[0-9] 'L'

'\' [` ' " \ / f n r t] UNICODE