The Language $\mathrm{XLE}_R ULES$

This document was automatically generated by the *BNF-Converter*. It was generated together with the lexer, the parser, and the abstract syntax module, which guarantees that the document matches with the implementation of the language (provided no hand-hacking has taken place).

The lexical structure of $\mathbf{XLE}_R ULES$

Identifiers

Identifiers $\langle Ident \rangle$ are unquoted strings beginning with a letter, followed by any combination of letters, digits, and the characters _ ', reserved words excluded.

Literals

Reserved words and symbols

The set of reserved words is the set of terminals appearing in the grammar. Those reserved words that consist of non-letter characters are called symbols, and they are treated in a different way from those that are similar to identifiers. The lexer follows rules familiar from languages like Haskell, C, and Java, including longest match and spacing conventions.

The reserved words used in $\mathrm{XLE}_R ULES are the following:$

```
e
```

The symbols used in $\mathrm{XLE}_R ULES are the following:$

```
.   -->   *
:   (     ^
)   ;     {
}   |     =
!   $
```

Comments

There are no single-line comments in the grammar.
Multiple-line comments are enclosed with " and ".

The syntactic structure of XLE$_R$$ULES$

Non-terminals are enclosed between $\langle$ and $\rangle$. The symbols ::= (production),
| (union) and ϵ (empty rule) belong to the BNF notation. All other symbols
are terminals.

$\langle GRAMMAR \rangle$ ::= $\langle ListRULE \rangle$

$\langle ListRULE \rangle$ ::= ϵ
       | $\langle RULE \rangle$. $\langle ListRULE \rangle$

$\langle RULE \rangle$ ::= $\langle LHS \rangle$ $--\!>$ $\langle ListRHS \rangle$

$\langle ListRHS \rangle$ ::= ϵ
       | $\langle RHS \rangle$ $\langle ListRHS \rangle$

$\langle LHS \rangle$ ::= $\langle Ident \rangle$

$\langle RHSSYMBOL \rangle$ ::= $\langle RHSSYMB \rangle$ $*$
       | $\langle RHSSYMB \rangle$

$\langle RHSSYMB \rangle$ ::= $\langle Ident \rangle$

$\langle EPSILONSYMB \rangle$ ::= e

$\langle RHS \rangle$ ::= $\langle EPSILONSYMB \rangle$: (^ $\langle SYMBOL \rangle$)
   | $\langle EPSILONSYMB \rangle$: (^ $\langle SYMBOL \rangle$) ;
   | $\langle RHSSYMBOL \rangle$
   | $\langle RHSSYMBOL \rangle$: $\langle ListSCHEMA \rangle$
   | $\langle RHSSYMBOL \rangle$: $\langle ListSCHEMA \rangle$;
   | ($\langle RHSSYMBOL \rangle$)
   | ($\langle RHSSYMBOL \rangle$: $\langle ListSCHEMA \rangle$)
   | { $\langle ListDRHS \rangle$ }

$\langle ListSCHEMA \rangle$ ::= ϵ
    | $\langle SCHEMA \rangle$ $\langle ListSCHEMA \rangle$

$\langle DRHS \rangle$ ::= $\langle RHSSYMBOL \rangle$
   | $\langle RHSSYMBOL \rangle$: $\langle ListSCHEMA \rangle$
   | ($\langle RHSSYMBOL \rangle$)
   | ($\langle RHSSYMBOL \rangle$: $\langle ListSCHEMA \rangle$)

$\langle ListDRHS \rangle$ ::= ϵ
   | $\langle DRHS \rangle$
   | $\langle DRHS \rangle$ | $\langle ListDRHS \rangle$

$\langle SCHEMA \rangle$ ::= ^ = !
   | (^ $\langle SYMBOL \rangle$) = !
   | (! $\langle SYMBOL \rangle$) = $\langle VALUE \rangle$
   | (^ $\langle SYMBOL \rangle$ * { $\langle ListDSYMBOL \rangle$ }) = !
   | ! \$ (^ $\langle SYMBOL \rangle$)

$\langle DSYMBOL \rangle$ ::= $\langle Ident \rangle$

$\langle ListDSYMBOL \rangle$ ::= ϵ
    | $\langle DSYMBOL \rangle$
    | $\langle DSYMBOL \rangle$ | $\langle ListDSYMBOL \rangle$

$\langle SYMBOL \rangle$ ::= $\langle Ident \rangle$

$\langle VALUE \rangle$ ::= $\langle Ident \rangle$