

Lexical Analysis

★ Token Classes:

1) Keywords: Case-insensitive reserved words

- load
- filter
- map
- aggregate
- where
- for
- in

2) Identifiers: Table names, variable names

e.g. employees, salary

3) Literals:

- String literals ^{e.g.} "employees.csv"
- Number literals: e.g. 10, 1500.5

4) Operators: +, -, *, /, =, !=, <, >, <=, >=, ==, /, AND, OR, ., comma(,), &, ||

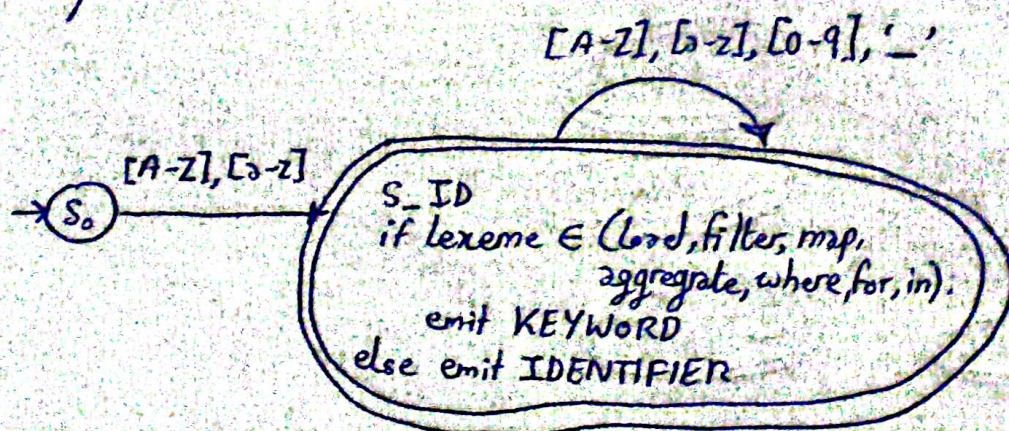
5) Grouping Symbols:

- LBRACE {
- RBRACE }
- LPAREN (
- RPAREN)

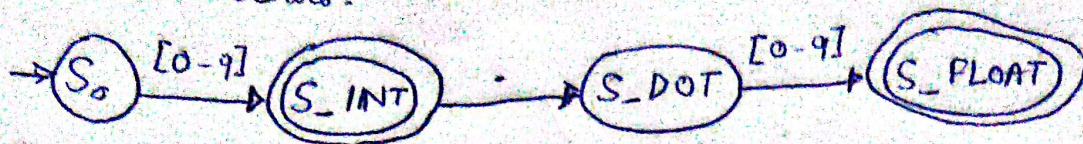
★ DFA's

(For each token class and combined)

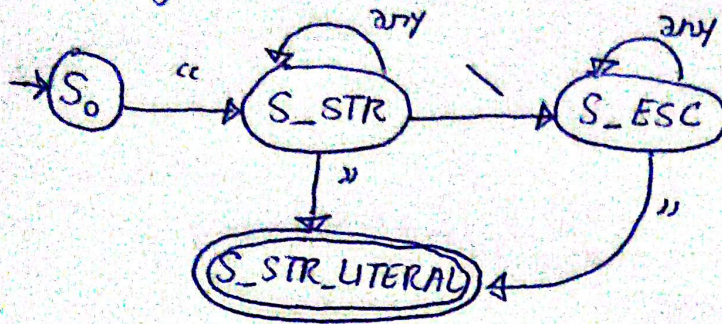
1) Keywords and Identifiers:



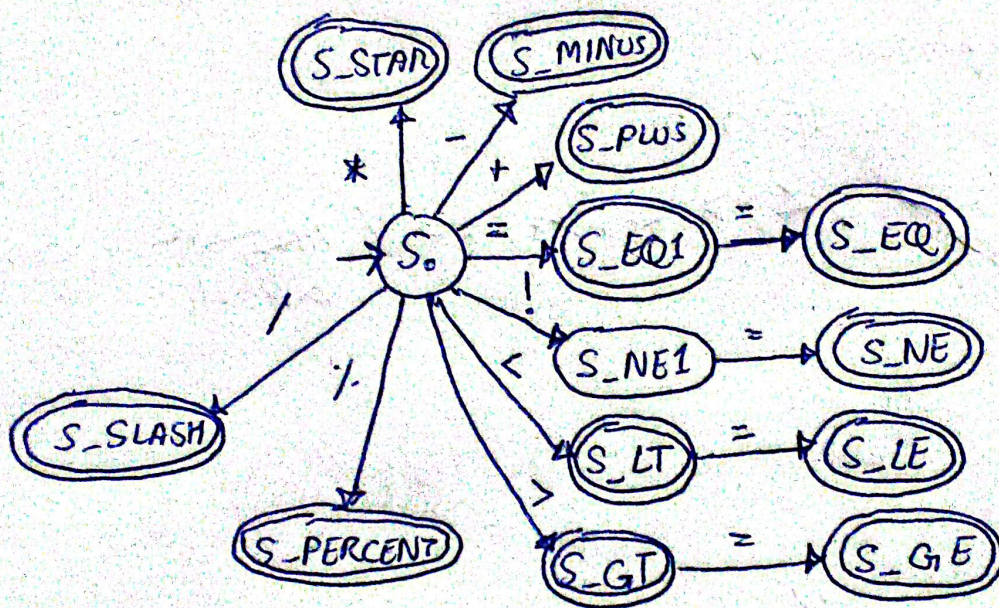
2) Number literals:



3) String literals:



4) Operators:



5: Grouping Symbols:

