Πa1, ..., an(R) -- Projection

σF(R) -- Selection

ρS(a1, ..., an)(R) -- Renaming

R ∪ S -- Union

R × S -- Cartesian Product

R ⨝F S -- Equijoin

R ⟕F S -- Left outer join

R ⟖F S – Right outer join

AL(R) -- Aggregation

GA AL(R) -- Grouping

R ← -- Decomposition

Basic conditions:

* Comparison:
  + =, <>, <, <=, >, >=
* Range:
  + BETWEEN, NOT BETWEEN
* Set membership:
  + IN, NOT IN
* Pattern match:
  + LIKE, NOT LIKE
* Null:
  + IS NULL, IS NOT NULL

Logical expression:

* NOT, AND, OR
* (, )