Supplement

Using Aggregation Functions in Relational Algebra
\( \alpha \text{-Operator} \)

\( \alpha_{\text{arg1}}(R) \) – apply aggregation function specified in \textit{arg1} to the relation R.

\textit{e.g.}, \( \alpha_{\text{max}}(\text{budget}) \) (Dept)

\( \alpha_{\text{arg1, arg2}}(R) \) --- group relation R based on \textit{arg1} and apply aggregation function specified in \textit{arg2} to the groups.

\textit{e.g.}, \( \alpha_{\text{age, sum(salary)}} \) (Employee)

Naming: new names are generated for the columns created with aggr. Functions.

\textit{e.g.}, sum(salary) \( \rightarrow \) sum-salary