

Stratified Datalog programs

- Same predicate rules in one stratum
- Negated predicates defined in lower stratum
- Positive predicates define in current or lower stratum

Stratum P_1

$$\begin{aligned} r(X) &\leftarrow q(X) \\ q(X) &\leftarrow !p(X), r(X) \end{aligned}$$

Stratum P_0

$$\begin{aligned} p(b) &\leftarrow p(a) \\ p(a) &\leftarrow \end{aligned}$$

Semantics (informally): For each stratum, compute the lfp that contains the lfp of the previous stratum