

Unfolding example

Databases:

- *Source*: $Emp(N, A), Num(N, Id)$
- *Target*: $Name(Id, N), Addr(Id, A)$

Source-to-target dependency (LAV):

$$\forall n, a, id. Emp(n, a) \wedge Num(n, id) \Rightarrow Name(id, n)$$

Query:

$Query(n) :- Emp2(n).$
 $Emp2(n) :- Name(2, n).$

Preprocessing and renaming of the query atoms:

$Query(n) :- Emp2(n).$
 $Emp2(n1) :- Name(x, n1), x=2.$

Unfolding the first query rule with the second:

$Query(n) :- Name(x, n), x=2.$

Renaming of the source-to-target dependency:

$Name(id2, n2) :- Emp(n2, a2), Num(n2, id2).$

Unfolding with the source-to-target dependency:

$Query(n) :- Emp(n, a2), Num(n, x), x=2.$