G

$r1$: livesIn(X, Z) :- isMarriedTo(X, Y) ^ livesIn(Y, Z)
$r2$: actedIn(X, Z) :- isMarriedTo(X,Y) ^ directed(Y, Z)
...

1
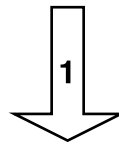
$r1$: livesIn(X, Z) :- isMarriedTo(X, Y) ^ livesIn(Y, Z) ^
    not **researcher**(X)
$r2$: actedIn(X, Z) :- isMarriedTo(X,Y) ^ directed(Y, Z) ^
    not **silentFilmActor**(X)
...

3

2

Component 5

Ranking
Exceptions

4

G'