

```
male(john).  
0.80::male(mike).  
0.65::female(anna).  
0.60::parent(mike, john).  
0.95::father(X, Y) :- male(X), parent(X, Y).
```

||
automatic
recompilation
⇓

```
prob(E, male(john)) :- expl_build(E, 1.0).  
prob(E, male(mike)) :- expl_build(E, 0.8).  
prob(E, female(anna)) :- expl_build(E, 0.65).  
prob(E, parent(mike, john)) :- expl_build(E, 0.6)  
prob(E, father(X, Y)) :-  
    expl_build(E0, 0.95),  
    prob(E1, male(X)), prob(E2, parent(X, Y)),  
    expl_and(E, [E0, E1, E2]).
```