Family Relationship Rules in Prolog

Base Facts % Gender facts male(john). male(paul). male(mike). male(david). female(linda). female(susan). female(mary). female(anna). % Parent facts parent(john, paul). % John is Paul's parent parent(linda, paul). parent(john, susan). parent(linda, susan). parent(paul, mike). parent(mary, mike). parent(paul, anna). parent(mary, anna). parent(susan, david). parent(mike, david).

Relationship Rules

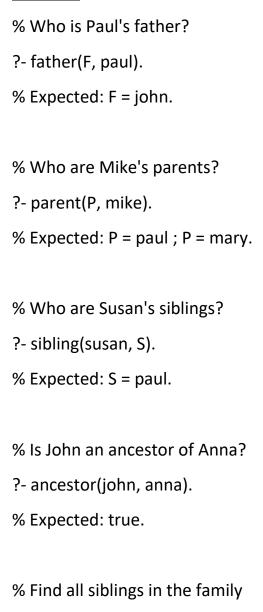
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% father(Father, Child)
father(F, C) :- parent(F, C), male(F).

% mother(Mother, Child)
mother(M, C) :- parent(M, C), female(M).

% sibling(Person1, Person2)
sibling(X, Y) :-
  parent(P, X),
  parent(P, Y),
  X \= Y.

% ancestor(Ancestor, Descendant)
ancestor(A, D) :- parent(A, D).
ancestor(A, D) :- parent(A, X), ancestor(X, D).
```

QUERIES



?- sibling(X, Y).