

%%% BIBLICAL FAMILY

% father(X, Y): X is Y's father.

father(terach, abraham).

father(terach, nachor).

father(terach, haran).

father(abraham, isaac).

father(haran, lot).

father(haran, milcah).

father(haran, yiscah).

% mother(X, Y): X is Y's mother.

mother(sarah, isaac).

% male(X): X is male.

male(terach).

male(abraham).

male(nachor).

male(haran).

male(isaac).

male(lot).

% female(X): X is female.

female(sarah).

female(milcah).

female(yiscah).

% person(X): X is a person.

person(X):- male(X).

person(X):- female(X).

% parent(X, Y): X is Y's parent.

parent(X, Y):- father(X, Y).

parent(X, Y):- mother(X, Y).

% likes(X, Y): X likes Y.

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likes(terach, apples).

likes(abraham, apples).

likes(nachor, apples).

likes(haran, apples).

likes(isaac, apples).

likes(lot, apples).

likes(sarah, apples).

likes(milcah, apples).

likes(yiscah, apples).

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likes(X, apples):- person(X).

% grandparent(X, Y): X is Y's grandparent.

grandparent(X, Y):- father(X, Z), father(Z, Y).

grandparent(X, Y):- father(X, Z), mother(Z, Y).

grandparent(X, Y):- mother(X, Z), father(Z, Y).

grandparent(X, Y):- mother(X, Z), mother(Z, Y).

% ancestor(X, Y): X is Y's ancestor.

% Base component

ancestor(X, Y):- parent(X, Y).

% Recursive component

ancestor(X, Y):- parent(X, Z), ancestor(Z, Y).

% sister(X, Y): X is Y's sister.

sister(X, Y):- parent(Z, X), parent(Z, Y), female(X), not(X = Y).

% brother(X, Y): X is Y's brother.

brother(X, Y):- parent(Z, X), parent(Z, Y), male(X), not(X = Y).

% sibling(X, Y): X is Y's sibling.

sibling(X, Y):- sister(X, Y).

sibling(X, Y):- brother(X, Y).