ex.1:

father(eugenio,matteo).

father(eugenio,luca).

father(paolo,marta).

father(mimmo, eugenio).

father(mimmo, roberta).

father(giulio,laura).

mother(laura,matteo).

mother(laura,luca).

mother(roberta,marta).

mother(aurelia,roberta).

mother(aurelia,eugenio).

fem(aurelia).

fem(laura).

fem(roberta).

fem(marta).

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

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

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

male(X) :- \+ fem(X).

son(X,Y) :- parent(Y,X), male(X).

daughter(X,Y) :- parent(Y,X), fem(X).

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

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

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

sibling(X,Y) :- parents(Z,W,X), parents(Z,W,Y), X \== Y.

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

cousin(X,W) :- parent(Y,X), sibling(Y,Z), parent(Z,W), X\==W.

ex 2.b

player(a).

player(b).

player(c).

player(d).

player(e).

player(f).

player(g).

player(h).

player(i).

player(j).

player(k).

player(l).

quintet(X,Y,W,Z,T) :- player(X), player(Y), player(W), player(Z), player(T), X\==Y, X\==W, X\==Z, X\==T, Y\==W, Y\==Z, Y\==T, W\==Z, W\==T, Z\==T.