% ------------------------------------

% Birds Database

% ------------------------------------

% bird(Name, CanFly).

bird(sparrow, yes).

bird(pigeon, yes).

bird(parrot, yes).

bird(crow, yes).

bird(eagle, yes).

bird(penguin, no).

bird(ostrich, no).

bird(kiwi, no).

bird(duck, yes).

bird(chicken, no).

% ------------------------------------

% Rules

% ------------------------------------

can\_fly(Bird) :-

bird(Bird, yes).

cannot\_fly(Bird) :-

bird(Bird, no).

% ------------------------------------

% Main Program

% ------------------------------------

:- initialization(main).

main :-

nl, write('--- Bird Flight Checker ---'), nl, nl,

write('Example Queries:'), nl,

% Query 1: Can sparrow fly?

(can\_fly(sparrow) ->

write('Sparrow can fly.'), nl ;

write('Sparrow cannot fly.'), nl),

% Query 2: Can penguin fly?

(can\_fly(penguin) ->

write('Penguin can fly.'), nl ;

write('Penguin cannot fly.'), nl),

% Query 3: List all birds that can fly

nl, write('Birds that can fly:'), nl,

forall(can\_fly(B), (write(' - '), write(B), nl)),

% Query 4: List all birds that cannot fly

nl, write('Birds that cannot fly:'), nl,

forall(cannot\_fly(B), (write(' - '), write(B), nl)),

halt.