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##

## EXERCISE 10

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## List all persons with a birthdate and a death date, and in the second column, show the number of years that the person lived.

#

SELECT ?person ?approxAge

WHERE {

 ?person schema:birthDate ?birth ;

 schema:deathDate ?death;

 .

 BIND ( year(?death) - year(?birth) AS ?approxAge )

}

## Query that outputs a string consisting of a person’s given name, family name and honorific suffix, separated by spaces

#

SELECT ?output

WHERE {

 ?person schema:givenName ?givenName ;

 schema:familyName ?familyName ;

 schema:honorificSuffix ?suffix ;

 .

 BIND ( concat ( ?givenName, " ", ?familyName, " ", ?suffix ) AS ?output )

}

## Select all persons who are born in the month November. Create one output column with strings of the form “John Kennedy (born 25 November 1960)”

#

SELECT ?output

WHERE {

 ?person schema:givenName ?givenName ;

 schema:familyName ?familyName ;

 schema:birthDate ?date ;

 .

 FILTER ( month(?date) = 11 )

 BIND ( concat (

 ?givenName, " ", ?familyName, " ",

 " (born ", str(day(?date)),

 " November ", str(year(?date)), ")"

 ) AS ?output )

}

## Create a list of all persons that have a birthdate specified, and display in the second column the date that the person turned 18 years old.

#

SELECT ?person ?date18

WHERE {

 ?person schema:birthDate ?birth .

 BIND ( concat(

 str(year(?birth) + 18),

 "-",

 str(month(?birth)),

 "-",

 str(day(?birth)))

 AS ?date18AsString )

 BIND ( strDT(?date18AsString, xsd:date) AS ?date18 )

}