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## EXERCISE 11

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## Select all resources that are an instance of Person that do not have a death date specified for them

#

SELECT \*

WHERE {

?person a schema:Person .

FILTER NOT EXISTS {?person schema:deathDate ?date }

}

## List all persons, and if specified, their birthdate and death date

#

SELECT ?person ?birthDate ?deathDate

WHERE {

?person a schema:Person .

OPTIONAL { ?person schema:birthDate ?birthDate }

OPTIONAL { ?person schema:deathDate ?deathDate }

}

## Selects persons who are Kennedys, the university or college they graduated from, their spouse, and, optionally, the university or college their spouse graduated from.

#

SELECT ?person ?univ ?spouse ?spouseUniv

WHERE {

?person schema:alumniOf ?univ .

?person schema:spouse ?spouse .

?person schema:familyName ?familyName .

FILTER ( ?familyName = "Kennedy" )

OPTIONAL {

?spouse schema:alumniOf ?spouseUniv

}

}

## Selects persons who are Kennedys, and their spouse, and either the Kennedy graduated from Yale or the spouse graduated from Manhattanville College

#

SELECT ?person ?univ ?spouse ?spouseUniv

WHERE {

?person schema:spouse ?spouse .

?person schema:familyName ?familyName .

FILTER ( ?familyName = "Kennedy" )

{

?person schema:alumniOf ?univ .

FILTER (?univ = kennedys:Yale )

} UNION {

?spouse schema:alumniOf ?spouseUniv .

FILTER ( ?spouseUniv = kennedys:ManhattanvilleCollege )

}

}

## Selects all descendants of Rose Fitzgerald that have either navy, attorney or actor as job title.

#

SELECT ?person ?jobTitle

WHERE {

?person schema:parent+ kennedys:RoseFitzgerald .

{

?person schema:jobTitle ?jobTitle .

FILTER ( ?jobTitle = "navy" )

} UNION {

?person schema:jobTitle ?jobTitle .

FILTER ( ?jobTitle = "attorney" )

} UNION {

?person schema:jobTitle ?jobTitle .

FILTER ( ?jobTitle = "actor" )

}

}

## Bonus exercise. Create a query that selects people that have the job title “attorney”, or have an honorific suffix.

#

SELECT ?person ?givenName ?familyName ?suffix ?jobTitle

WHERE {

?person schema:givenName ?givenName .

?person schema:familyName ?familyName .

{

?person schema:jobTitle ?jobTitle .

FILTER ( ?jobTitle = "attorney" )

FILTER NOT EXISTS {

?person schema:honorificSuffix ?suffix .

}

} UNION {

?person schema:honorificSuffix ?suffix .

FILTER NOT EXISTS {

?person schema:jobTitle "attorney" .

}

} UNION {

?person schema:honorificSuffix ?suffix .

?person schema:jobTitle ?jobTitle .

FILTER ( ?jobTitle = "attorney" )

}

} ORDER BY ?familyName ?givenName