**Quiz 7**

**DSCI 558 BUILDING KNOWLEDGE GRAPH**

Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

## Question 1 (10pts)

Filling the blanks (1pt each).

Write a SPARQL query to find 20 longest movies with more than 10 cast members and do not have a music producer. Output names, movie websites (if available), cast member counts of the movies.

Classes:

* Movie: http://test.com/ex/movie

Properties:

* Duration: http://test.com/ex/duration
* Cast member: http://test.com/ex/cast
* Music producer: http://test.com/ex/music\_producer
* Website: http://test.com/ex/website

Underlined are blanks

PREFIX ex: <http://test.com/ex/>

SELECT ?title ?count ?website

WHERE {

?movie rdfs:type ex:movie;

ex:duration ?duration ;

ex:title ?title .

{

# Subquery to select movies with more than 10 cast members

SELECT ?movie (COUNT(?member) as ?count)

WHERE {

?movie rdfs:type ex:movie ;

ex:cast ?member .

}

GROUP BY (?movie)

HAVING (COUNT(?member) > 10)

}

FILTER NOT EXISTS {?movie ex:music\_producer ?producer}

OPTIONAL {?movie ex:website ?website}

}

ORDER BY DESC(?duration)

LIMIT 20