CSCI 548 – HomeWork 6

1. a.   Query for part 2

    PREFIX rdf: <http://www.w3.org/1999/02/22-rdf-syntax-ns#>
    PREFIX dbpprop: <http://dbpedia.org/property/>
    PREFIX dbpedia-owl: <http://dbpedia.org/ontology/>
    PREFIX geo: <http://www.w3.org/2003/01/geo/wgs84_pos#>

    SELECT distinct ?univName ?city ?latitude ?longitude WHERE {
            ?univName dbpprop:type <http://dbpedia.org/resource/Private_university> .
            ?univName dbpedia-owl:state <http://dbpedia.org/resource/California> .
            OPTIONAL { ?univName dbpprop:name ?name . }
            OPTIONAL { ?univName dbpprop:city ?city. }
            OPTIONAL { ?univName geo:lat ?latitude . }
            OPTIONAL { ?univName geo:long ?longitude . }
    }

    b.   Description of code:
    My code first creates a query that gets the details of all private universities in California
    and adds the details to a local triple store and also prints the data to a .txt file. After the
    triple store is created, the code calculates the distance between UCLA and each university
    in the triple store sing their latitude and longitude values, if this distance is less than 200
    miles i.e it is within 200 miles of UCLA then the university name is printed in the console.

    c.   List of universities within 200 miles of UCLA:

        i.   Point Loma Nazarene University
       ii.   Southwestern Law School
      iii.   Loma Linda University School of Public Health
       iv.   NewSchool of Architecture and Design
        v.   Abraham Lincoln University
       vi.   Western Sierra Law School
      vii.   Antioch University Santa Barbara
     viii.   California InterContinental University
       ix.   Graziadio School of Business and Management
        x.   University of La Verne
       xi.   College of Osteopathic Medicine of the Pacific
      xii.   Pacific Coast University
     xiii.   University of Santa Monica
      xiv.   Vanguard University of Southern California
       xv.   Whittier College
      xvi.   Whittier Law School
     xvii.   Loma Linda University School of Allied Health Professions
    xviii.   Anaheim University
      xix.   Azusa Pacific University

xx. Glendale University College of Law
xxi. Trinity Law School
xxii. USC Marshall School of Business
xxiii. Art Center College of Design
xxiv. Loyola Marymount University
xxv. California Western School of Law
xxvi. University of Southern California
xxvii. Western University College of Veterinary Medicine
xxviii. Latin American Bible Institute, California
xxix. Western University College of Podiatric Medicine
xxx. California Southern Law School
xxxi. McMillan Academy of Law
xxxii. Brandman University
xxxiii. University of La Verne College of Law
xxxiv. Pepperdine University
xxxv. Santa Barbara & Ventura Colleges of Law
xxxvi. USC School of Dramatic Arts
xxxvii. American Sports University
xxxviii. Chapman University
xxxix. Loyola Law School
xl. Pacific States University
xli. USC Viterbi School of Engineering
xlii. Chapman University School of Law
xliii. Pepperdine University School of Law
xliv. KGI School of Pharmacy
xlv. San Diego Christian College
xlvi. University of San Diego
xlvii. Platt College (San Diego)
xlviii. University of San Diego School of Law
xlix. Southern California Institute of Law
l. The Art Institute of California â€" Hollywood

Total – 50 universities within 200 miles of UCLA