Questions and Queries

```
Question:
      "Does ages affect the likelihood that you will be involved with a crime?"
Query:
      SELECT ?Age (count( distinct ?Report) as ?Count) WHERE {
            ?Report ns1:hasPerson ?Person .
            ?Person ns1:hasAge ?Age .
            FILTER (?Age > 0)
      GROUP BY ?Age
      ORDER BY ?Age
Question:
      "What is the time with the least amount of crime occured?"
Query:
      SELECT (COUNT(?report) AS ?number of crimes) ?hours
      WHERE {
            {
                  SELECT (HOURS (?o) AS ?hours) ?report
                  WHERE {
                        ?report rdf:type ns1:CrimeReport .
                        ?report ns1:hasDateTime ?o
                  }
            }
      }
      GROUP BY ?hours
      ORDER BY ?number of crimes
      LIMIT 5
Question:
      "Based on your gender, how likely are you to be involved with a crime in a given
      neighborhood?"
Query:
      SELECT ?area ?gender (COUNT(?person) AS ?count)
      WHERE {
```

```
?report rdf:type ns1:CrimeReport .
            ?report ns1:hasPerson ?person .
            ?person ns1:hasSex ?gender .
            ?report ns1:hasLocation ?location .
            ?location ns1:hasAreaName ?area
            FILTER (?gender!='X')
            FILTER (?gender!=")
      }
      GROUP BY ?area ?gender
      ORDER BY ?area DESC(?count)
Question:
      What is the distribution of crimes committed against each race per month?
Query:
      SELECT ?victim descent ?month ?year (COUNT(DISTINCT ?report) AS
      ?number of crimes)
      WHERE
            SELECT ?report ?victim descent (MONTH (?o) AS ?month) (YEAR (?o)
      AS ?year)
            WHERE {
                  ?report rdf:type ns1:CrimeReport .
                  ?report ns1:hasPerson ?person .
                  ?person ns1:hasDescendent ?victim descent .
                  ?report ns1:hasDateTime ?o
                  FILTER (?victim descent !=")
            }
      GROUP BY ?victim descent ?year ?month
      ORDER BY?victim descent ?year ?month
```

Question:

For a given url reference, what are rdf triples that contain such a reference? Query:

```
Let X be the url reference
SELECT ?s ?p ?o WHERE {
      {
            SELECT (COALESCE(X) as ?s) ?p ?o
            WHERE {
                 X ?p ?o
      } UNION {
            SELECT ?s (COALESCE(X) as ?p) ?o
            WHERE {
                  ?s X ?o
     } UNION {
            SELECT ?s ?p (COALESCE(X) as ?o)
            WHERE {
                  ?s ?p X
            }
      }
}
```

Question:

What is the ratio of the number of arrests of a person who committed a crime at a particular location to that of the total number of crimes located at that location?

Query:

```
SELECT (COUNT (?crime report) AS ?number of crimes)
            WHERE {
                   ?crime report rdf:type ns1:CrimeReport .
                   ?crime report ns1:hasLocation ?location .
                   ?location ns1:hasAddress ?c_crime_address .
                  FILTER (?c_crime_address = '6TH ST')
            }
        }
Question: What is the distribution of crimes across different premises?
Query:
      SELECT ?premiseName (COUNT(?premiseName) AS ?count)
      WHERE {
            ?report rdf:type ns1:CrimeReport .
            ?report ns1:hasPremise ?premise .
            ?premise ns1:hasPremiseDescription ?premiseName
      GROUP BY ?premiseName
      ORDER BY DESC(?count)
```