For my final assignment, I chose to visualize some of my RDF triples using the SPARQL and ggplot2 packages in R.

I chose to make 5 visualizations that I felt would best represent the work that I had done to reconcile the dataset.

Most of the data manipulation was carried out in the R Scripts that I have stored in this GitHub repository:

https://github.com/jtornberg97/INLS-620-Final-Project

The SPARQL queries that I ran to retrieve the data for each visualization are listed below:

Normalized Average Home Runs Allowed Per Team 1960-2015

```
PREFIX xsd: <a href="http://www.w3.org/2001/XMLSchema#">http://www.w3.org/2001/XMLSchema#</a>
  PREFIX MLB: <a href="http://localhost:3333/">http://localhost:3333/>
  PREFIX foaf: <a href="http://xmlns.com/foaf/0.1/">http://xmlns.com/foaf/0.1/>
  SELECT ?TeamSeason ?TeamName ?HRA ?yearID
  WHERE {
   ?TeamSeason MLB:HomeRunsAllowed ?HRA.
   ?TeamSeason MLB:TeamName ?TeamName .
   ?TeamSeason MLB:Year ?yearID .
    FILTER (?yearID > 1960).
  }
Normalized Earned Run Average Per Team 1960-2015
 PREFIX xsd: <a href="http://www.w3.org/2001/XMLSchema#">http://www.w3.org/2001/XMLSchema#</a>
 PREFIX MLB: <a href="http://localhost:3333/">http://localhost:3333/>
 PREFIX foaf: <a href="http://xmlns.com/foaf/0.1/">http://xmlns.com/foaf/0.1/>
 SELECT ?TeamSeason ?TeamName ?ERA ?yearID
 WHERE {
  ?TeamSeason MLB:EarnedRunAverage ?ERA.
  ?TeamSeason MLB:TeamName ?TeamName .
  ?TeamSeason MLB:Year ?yearID .
     FILTER (?yearID > 1960).
}
Home Runs Per Team 1980 v.s. 2000
 SELECT ?TeamName ?HR ?yearID
 WHERE {
  ?TeamSeason MLB:HomeRuns ?HR.
```

```
?TeamSeason MLB:TeamName ?TeamName .
  ?TeamSeason MLB:Year ?yearID .
   FILTER(?yearID = 1980)
}
Total Home Runs Per Season 1900-2015
SELECT ?TeamSeason ?HR ?yearID
WHERE {
  ?TeamSeason MLB:HomeRuns ?HR.
  ?TeamSeason MLB:Year ?yearID .
   FILTER ((?yearID > 1900) && (?yearID < 2016))
}
Chicago Cubs Home Runs Per Year 1980-2000
SELECT ?TeamName ?HR ?yearID
WHERE {
  ?TeamSeason MLB:HomeRuns ?HR.
  ?TeamSeason MLB:TeamName ?TeamName .
   FILTER (?TeamName = 'Chicago Cubs')
  ?TeamSeason MLB:Year ?yearID .
   FILTER (?yearID > 1989 && ?yearID < 2001).
}
```