## Scott Berry

1) Explain the differences between RDD and a traditional Relational Database System.

A RDD is a memory structure created by a Spark job. This data is loaded from a file or a database and organized for the context of a spark job to execute. Once the job is complete, the temporary RDD is deleted. On the other hand, a Relational Database System is a storage system that is permanently accessible after Spark jobs are complete.

2) Using pyspark create a word count application of all the words of the file. Avoid counting trivial words such as vowels and pronouns.

```
int Feb 12 20:06:49 berry00sSXTOP-SCOT MINGW64 ~/OmeDrive/Documents/Indiana University/Spring 2022/Data Science On Ramp/DsOnRampSpark (Master)

python code_snippet.py

022-02-12 20:06:52,813 MARN util.Shell: Did not find winutils.exe: {}

iava.io.FileOxforundException: Could not locate Hadoop executable: C:\Madoop\hadoop-3.3.1\bin\winutils.exe -see https://wiki.apache.org/hadoop/WindowsProblems

at org.apache.hadoop.util.Shell.getQualifiedBinInner(Shell.java:Si9)

at org.apache.hadoop.util.Shell.getQualifiedBinInner(Shell.java:Si9)

at org.apache.hadoop.util.Shell.clinito(Shell.java:Si9)

at org.apache.hadoop.orf.Configuration.getTimeDurationHelper(Configuration.java:1886)

at org.apache.hadoop.conf.Configuration.getTimeDuration(Configuration.java:1886)

at org.apache.hadoop.conf.Configuration.getTimeDuration(Configuration.java:1886)

at org.apache.hadoop.conf.Configuration.getTimeDuration(Configuration.java:1886)

at org.apache.hadoop.conf.Configuration.getTimeDuration(Configuration.java:1840)

at org.apache.hadoop.conf.ShellowshellowShanager.getShutdownflowInfiguration.java:1840)

at org.apache.hadoop.conf.Configuration.getTimeDuration(Configuration.java:1840)

at org.apache.spark.util.ShutdownflookManager.scallation.getShellowshellowShanager.scallation.getShellowshellowShanager.scallation.getShellowshellowShanager.scallation.getShellowshellowShanager.scallation.getShellowshellowShanager.scallation.getShellowshellowShanager.scallation.getShellowshellowShanager.scallation.getShellowshellowShanager.scallation.getShellowshellowShanager.scallation.getShellowshellowShanager.scallation.getShellowshellowShanager.scallation.getShellowshellowShanager.scallation.getShellowshellowShanager.scallation.getShellowshellowShanager.scallation.getShellowshellowShanager.scallation.getShellowshellowShanager.scallation.getShellowshellowShanager.scallation.getShellowshellowShanager.scallation.getShellowshellowShanager.scallation.getShellowshellowShanager.scallation.getShellowshellowShellowShellowShellowShellowShellowShellowShellowS
```

There was more than I could screenshot. I noticed that this function would be improved by interpreting all words as lower case and additionally stripping out punctuation marks.