Week 3

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DSC 650 Big Data

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Query Results

Time taken: 0.475 seconds [hive> select * from grades;										
OK										
Alfalfa	Aloysius	S	123-45-6	6789	40.0	90	100.0	83.0	49.0	D-
Alfred	Univers	ity	123-12-	1234	41.0	97	96.0	97.0	48.0	D+
Gerty	Gramma	567-89-	0123	41.0	80	60.0	40.0	44.0	С	
Android	Electric		087-65-	4321	42.0	23	36.0	45.0	47.0	B-
Bumpkin	Fred	456-78-	9012	43.0	78	88.0	77.0	45.0	A-	
Rubble	Betty	234-56-	7890	44.0	90	80.0	90.0	46.0	C-	
Noshow	Cecil	345-67-	8901	45.0	11	-1.0	4.0	43.0	F	
Buff	Bif	632-79-	9939	46.0	20	30.0	40.0	50.0	B+	
Airpump	Andrew	223-45-	6789	49.0	1	90.0	100.0	83.0	Α	
Backus	Jim	143-12-	1234	48.0	1	97.0	96.0	97.0	A+	
Carnivore Art			565-89-0	0123	44.0	1	80.0	60.0	40.0	D+
Dandy	Jim	087-75-	4321	47.0	1	23.0	36.0	45.0	C+	
Elephant	t	Ima	456-71-9	9012	45.0	1	78.0	88.0	77.0	B-
Franklin Benr		Benny	234-56-2	2890	50.0	1	90.0	80.0	90.0	B-
George	Boy	345-67-	3901	40.0	1	11.0	-1.0	4.0	В	
Heffalump I		Harvey	632-79-9	9439	30.0	1	20.0	30.0	40.0	C
Time taken: 0.165 seconds, Fetched: 16 row(s)										
hive> [

Query 1

```
[hive> select * from grades where Grade == 'D-';
OK
Alfalfa Aloysius 123-45-6789 40.0 90 100.0 83.0 49.0 D-
Time taken: 0.157 seconds, Fetched: 1 row(s)
hive> [
```

```
hive> select * from grades order by Grade DESC;
2023-12-15 19:19:00,085 INFO [5584a93e-f985-44a2-93fa-eff163d76859 main] reducesink.VectorReduceSin
plan.VectorReduceSinkInfo@11267e87
Query ID = root_20231215191859_e9ba5317-9661-4fde-81a0-6996f9a3cfc2
Total jobs = 1
Launching Job 1 out of 1
Status: Running (Executing on YARN cluster with App id application_1702665752924_0006)
          VERTICES
                          MODE
                                         STATUS TOTAL COMPLETED RUNNING PENDING FAILED KILLED
Map 1 ..... container
                                     SUCCEEDED
                                                                                                              0
                                     SUCCEEDED
                                                                                           0
                                                                                                    0
                                                                                                              0
Reducer 2 ..... container
                                                                                0
VERTICES: 02/02 [=============>>] 100% ELAPSED TIME: 5.00 s
OK
Noshow Cecil 345-67-8901
Alfalfa Aloysius 123-
Alfred University 123-
                                       45.0
                                                11
                                                          -1.0
                                                                    4.0
                                                                              43.0
                        123-45-6789
                                                40.0
                                                          90
                                                                    100.0
                                                                             83.0
97.0
                                                                                       49.0
                             123-12-1234
                                                          97
                                                41.0
                                                                    96.0
                                                                                       48.0
                                                                                                 D+
Carnivore
                  Art
                            565-89-0123
                                                44.0
                                                                    80.0
                                                                              60.0
                                                                                       40.0
                                                                                                 D+
Rubble Betty
Dandy Jim
                  234-56-7890
                                       44.0
                                                 90
                                                          80.0
                                                                    90.0
                                                                              46.0
                                                                                       C-
                   087-75-4321
                                       47.0
                                                          23.0
                                                                    36.0
                                                                              45.0
                                                                                       C+
Heffalump Harvey 632-79-9439
Gerty Gramma 567-89-0123 41.0
Android Electric 087-65-4321
                                                 30.0
                                                                    20.0
                                                                              30.0
                                                                                       40.0
                                                                                                 С
                                       41.0
                                                 80
                                                          60.0
                                                                    40.0
                             087-65-4321
                                                 42.0
                                                                    36.0
                                                                              45.0
                                                                                       47.0
Elephant
                   Ima
                             456-71-9012
                                                 45.0
                                                                    78.0
                                                                              88.0
                                                                                       77.0
                   Benny 234-
632-79-9939
                             234-56-2890
                                                                    90.0
                                                                                       90.0
Franklin
                                                 50.0
                                                                              80.0
Buff Bif
George Boy
Bumpkin Fred
                                                          30.0
                                       46.0
                                                 20
                                                                    40.0
                                                                              50.0
                                                                                       B+
                                                                    -1.0
77.0
                   345-67-3901
                                       40.0
                                                          11.0
                                                                              4.0
                                                                                       В
                   456-78-9012
                                                 78
                                                                              45.0
                                       43.0
                                                          88.0
                                                                                       A-
Backus Jim
                                                          97.0
                                                                                       A+
                   143-12-1234
                                       48.0
                                                                    96.0
                                                                              97.0
                                                1
Airpump Andrew 223-45-6789
                                       49.0
                                                                    100.0
                                                                             83.0
                                                1
                                                          90.0
Time taken: 5.907 seconds, Fetched: 16 row(s) hive>
```

Summary

The data set selected contains IMDb Movie rating. This data set was chosen to analyze Ratings and the Gross generated by the movies. The first query confirms if the data has been loaded correctly prior to beginning analysis. There is a limit set to 10 so that there is not an excess of data being omitted.

Query 1

The next query involves obtaining the movies with the highest ratings. Because the data is not yet cleansed, the filters are set to movies that are within 8 and 10 rating. This is done to ensure there are no movie with a rating above 10. Also, it is inclusive of movies with over 500 ratings. Again, it is limited to only the top 10 movies.

Lastly, the final query involves pulling the gross worldwide to see which movies have the highest gross. This quick analysis is meant to discover if the movies with the best rating have equally high world-wide gross. Based on the data and filters, there are not the same top 10 for ratings and revenue.

```
[hive> select Title, GrossWorldWide from Movie_Ratings ORDER BY GrossWorldWide DESC Limit 10;
2023-12-16 18:33:06,427 INFO [bedf0a12-5e1f-472c-a19b-464d5215791b main] reducesink.VectorReduceSink
.plan.VectorReduceSinkInfo@3833897c
Query ID = root_20231216183306_ce3baece-24a4-4225-9520-a66adcc1814c
Total jobs = 1
Launching Job 1 out of 1
Status: Running (Executing on YARN cluster with App id application_1702748408152_0009)
        VERTICES
                      MODE
                                   STATUS TOTAL COMPLETED RUNNING
                                                                      PENDING FAILED KILLED
                               SUCCEEDED
                                                                                             0
Map 1 ..... container
                                                                                    0
                                                                                            0
Reducer 2 ..... container
                               SUCCEEDED
                                    =======>>] 100% ELAPSED TIME: 5.61 s
VERTICES: 02/02 [=======
OK
Avatar 2923.706
                        2799.439
Avengers: Endgame
                              2320.25
Avatar: The Way of Water
Titanic 2264.743
Star Wars: Episode VII - The Force Awakens
Avengers: Infinity War 2052.415
                                                 2071.31
Spider-Man: No Way Home 1921.847
Jurassic World 1671.537
The Lion King
                1663.075
                1520.539
The Avengers
Time taken: 6.473 seconds, Fetched: 10 row(s)
hive>
```