REVIEW 2 PDC J COMPONENT

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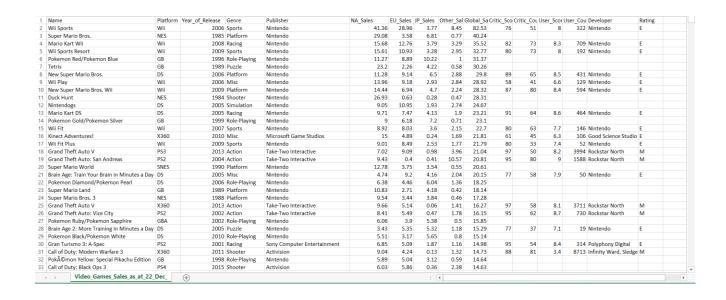
Project Topic:

Analysis of the video game dataset 'video_games_sales_as_at_22_dec_2016' which has been obtained from Kaggle.com.

The dataset describes video games sales of different games over the course of the last 20 years. It has more than 16500 entries.

It also describes critics and user ratings.

Visualisation:



Project Plan:

We plan to analyse the data and report various findings that could help companies that make games to increase sales and know what consumers like.

To implement our analysis, Hortonworks Sandbox is used to instantiate the Hadoop Cluster. 'Hive 1.0' is then used to run SQL gueries on the non-relational database.

We will also visualize the results using Hive and Python.

Example:

Let us take an example and find out the year when most games were released.

1. Open Sandbox in VirtualBox & open the browser to localhost:8080 to access Ambari.

```
File Machine View Input Devices Help

[ OK ] Started Authorization Manager.
Starting Network Manager Script Dispatcher Service...

[ OK ] Started Network Manager Script Dispatcher Service...

[ OK ] Started Network Manager Wait Online.
Starting LSB: Bring up/down networking...

[ OK ] Started LSB: Bring up/down networking...

[ OK ] Reached target Network.
Starting Dynamic System Tuning Daemon...

[ OK ] Started OpenSSH server daemon...
Starting OpenSSH server daemon...
Starting Postfix Mail Transport Agent...
Starting /etc/rc.d/rc.local Compatibility...

[ OK ] Reached target Network is Online.
Starting Crash recovery kernel arming...
Starting Docker Application Container Engine...

[ OK ] Started /etc/rc.d/rc.local Compatibility.

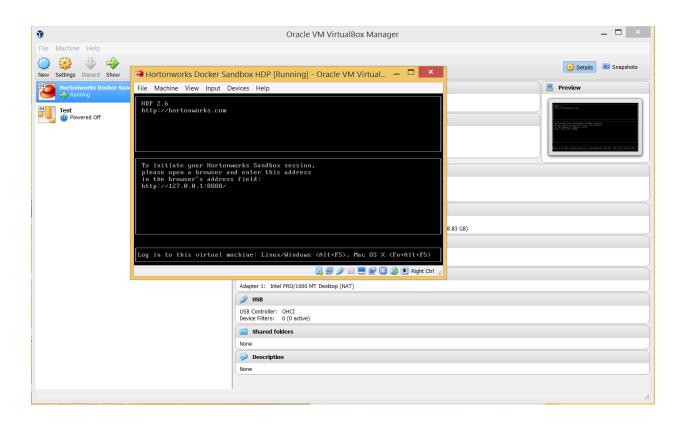
[ OK ] Started Network Manager Script Dispatcher Service...

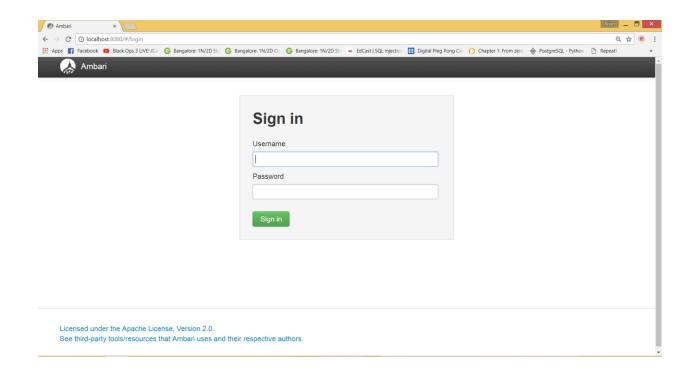
[ OK ] Started Dynamic System Tuning Daemon.
Starting Network Manager Script Dispatcher Service...

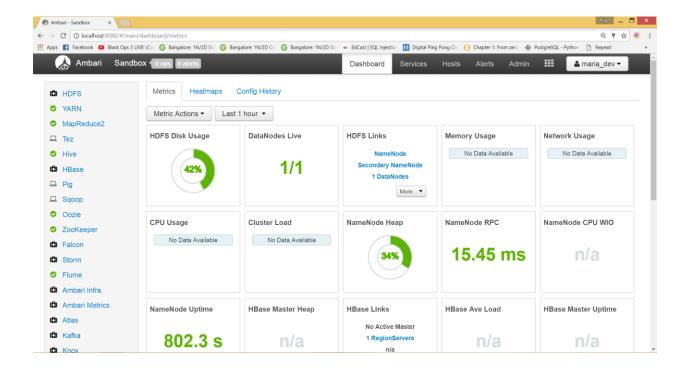
[ OK ] Started Network Manager Script Dispatcher Service...

[ OK ] Started Network Manager Script Dispatcher Service...

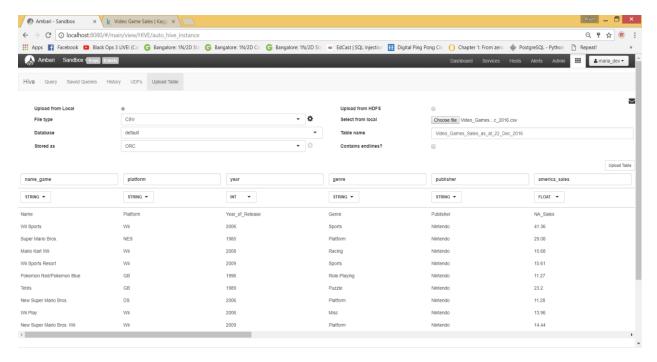
[ OK ] Started Docker Application Container Engine.
Starting SandboxContainer...
```







2. Once the Hadoop Cluster is running, open Hive & upload Dataset. Columns have been renamed for convenience.



3. Now run the sql query

Query:

```
SELECT year , count(year) as yearcount
FROM video_games_sales_as_at_22_dec_2016
GROUP BY year
ORDER BY yearcount;
```

Result:

1995	219
1996	263
1997	289
1999	338
2000	350
1998	379
2001	482
2016	502
2013	544
2014	581
2015	606
2012	653
2004	762
2003	775
2002	829
2005	939
2006	1006
2011	1136
2007	1197
2010	1255
2009	1426
2008	1427

Conclusion: Clearly, the most games were released in 2008.

We plan to find more such results by Review 3.