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Log analysis project #3 Udacity Full Stack Nanodegree

OVERVIEW

The purpose of this project is to connect to the News database and to obtain results of 3 specific questions, listed below:

What are the most popular articles of all time?
Who are the most popular authors of all time?
Which days did more than 1% of request lead to errors?

INSTRUCTIONS

In order to run this project you need to make sure you have downloaded

- Python 3
- Vagrant
- Virtual box

Launching the virtual machine:

- Download the database file https://d17h27t6h515a5.cloudfront.net/topher/2016/August/57b5f748_newsdata/n ewsdata.zip
- Unzip the file
- Vagrant up
- Vagrant ssh
- Cd /vagrant
- Psql –d news -f newsdata.sql
- \dt (view of all the tables and data)

Name of the file: logs.py in order to run the queries

CREATE VIEW COMANDS

QUERY 1

SELECT articles.title, COUNT(*) as views FROM articles JOIN log on articles.slug = substring(log.path,10) WHERE path != '/'GROUP by substring(log.path, 10),articles.title ORDER BY views desc LIMIT 3;

QUERY 2

SELECT authors.name, count(log.path) as views FROM authors left join articles on authors.id = articles.author left JOIN log on log.path like concat('%', articles.slug) GROUP BY authors.name ORDER BY views desc;

OUERY 3

```
create view
a1 as SELECT to_char(time,'FMMonth FMDD, YYYY'), COUNT(status) as total FROM log WHERE
status = '404 NOT FOUND' GROUP BY to_char(time,'FMMonth FMDD, YYYY;

create view
r2 as SELECT to_char(time,'FMMonth FMDD, YYYY'), COUNT(status) as total FROM log GROUP
BY to_char(time,'FMMonth FMDD, YYYY;

create view
rate_val as SELECT r2.to_char, cast(a1.total*100 as float)/ cast(r2.total as float) as
val FROM a1,r2 WHERE a1.to_char = r2.to_char;

create view
SELECT * FROM rate_val WHERE val > 1;
```

EXPECTED VIEW RESULTS

#Query1

What are the most popular articles of all time?

news=> select articles.title, count(*) as views from articles join log on articles.slug = substring(log.path,10) where path != '/'group by substring(log.path, 10), articles.title order by views desc limit 3;

titte	L	views
Candidate is jerk, alleges rival	ï	338647
Bears love berries, alleges bear	ı	253801
Bad things gone, say good people	I	170098
(3 rows)		

#Query2

Who are the most popular authors of all time?

news=> select authors.name, count(log.path) as views from authors left join articles on authors.id = articles.author left join log on log.path like concat('%', articles.slug) group by authors.name order by views desc;

name \	views
Rudolf von Treppenwitz	507594 423457 170098 84557

#Query3

Which days did more than 1% of request lead to errors?

DBNAME= "news"

REFERENCES

I used this websites as additional resources to complete this project:

https://www.youtube.com/watch?v=8LnWXxYYB 4

https://docs.python.org/2/library/functions.html#int https://www.vagrantup.com/docs/cli/

https://stackoverflow.com/questions/1108742/sql-round-function

https://stackoverflow.com/questions/5420789/how-to-install-psycopg2-with-pip-on-python

 $\underline{https://stackoverflow.com/questions/28677670/why-isnt-pycharms-autocomplete-working-for-libraries-i-install}$

https://discussions.udacity.com