CA675 Cloud Assignment

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Task 1 - Acquire the top 2,00,000 posts by ViewCount

Query executed on stackexchange data platform to retrieve the top 2,00,000 posts by viewcount https://data.stackexchange.com/stackoverflow/query/new

To retrieve top 2,00,000 records by viewcount, I have first find out the max viewcount from posts table and which was 10062790.

Query - select max(ViewCount) as viewcount from posts;

With that 4 queries, the sql is executed in following manner to extract top 2,00,000 records. Query 1 - select top 50000 psts.ld,psts.Score,psts.ViewCount,psts.Body, users.ld as OwnerUserld, users.DisplayName,psts.Title,psts.Tags from Posts psts inner join Users users on psts.OwnerUserld=users.ld where psts.ViewCount>1000 and psts.ViewCount < 10062791 order by psts.ViewCount desc

Query 2 - select top 50000 psts.ld,psts.Score,psts.ViewCount,psts.Body, users.ld as OwnerUserld, users.DisplayName,psts.Title,psts.Tags from Posts psts inner join Users users on psts.OwnerUserld=users.ld where psts.ViewCount>1000 and psts.ViewCount < 124974 order by psts.ViewCount desc

Query 3 - select top 50000 psts.ld,psts.Score,psts.ViewCount,psts.Body, users.ld as OwnerUserld, users.DisplayName,psts.Title,psts.Tags from Posts psts inner join Users users on psts.OwnerUserld=users.ld where psts.ViewCount>1000 and psts.ViewCount < 73139 order by psts.ViewCount desc

Query 4 - select top 50000 psts.ld,psts.Score,psts.ViewCount,psts.Body, users.ld as OwnerUserld, users.DisplayName,psts.Title,psts.Tags from Posts psts inner join Users users on psts.OwnerUserld=users.ld where psts.ViewCount>1000 and psts.ViewCount < 52110 order by psts.ViewCount desc

In output, the 4 csv files were created and combined all that in one combined.csv

Task 2 & 3 - Use Pig/Hive/MapReduce - Extract, Transform and Load the data as applicable to get:

This assignment is completed on Google Cloud Platform by creating the cluster with Dataproc service. The google cloud was easy to understand and the cluster creation was easy through DataProc. Instance was configured with Jupyter notebook to execute the python code. I have used the Hive in cluster creation because of the prior hands-on experience in sql query language.

Created the ca675 Database and Table under same database.

Table creation query - CREATE TABLE IF NOT EXISTS ca675.Stackexchange (Id int,Score int,ViewCount int,Body string, OwnerUserId int, OwnerDisplayName string, Title string, Tags string) ROW FORMAT SERDE 'org.apache.hadoop.hive.serde2.OpenCSVSerde';

Data Cleaning

Before loading data into the Hive, I have cleaned the body column on google colab jupyter notebook with following code snippet.

```
df['Body'] = df['Body'].str.replace(r'<[^<>]*>', '', regex=True)
df["Body"] = df['Body'].str.replace('[^\w\s]','', regex=True)
df["Body"] = df['Body'].str.replace('[^a-zA-Z]', ' ', regex=True)
df["Body"] = df['Body'].str.replace(r'\n',' ', regex=True)
```

Data Loading into Hive

Uploaded the csv file in assigned google cloud storage and loaded the data through below sql query - LOAD DATA INPATH 'gs://dataproc-staging-us-central1-1078341724532- t5a0gorr/combined.csv' INTO TABLE ca675.Stackexchange;

After Succesful data loading, the Jupyter is accessed by cloud public address.

Installed below packages in cloud ubantu environment -

```
! pip install sasl
```

! pip install thrift

! pip install thrift-sasl

! pip install PyHive

In [20]:

```
from pyhive import hive
from tabulate import tabulate
import pandas as pd
```

In [21]:

```
host_name = "localhost"
port = 10000
user = "sarthak_taru2"
password = "509485636803468691"
database="ca675"
conn = hive.Connection(host=host_name,port=port,username=user,password=password,database=database,auth='CUSTOM')
cur = conn.cursor()
```

Task 2.1. The top 10 posts by score

In [30]:

```
cur.execute('''select Id,OwnerUserId,OwnerDisplayName,Score,ViewCount
FROM ca675.stackexchanges order by Score desc LIMIT 10''')
result = cur.fetchall()
df = pd.DataFrame (result, columns =['Id','OwnerUserId','OwnerDisplayName','Score','ViewCount'])
display(df)
```

	ld	OwnerUserId	OwnerDisplayName	Score	ViewCount
0	11227809	87234	GManNickG	25933	1649855
1	927358	89904	Hamza Yerlikaya	23348	10062790
2	2003505	95592	Matthew Rankin	18514	9285139
3	292357	6068	pupeno	12834	3041604
4	231767	18300	Alex. S.	11551	2681330
5	477816	12870	Oli	10921	3269028
6	348170	14069	paxos1977	10079	3985243
7	5767325	364969	Walker	9931	8937271
8	6591213	338204	Forrest	9792	3729583
9	1642028	87234	GManNickG	9560	877861

Task 2.2 The top 10 users by post score

In [28]:

```
cur.execute('''
select OwnerUserId,max(OwnerDisplayName) , sum(Score) as score
from stackexchanges
group by OwnerUserId
order by Score desc limit 10
''')
result = cur.fetchall()
df1 = pd.DataFrame (result, columns = ['OwnerUserId','OwnerDisplayName','score'
])
display(df1)
```

	OwnerUserId	OwnerDisplayName	score
0	87234	GManNickG	37672
1	4883	readonly	28817
2	9951	e-satis	26878
3	6068	pupeno	25944
4	89904	Hamza Yerlikaya	24024
5	51816	Joan Venge	23763
6	49153	Ali	20203
7	179736	TIMEX	19603
8	95592	Matthew Rankin	19479
9	63051	flybywire	19362

Task 3 - he number of distinct users, who used the word "cloud" in one of their posts

Here I have considered the Body **and** Title to find out the total count of owner user id who used the word cloud in one of their posts.

In [39]:

```
cur.execute('''
SELECT
COUNT(DISTINCT OwnerUserId) as owner_user_count
FROM stackexchanges
WHERE Title LIKE '% Cloud %' AND Body LIKE '% Cloud %'
''')
result = cur.fetchall()
df2 = pd.DataFrame (result, columns = ['Owner_User_Count'])
display(df2)
```

Owner_User_Count

0 168

Task 4 - calculate the per-user TF-IDF of the top 10 terms for each of the top 10 users

So first of all, I have extracted the top 10 owner user id with their titles and created the list of top 10 users.

In [35]:

```
df3 = pd.read_sql("""
SELECT OwnerUserId,OwnerDisplayName,Title,Body
from stackexchanges
WHERE OwnerUserId
IN
(
select OwnerUserId from(select OwnerUserId,max(OwnerDisplayName),sum(Score) as s
core
from stackexchanges
group by OwnerUserId
order by score desc limit 10)stack
)
order by OwnerUserId""", conn)
result = cur.fetchall()
top_10_users = list(df3["owneruserid"].unique())
display(top_10_users)
```

[4883, 6068, 9951, 49153, 51816, 63051, 87234, 89904, 95592, 179736]

I have taken the reference from below site to implement tfidf

https://scikitlearn.org/stable/modules/generated/sklearn.feature_extraction.text.TfidfVectorizer.html (https://scikitlearn.org/stable/modules/generated/sklearn.feature_extraction.text.TfidfVectorizer.html) for each of the owner and their top 10 words plot the table accordingly.

In [36]:

```
from sklearn.feature extraction.text import TfidfVectorizer
def calculate tfidf(title each user):
   TitleCopy = title_each_user["title"].copy()
   vectorizer = TfidfVectorizer(stop words='english',lowercase=True)
   response = vectorizer.fit transform(title each user['body'].str.cat(' '+Titl
eCopy))
   df tfidf words = pd.DataFrame(response.toarray(),columns=vectorizer.get feat
ure names()) #calculating tf-idf values
   df final result per user=df tfidf words.sum(axis=0, numeric only= True) #sum
ing up the tf-idf to get the top 10 words
   top words = df final result per user.nlargest(n=10)
   top 10 words = list(top words.index)
   return(df tfidf words[top 10 words])
for each item in top 10 users: # Iterating through top 10 users
   owneruserid = str(each item)
   selectTitle=df3.loc[df3['owneruserid'] == each item]
   selectTitle.insert(0,'Owneruserid',each item)
   tfidf=calculate_tfidf(selectTitle)
   tfidf.insert(0,'owneruserid',owneruserid)
   display(tfidf)
```

	owneruserid	python	use	ruby	list	table	way	difference	br
0	4883	0.000000	0.000000	0.000000	0.000000	0.521156	0.000000	0.000000	0.00
1	4883	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.00
2	4883	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.00
3	4883	0.072578	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.00
4	4883	0.160147	0.000000	0.219470	0.438941	0.000000	0.184107	0.000000	0.00
5	4883	0.000000	0.000000	0.000000	0.202044	0.000000	0.169489	0.000000	0.00
6	4883	0.000000	0.198917	0.000000	0.000000	0.255265	0.099459	0.000000	0.00
7	4883	0.121700	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.00
8	4883	0.000000	0.000000	0.000000	0.000000	0.000000	0.181739	0.000000	0.00
9	4883	0.219948	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.00
10	4883	0.149597	0.000000	0.000000	0.000000	0.000000	0.000000	0.220697	0.00
11	4883	0.000000	0.000000	0.000000	0.000000	0.000000	0.123956	0.000000	0.34
12	4883	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.00
13	4883	0.000000	0.000000	0.413988	0.000000	0.000000	0.000000	0.000000	0.00
14	4883	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.00
15	4883	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.00
16	4883	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.00
17	4883	0.000000	0.120015	0.000000	0.000000	0.308023	0.120015	0.000000	0.00
18	4883	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.00
19	4883	0.087249	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.00
20	4883	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.00
21	4883	0.101808	0.234079	0.000000	0.418562	0.000000	0.000000	0.000000	0.00
22	4883	0.000000	0.000000	0.404077	0.000000	0.000000	0.000000	0.000000	0.00
23	4883	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.00
24	4883	0.000000	0.000000	0.000000	0.142349	0.000000	0.000000	0.000000	0.00
25	4883	0.195328	0.112276	0.000000	0.000000	0.000000	0.000000	0.288162	0.00
26	4883	0.251336	0.000000	0.000000	0.000000	0.000000	0.144470	0.000000	0.00
27	4883	0.000000	0.000000	0.209780	0.000000	0.000000	0.000000	0.000000	0.00
28	4883	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.00
29	4883	0.000000	0.191672	0.000000	0.000000	0.000000	0.000000	0.491935	0.00
30	4883	0.146760	0.168717	0.000000	0.000000	0.000000	0.000000	0.000000	0.00
31	4883	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.63
32	4883	0.000000	0.231741	0.000000	0.000000	0.000000	0.000000	0.000000	0.00

	owneruserid	file	java	android	git	sql	way	like	1
0	6068	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000
1	6068	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.198
2	6068	0.000000	0.000000	0.000000	0.728914	0.000000	0.000000	0.000000	0.000
3	6068	0.000000	0.000000	0.130150	0.000000	0.000000	0.000000	0.000000	0.000
4	6068	0.000000	0.000000	0.173267	0.000000	0.000000	0.000000	0.000000	0.389
5	6068	0.000000	0.000000	0.000000	0.000000	0.000000	0.140540	0.000000	0.000
6	6068	0.000000	0.386646	0.000000	0.000000	0.000000	0.000000	0.000000	0.000
7	6068	0.000000	0.000000	0.275010	0.000000	0.000000	0.000000	0.000000	0.000
8	6068	0.000000	0.000000	0.000000	0.000000	0.217416	0.000000	0.000000	0.000
9	6068	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.047141	0.000
10	6068	0.000000	0.000000	0.148172	0.000000	0.000000	0.000000	0.000000	0.000
11	6068	0.000000	0.000000	0.334555	0.000000	0.000000	0.124201	0.000000	0.000
12	6068	0.000000	0.000000	0.000000	0.000000	0.000000	0.076296	0.158251	0.000
13	6068	0.000000	0.000000	0.000000	0.000000	0.105437	0.000000	0.072167	0.000
14	6068	0.656317	0.000000	0.000000	0.417075	0.000000	0.085457	0.000000	0.000
15	6068	0.138956	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000
16	6068	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000
17	6068	0.000000	0.000000	0.000000	0.000000	0.000000	0.080992	0.000000	0.000
18	6068	0.116987	0.000000	0.000000	0.000000	0.692403	0.000000	0.094784	0.000
19	6068	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000
20	6068	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.037598	0.000
21	6068	0.166608	0.000000	0.000000	0.000000	0.262958	0.130161	0.000000	0.000
22	6068	0.371197	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000
23	6068	0.000000	0.000000	0.000000	0.000000	0.000000	0.089291	0.000000	0.135
24	6068	0.307285	0.000000	0.000000	0.000000	0.000000	0.120032	0.124483	0.000
25	6068	0.000000	0.000000	0.352152	0.000000	0.000000	0.000000	0.000000	0.000
26	6068	0.083346	0.370875	0.000000	0.000000	0.000000	0.000000	0.067528	0.000
27	6068	0.000000	0.000000	0.000000	0.000000	0.000000	0.029332	0.060840	0.000
28	6068	0.000000	0.000000	0.000000	0.000000	0.000000	0.093310	0.290312	0.000
29	6068	0.000000	0.364640	0.000000	0.000000	0.000000	0.000000	0.000000	0.000
30	6068	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000
31	6068	0.000000	0.000000	0.000000	0.142581	0.000000	0.087643	0.090893	0.000
32	6068	0.000000	0.154458	0.000000	0.000000	0.000000	0.108471	0.000000	0.328
33	6068	0.000000	0.000000	0.000000	0.000000	0.000000	0.083163	0.000000	0.000
34	6068	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000
35	6068	0.000000	0.390426	0.000000	0.000000	0.000000	0.000000	0.071088	0.000
36	6068	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.106695	0.000

	owneruserid	python	like	git	head	does	using	way	
0	9951	0.000000	0.000000	0.000000	0.000000	0.000000	0.299606	0.000000	0.000
1	9951	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000
2	9951	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000
3	9951	0.000000	0.000000	0.179128	0.734307	0.000000	0.000000	0.000000	0.000
4	9951	0.000000	0.000000	0.187925	0.000000	0.062642	0.000000	0.059024	0.000
5	9951	0.109076	0.092250	0.000000	0.000000	0.000000	0.000000	0.000000	0.000
6	9951	0.000000	0.033760	0.000000	0.000000	0.000000	0.159673	0.112839	0.119
7	9951	0.000000	0.000000	0.338695	0.000000	0.000000	0.000000	0.000000	0.000
8	9951	0.081895	0.138523	0.000000	0.000000	0.163789	0.000000	0.000000	0.000
9	9951	0.000000	0.000000	0.416684	0.379585	0.138895	0.000000	0.000000	0.138
10	9951	0.155490	0.328761	0.000000	0.000000	0.000000	0.000000	0.146510	0.000
11	9951	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.083623	0.000
12	9951	0.441995	0.000000	0.000000	0.000000	0.000000	0.000000	0.277646	0.000
13	9951	0.000000	0.066630	0.078782	0.000000	0.000000	0.000000	0.000000	0.000
14	9951	0.000000	0.000000	0.000000	0.000000	0.384412	0.000000	0.144885	0.000
15	9951	0.000000	0.000000	0.000000	0.000000	0.227740	0.000000	0.000000	0.113
16	9951	0.000000	0.000000	0.000000	0.000000	0.000000	0.236845	0.000000	0.000
17	9951	0.000000	0.169226	0.000000	0.000000	0.000000	0.000000	0.000000	0.200
18	9951	0.525068	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.262
19	9951	0.000000	0.000000	0.075446	0.000000	0.000000	0.150893	0.000000	0.000
20	9951	0.000000	0.156069	0.000000	0.000000	0.000000	0.000000	0.173878	0.000
21	9951	0.000000	0.000000	0.000000	0.000000	0.000000	0.119729	0.000000	0.119
22	9951	0.000000	0.101237	0.000000	0.000000	0.119702	0.000000	0.000000	0.000
23	9951	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000
24	9951	0.079724	0.202277	0.000000	0.000000	0.000000	0.079724	0.000000	0.000

	owneruserid	javascript	array	using	php	jquery	file	want	
0	49153	0.000000	0.000000	0.076582	0.000000	0.0	0.000000	0.095828	0.0000
1	49153	0.000000	0.000000	0.000000	0.000000	0.0	0.000000	0.000000	0.0000
2	49153	0.000000	0.000000	0.000000	0.000000	0.0	0.000000	0.000000	0.0000
3	49153	0.000000	0.000000	0.000000	0.000000	0.0	0.000000	0.084953	0.0000
4	49153	0.000000	0.524079	0.053427	0.032054	0.0	0.000000	0.033427	0.4528
74	49153	0.000000	0.000000	0.000000	0.000000	0.0	0.170775	0.000000	0.0000
75	49153	0.000000	0.000000	0.000000	0.000000	0.0	0.000000	0.000000	0.0000
76	49153	0.085136	0.000000	0.000000	0.000000	0.0	0.000000	0.000000	0.0000
77	49153	0.000000	0.000000	0.067637	0.000000	0.0	0.000000	0.169268	0.0000
78	49153	0.101080	0.000000	0.084238	0.000000	0.0	0.000000	0.000000	0.0000

79 rows × 11 columns

	owneruserid	python	like	list	string	want	class	index	value
0	51816	0.000000	0.075548	0.000000	0.000000	0.000000	0.000000	0.0	0.126344
1	51816	0.000000	0.082816	0.000000	0.000000	0.000000	0.000000	0.0	0.000000
2	51816	0.000000	0.000000	0.143562	0.034883	0.000000	0.000000	0.0	0.000000
3	51816	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.0	0.000000
4	51816	0.000000	0.000000	0.000000	0.000000	0.000000	0.033316	0.0	0.000000
61	51816	0.000000	0.000000	0.000000	0.000000	0.000000	0.350645	0.0	0.000000
62	51816	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.0	0.000000
63	51816	0.393731	0.193425	0.000000	0.295685	0.266721	0.000000	0.0	0.000000
64	51816	0.231039	0.075667	0.000000	0.000000	0.000000	0.000000	0.0	0.000000
65	51816	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.0	0.000000

66 rows × 11 columns

	owneruserid	file	python	want	vs	use	standard	command	
0	63051	0.000000	0.328540	0.000000	0.000000	0.000000	0.000000	0.000000	0.00
1	63051	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.00
2	63051	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.00
3	63051	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.00
4	63051	0.000000	0.000000	0.068103	0.000000	0.000000	0.000000	0.000000	0.00
5	63051	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.00
6	63051	0.192038	0.000000	0.089639	0.000000	0.000000	0.000000	0.000000	0.00
7	63051	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.00
8	63051	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.00
9	63051	0.000000	0.146353	0.000000	0.153253	0.306505	0.000000	0.000000	0.00
10	63051	0.077215	0.000000	0.288337	0.000000	0.000000	0.000000	0.000000	0.00
11	63051	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.00
12	63051	0.000000	0.151551	0.000000	0.000000	0.000000	0.000000	0.000000	0.00
13	63051	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.00
14	63051	0.000000	0.000000	0.000000	0.386070	0.193035	0.000000	0.000000	0.00
15	63051	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.00
16	63051	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.00
17	63051	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.00
18	63051	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.00
19	63051	0.000000	0.000000	0.086165	0.000000	0.054446	0.000000	0.303110	0.17
20	63051	0.000000	0.000000	0.000000	0.227035	0.000000	0.000000	0.000000	0.00
21	63051	0.071235	0.000000	0.066501	0.000000	0.000000	0.000000	0.374298	0.17
22	63051	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.00
23	63051	0.000000	0.000000	0.172612	0.000000	0.000000	0.000000	0.000000	0.00
24	63051	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.00
25	63051	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.00
26	63051	0.318679	0.000000	0.099168	0.000000	0.000000	0.000000	0.000000	0.26
27	63051	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.00
28	63051	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.00
29	63051	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.00
30	63051	0.166264	0.000000	0.155217	0.000000	0.000000	0.466327	0.000000	0.41
31	63051	0.243946	0.000000	0.000000	0.000000	0.172682	0.547364	0.000000	0.18
32	63051	0.000000	0.113312	0.000000	0.000000	0.000000	0.000000	0.000000	0.00
33	63051	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.00
34	63051	0.000000	0.000000	0.112601	0.000000	0.000000	0.000000	0.000000	0.00
35	63051	0.102145	0.115083	0.000000	0.000000	0.000000	0.000000	0.000000	0.00
36	63051	0.000000	0.537229	0.000000	0.000000	0.000000	0.000000	0.000000	0.00

	owneruserid	file	python	want	vs	use	standard	command	
37	63051	0.000000	0.000000	0.122889	0.000000	0.000000	0.000000	0.000000	0.00
38	63051	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.00
39	63051	0.124521	0.000000	0.116247	0.000000	0.000000	0.000000	0.163572	0.00
40	63051	0.319440	0.000000	0.149107	0.000000	0.188434	0.000000	0.000000	0.00
41	63051	0.000000	0.321788	0.000000	0.000000	0.000000	0.000000	0.000000	0.00
42	63051	0.000000	0.000000	0.000000	0.232327	0.000000	0.000000	0.000000	0.00
43	63051	0.000000	0.000000	0.000000	0.253717	0.000000	0.000000	0.000000	0.00
44	63051	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.00
45	63051	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.00
46	63051	0.000000	0.000000	0.000000	0.194207	0.388413	0.000000	0.000000	0.00
47	63051	0.000000	0.000000	0.000000	0.000000	0.000000	0.207214	0.000000	0.00
48	63051	0.278703	0.000000	0.000000	0.000000	0.000000	0.000000	0.366107	0.00

	owneruserid	idiom	in	t cop	y arra	y arraysize	data	ode code	do€
0	87234	0.480997	0.00000	0 0.36074	8 0.09145	3 0.00000	0.00000	0.000000	0.24049
1	87234	0.000000	0.20335	1 0.00000	0 0.26145	2 0.30558	0.30558	0.145251	0.00000
2	87234	0.000000	0.26737	7 0.00000	0.00000	0.00000	0.00000	0.133688	0.00000
	owneruserid	file	timer	new	java	setpreferred	width ta	ablegetcolun	nnmodel
0	89904	0.000000	0.0000	0.000000	0.040077	0.6	06105		
1	89904	0.351468	0.0000	0.000000	0.000000	0.0	00000		
2	89904	0.000000	0.0000	0.000000	0.000000	0.0	00000		
3	89904	0.463315	0.0000	0.000000	0.000000	0.0	00000		
4	89904	0.000000	0.0000	0.000000	0.000000	0.0	00000		
5	89904	0.000000	0.0000	0.000000	0.313903	0.0	00000		
6	89904	0.000000	0.6912	0.235033	0.091408	0.0	00000		
7	89904	0.075479	0.0000	0.431366	0.000000	0.0	00000		
8	89904	0.000000	0.0000	0.000000	0.163094	0.0	00000		
9	89904	0.000000	0.0000	0.000000	0.000000	0.0	00000		

	owneruserid	install	python	pip	branch	installed	flask	version	start
0	95592	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.0000
1	95592	0.000000	0.373806	0.000000	0.000000	0.000000	0.000000	0.000000	0.5168
2	95592	0.427251	0.000000	0.284834	0.000000	0.000000	0.000000	0.000000	0.0000
3	95592	0.000000	0.000000	0.000000	0.000000	0.436263	0.520551	0.520551	0.0000
4	95592	0.262228	0.104891	0.104891	0.000000	0.121554	0.000000	0.000000	0.0000
5	95592	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.0000
6	95592	0.466707	0.262523	0.320861	0.000000	0.000000	0.000000	0.000000	0.0000
7	95592	0.000000	0.000000	0.000000	0.697882	0.000000	0.000000	0.000000	0.0000

	owneruserid	python	want	string	user	dictionary	file	return	
0	179736	0.170174	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.2
1	179736	0.122064	0.000000	0.163895	0.000000	0.172007	0.000000	0.000000	0.0
2	179736	0.000000	0.097942	0.000000	0.302904	0.000000	0.000000	0.000000	0.0
3	179736	0.000000	0.000000	0.000000	0.000000	0.000000	0.272653	0.000000	0.0
4	179736	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.0
110	179736	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.0
111	179736	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.1
112	179736	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.0
113	179736	0.000000	0.140351	0.000000	0.000000	0.000000	0.000000	0.000000	0.0
114	179736	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.373771	0.0

115 rows × 11 columns