

# Assignment-CA675

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## 1 TF/IDF on data stored on Hive Assignment

CA675

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### 1.1 Cleaning Data

```
[ ]: import pandas as pd
df = pd.read_csv('stackexchange_export.csv', quotechar='')
# Remove HTML Tags
df['Body'] = df['Body'].str.replace(r'<[^<>]*>', '', regex=True)
# Keep letters
df["Body"] = df['Body'].str.replace('[^a-zA-Z]', ' ', regex=True)
# Remove new line characters
df["Body"] = df['Body'].replace(r'\n', ' ', regex=True)
# Export File to be imported in Hive
df.to_csv('/home/cypherhonk/cleaned_final.csv', sep=',',
encoding='utf-8', index=None)
! chmod 755 cleaned_final.csv
```

### 1.2 Get connection to Hive

```
[81]: from pyhive import hive
from tabulate import tabulate
import pandas as pd

host_name = "localhost"
port = 10000
user = "cypherhonk"
password = "941416156866692861"
database="default"

def hiveconnection(host_name, port, user,password, database):
```

```

    conn = hive.Connection(host=host_name, port=port, username=user,
↳password=password,
                                database=database, auth='CUSTOM')

    return conn

conn = hiveconnection(host_name, port, user,password, database)
cur = conn.cursor()

## Usage example from https://github.com/dropbox/PyHive

```

## 2 Task 2 & 3

### 2.0.1 2.2.1) Querying top 10 posts by score

```

[13]: cur.execute('select ID, Title, Score, DisplayName from stackexchange_view order_
↳by score desc limit 10')
result = cur.fetchall()
print(tabulate(result, tablefmt='orgtbl'))

```

```

| 11227809 | Why is processing a sorted array faster than processing an unsorted
array? | 25933 | GManNickG |
| 927358 | How do I undo the most recent local commits in Git?
| 23348 | Hamza Yerlikaya |
| 2003505 | How do I delete a Git branch locally and remotely?
| 18514 | Matthew Rankin |
| 292357 | What is the difference between 'git pull' and 'git fetch'?
| 12834 | pupeno |
| 231767 | What does the "yield" keyword do?
| 11551 | Alex. S. |
| 477816 | What is the correct JSON content type?
| 10921 | Oli |
| 348170 | How do I undo 'git add' before commit?
| 10079 | paxos1977 |
| 5767325 | How can I remove a specific item from an array?
| 9931 | Walker |
| 6591213 | How do I rename a local Git branch?
| 9792 | Forrest |
| 1642028 | What is the "-->" operator in C/C++?
| 9560 | GManNickG |

```

### 2.0.2 2.2.2) The top 10 users by post score

[34]: *### Join data as usernames data was extracted and added post data pulling*

```
cur.execute("""
    select
        OwnerUserId,
        DisplayName,
        sum(Score) as score
    from stackexchange_view
    group by OwnerUserId,DisplayName
    order by score desc
    LIMIT 10

""")
result = cur.fetchall()
print(tabulate(result, tablefmt='orgtbl'))
```

	87234		GManNickG		37672	
	4883		readonly		28817	
	9951		e-satis		26878	
	6068		pupeno		25944	
	89904		Hamza Yerlikaya		24024	
	51816		Joan Venge		23763	
	49153		Ali		20203	
	179736		TIMEX		19603	
	95592		Matthew Rankin		19479	
	63051		flybywire		19362	

```
[20]: top_10_user_score = []
      for each_item in result:
          top_10_user_score.append(each_item[0])
      top_10_user_score
```

[20]: [87234, 4883, 9951, 6068, 89904, 51816, 49153, 179736, 95592, 63051]

### 2.0.3 2.2.3) The number of distinct users, who used the word “cloud” in one of their posts

```
[36]: cur.execute("""
      SELECT
          COUNT(DISTINCT owneruserid) as user_count
      FROM stackexchange_view
      WHERE title LIKE '% cloud %' or Body LIKE '% cloud %'
      """)
      result = cur.fetchall()
```

```
print(tabulate(result, tablefmt='orgtbl'))
```

| 248 |

## 2.1 TF/IDF

```
[74]: ### Get data for top 10 users from above list and pull data
```

```
df = pd.read_sql(f"""
SELECT

    DISTINCT owneruserid,
    displayname,
    title,
    body
from stackexchange_view
WHERE owneruserid IN {tuple(top_10_user_score)}
order by owneruserid""", conn)
```

```
[83]: # Attach body and title fields to create one field to be
```

```
df["text"] = df["title"] + df["body"]
top_10_username = list(df["displayname"].unique())
top_10_username
```

```
[83]: ['readonly',
      'pupeno',
      'e-satis',
      'Ali',
      'Joan Venge',
      'flybywire',
      'GManNickG',
      'Hamza Yerlikaya',
      'Matthew Rankin',
      'TIMEX']
```

```
[76]: ## References taken and custom function created.
```

```
## Reference : https://medium.com/@cmukesh8688/
→tf-idf-vectorizer-scikit-learn-dbc0244a911a
```

```
from sklearn.feature_extraction.text import TfidfVectorizer
```

```
# Calculate sum() of TF-IDF and get top 10 words with highest TF-IDF and select
→only those columns
```

```
def calculate_tf_idf(df):
```



11	readonly	0.000000	0.213146	0.000000	0.000000	0.000000	0.000000
12	readonly	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
13	readonly	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
14	readonly	0.000000	0.000000	0.000000	0.000000	0.402695	0.114986
15	readonly	0.000000	0.202521	0.000000	0.259890	0.000000	0.101261
16	readonly	0.073346	0.000000	0.000000	0.000000	0.000000	0.000000
17	readonly	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
18	readonly	0.167346	0.000000	0.439014	0.000000	0.000000	0.184138
19	readonly	0.000000	0.000000	0.137121	0.000000	0.000000	0.000000
20	readonly	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
21	readonly	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
22	readonly	0.276282	0.000000	0.000000	0.000000	0.000000	0.152003
23	readonly	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
24	readonly	0.000000	0.177000	0.000000	0.000000	0.000000	0.000000
25	readonly	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
26	readonly	0.000000	0.191672	0.000000	0.000000	0.000000	0.000000
27	readonly	0.203719	0.112081	0.000000	0.000000	0.000000	0.000000
28	readonly	0.092270	0.000000	0.000000	0.000000	0.000000	0.000000
29	readonly	0.000000	0.000000	0.202044	0.000000	0.000000	0.169489
30	readonly	0.202829	0.000000	0.000000	0.000000	0.000000	0.000000
31	readonly	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
32	readonly	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000

	difference	git	process	rename
0	0.000000	0.202994	0.000000	0.000000
1	0.000000	0.000000	0.000000	0.000000
2	0.000000	0.000000	0.000000	0.000000
3	0.000000	0.000000	0.350231	0.000000
4	0.000000	0.203342	0.000000	0.000000
5	0.220471	0.000000	0.000000	0.000000
6	0.000000	0.000000	0.000000	0.000000
7	0.000000	0.000000	0.000000	0.568902
8	0.000000	0.000000	0.000000	0.000000
9	0.000000	0.000000	0.000000	0.000000
10	0.000000	0.000000	0.000000	0.338969
11	0.000000	0.238205	0.000000	0.000000
12	0.000000	0.154251	0.000000	0.000000
13	0.000000	0.000000	0.000000	0.000000
14	0.000000	0.192758	0.000000	0.000000
15	0.000000	0.000000	0.389835	0.000000
16	0.000000	0.000000	0.000000	0.000000
17	0.000000	0.000000	0.000000	0.000000
18	0.000000	0.000000	0.000000	0.000000
19	0.000000	0.000000	0.000000	0.000000
20	0.000000	0.000000	0.000000	0.000000
21	0.000000	0.000000	0.000000	0.000000
22	0.000000	0.000000	0.000000	0.000000
23	0.000000	0.000000	0.000000	0.000000

24	0.000000	0.000000	0.000000	0.000000
25	0.000000	0.000000	0.187558	0.000000
26	0.491935	0.000000	0.000000	0.000000
27	0.287660	0.000000	0.000000	0.000000
28	0.000000	0.000000	0.000000	0.000000
29	0.000000	0.000000	0.000000	0.000000
30	0.000000	0.000000	0.000000	0.000000
31	0.000000	0.000000	0.000000	0.000000
32	0.000000	0.000000	0.000000	0.000000

\*\*\*\*\*

For Username ID TF/IDF table : pupeno

	usernameid	file	java	android	sql	git	way \
0	pupeno	0.000000	0.000000	0.000000	0.000000	0.000000	0.084849
1	pupeno	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
2	pupeno	0.000000	0.000000	0.000000	0.000000	0.000000	0.085361
3	pupeno	0.108337	0.000000	0.000000	0.000000	0.000000	0.000000
4	pupeno	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
5	pupeno	0.187244	0.000000	0.000000	0.277057	0.000000	0.109712
6	pupeno	0.116987	0.000000	0.000000	0.692403	0.000000	0.000000
7	pupeno	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
8	pupeno	0.000000	0.000000	0.130150	0.000000	0.000000	0.000000
9	pupeno	0.000000	0.000000	0.000000	0.105631	0.000000	0.000000
10	pupeno	0.000000	0.000000	0.275010	0.000000	0.000000	0.000000
11	pupeno	0.312392	0.000000	0.000000	0.000000	0.000000	0.122027
12	pupeno	0.000000	0.000000	0.352152	0.000000	0.000000	0.000000
13	pupeno	0.082427	0.366784	0.000000	0.000000	0.000000	0.000000
14	pupeno	0.000000	0.000000	0.000000	0.000000	0.000000	0.081616
15	pupeno	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
16	pupeno	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
17	pupeno	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
18	pupeno	0.000000	0.000000	0.000000	0.000000	0.143193	0.088019
19	pupeno	0.000000	0.531605	0.000000	0.000000	0.000000	0.000000
20	pupeno	0.371197	0.000000	0.000000	0.000000	0.000000	0.000000
21	pupeno	0.000000	0.071220	0.000000	0.000000	0.000000	0.050015
22	pupeno	0.000000	0.000000	0.000000	0.000000	0.000000	0.079078
23	pupeno	0.000000	0.000000	0.000000	0.000000	0.000000	0.140540
24	pupeno	0.000000	0.362108	0.000000	0.000000	0.000000	0.000000
25	pupeno	0.000000	0.000000	0.174881	0.000000	0.000000	0.000000
26	pupeno	0.656317	0.000000	0.000000	0.000000	0.417075	0.085457
27	pupeno	0.000000	0.000000	0.000000	0.000000	0.000000	0.026952
28	pupeno	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
29	pupeno	0.000000	0.364640	0.000000	0.000000	0.000000	0.000000
30	pupeno	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000

31	pupeno	0.000000	0.000000	0.000000	0.000000	0.000000	0.083149
32	pupeno	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
33	pupeno	0.000000	0.000000	0.000000	0.000000	0.728914	0.000000
34	pupeno	0.000000	0.000000	0.151689	0.000000	0.000000	0.000000
35	pupeno	0.000000	0.000000	0.337085	0.000000	0.000000	0.125140
36	pupeno	0.000000	0.000000	0.000000	0.219137	0.000000	0.000000

	like	application	data	dump
0	0.000000	0.000000	0.000000	0.000000
1	0.021477	0.029489	0.000000	0.000000
2	0.265579	0.000000	0.000000	0.000000
3	0.000000	0.000000	0.123813	0.000000
4	0.000000	0.000000	0.000000	0.000000
5	0.000000	0.000000	0.093622	0.000000
6	0.094784	0.000000	0.116987	0.323682
7	0.089201	0.000000	0.000000	0.000000
8	0.000000	0.000000	0.000000	0.000000
9	0.072300	0.000000	0.267708	0.617252
10	0.000000	0.436139	0.261367	0.000000
11	0.126552	0.000000	0.000000	0.000000
12	0.000000	0.000000	0.000000	0.000000
13	0.066783	0.000000	0.000000	0.000000
14	0.000000	0.000000	0.000000	0.000000
15	0.000000	0.026204	0.000000	0.000000
16	0.000000	0.000000	0.000000	0.000000
17	0.000000	0.000000	0.095551	0.000000
18	0.091283	0.000000	0.000000	0.000000
19	0.064529	0.177202	0.000000	0.000000
20	0.000000	0.000000	0.000000	0.000000
21	0.000000	0.000000	0.000000	0.000000
22	0.164020	0.000000	0.000000	0.000000
23	0.000000	0.000000	0.000000	0.000000
24	0.000000	0.000000	0.000000	0.000000
25	0.000000	0.000000	0.000000	0.000000
26	0.000000	0.000000	0.000000	0.000000
27	0.055903	0.000000	0.000000	0.000000
28	0.000000	0.000000	0.000000	0.000000
29	0.000000	0.000000	0.000000	0.000000
30	0.000000	0.000000	0.000000	0.000000
31	0.000000	0.000000	0.000000	0.000000
32	0.032758	0.000000	0.040432	0.000000
33	0.000000	0.000000	0.000000	0.000000
34	0.000000	0.000000	0.000000	0.000000
35	0.000000	0.356390	0.000000	0.000000
36	0.000000	0.000000	0.000000	0.000000

\*\*\*\*\*



For Username ID TF/IDF table : e-satis

	usernameid	python	git	head	like	does	using \
0	e-satis	0.077636	0.000000	0.000000	0.131321	0.155273	0.000000
1	e-satis	0.000000	0.000000	0.000000	0.000000	0.000000	0.236308
2	e-satis	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
3	e-satis	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
4	e-satis	0.000000	0.000000	0.000000	0.101237	0.119702	0.000000
5	e-satis	0.000000	0.000000	0.000000	0.000000	0.227740	0.000000
6	e-satis	0.000000	0.070489	0.000000	0.059616	0.000000	0.000000
7	e-satis	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
8	e-satis	0.000000	0.000000	0.000000	0.034854	0.000000	0.164845
9	e-satis	0.000000	0.075851	0.000000	0.000000	0.000000	0.151701
10	e-satis	0.000000	0.421761	0.349226	0.000000	0.140587	0.000000
11	e-satis	0.438262	0.000000	0.000000	0.000000	0.000000	0.000000
12	e-satis	0.080333	0.000000	0.000000	0.203822	0.000000	0.080333
13	e-satis	0.000000	0.000000	0.000000	0.000000	0.000000	0.308775
14	e-satis	0.000000	0.000000	0.000000	0.169226	0.000000	0.000000
15	e-satis	0.000000	0.000000	0.000000	0.155518	0.000000	0.000000
16	e-satis	0.106392	0.000000	0.000000	0.224950	0.000000	0.000000
17	e-satis	0.000000	0.000000	0.134811	0.000000	0.000000	0.000000
18	e-satis	0.525068	0.000000	0.000000	0.000000	0.000000	0.000000
19	e-satis	0.000000	0.000000	0.000000	0.000000	0.384412	0.000000
20	e-satis	0.000000	0.188113	0.000000	0.000000	0.062704	0.000000
21	e-satis	0.000000	0.000000	0.000000	0.000000	0.000000	0.118825
22	e-satis	0.000000	0.188162	0.701109	0.000000	0.000000	0.000000
23	e-satis	0.109937	0.000000	0.000000	0.092978	0.000000	0.000000
24	e-satis	0.000000	0.338695	0.000000	0.000000	0.000000	0.000000

	use	gt	way	know
0	0.000000	0.000000	0.000000	0.069198
1	0.000000	0.000000	0.000000	0.000000
2	0.000000	0.000000	0.064273	0.000000
3	0.000000	0.000000	0.000000	0.000000
4	0.000000	0.000000	0.000000	0.000000
5	0.113870	0.000000	0.000000	0.000000
6	0.000000	0.000000	0.000000	0.062828
7	0.000000	0.000000	0.000000	0.000000
8	0.123634	0.000000	0.116494	0.146928
9	0.000000	0.000000	0.000000	0.135212
10	0.140587	0.000000	0.000000	0.000000
11	0.000000	0.000000	0.275301	0.000000
12	0.000000	0.000000	0.000000	0.143203
13	0.000000	0.000000	0.000000	0.000000
14	0.200092	0.000000	0.000000	0.000000

15	0.000000	0.000000	0.173264	0.081948
16	0.000000	0.654206	0.100248	0.047414
17	0.000000	0.296631	0.000000	0.000000
18	0.262534	0.000000	0.000000	0.000000
19	0.000000	0.000000	0.144885	0.205578
20	0.000000	0.000000	0.059083	0.000000
21	0.118825	0.000000	0.000000	0.000000
22	0.000000	0.000000	0.000000	0.000000
23	0.000000	0.000000	0.000000	0.000000
24	0.000000	0.000000	0.000000	0.000000

\*\*\*\*\*

For Username ID TF/IDF table : Ali

	usernameid	gt	array	javascript	using	php	lt \
0	Ali	0.225908	0.000000	0.000000	0.168649	0.000000	0.243885
1	Ali	0.089387	0.210973	0.245229	0.000000	0.000000	0.000000
2	Ali	0.000000	0.000000	0.349359	0.000000	0.000000	0.000000
3	Ali	0.000000	0.000000	0.000000	0.174570	0.223285	0.000000
4	Ali	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
..	...	...	...	...	...	...	...
74	Ali	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
75	Ali	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
76	Ali	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
77	Ali	0.022841	0.000000	0.000000	0.000000	0.000000	0.024659
78	Ali	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000

	id	jquery	key	file
0	0.000000	0.258347	0.000000	0.0
1	0.289498	0.102222	0.339392	0.0
2	0.000000	0.000000	0.000000	0.0
3	0.000000	0.000000	0.000000	0.0
4	0.000000	0.000000	0.000000	0.0
..	...	...	...	...
74	0.000000	0.000000	0.000000	0.0
75	0.000000	0.000000	0.000000	0.0
76	0.000000	0.000000	0.000000	0.0
77	0.000000	0.000000	0.000000	0.0
78	0.000000	0.000000	0.000000	0.0

[79 rows x 11 columns]

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For Username ID TF/IDF table : Joan Venge

	usernameid	python	string	like	list	gt	class \
0	Joan Venge	0.193545	0.000000	0.000000	0.132596	0.000000	0.000000
1	Joan Venge	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
2	Joan Venge	0.000000	0.000000	0.051889	0.000000	0.000000	0.000000
3	Joan Venge	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
4	Joan Venge	0.000000	0.000000	0.000000	0.000000	0.000000	0.358144
..	...	...	...	...	...	...	...
61	Joan Venge	0.000000	0.000000	0.153097	0.000000	0.000000	0.128018
62	Joan Venge	0.000000	0.000000	0.000000	0.169950	0.000000	0.000000
63	Joan Venge	0.344646	0.000000	0.000000	0.000000	0.000000	0.000000
64	Joan Venge	0.000000	0.000000	0.000000	0.100046	0.328351	0.000000
65	Joan Venge	0.000000	0.121922	0.079756	0.000000	0.000000	0.000000

	want	value	function	index
0	0.000000	0.0	0.0	0.000000
1	0.000000	0.0	0.0	0.000000
2	0.071552	0.0	0.0	0.28987
3	0.000000	0.0	0.0	0.000000
4	0.000000	0.0	0.0	0.000000
..	...	...	...	...
61	0.000000	0.0	0.0	0.000000
62	0.153303	0.0	0.0	0.20702
63	0.000000	0.0	0.0	0.000000
64	0.000000	0.0	0.0	0.000000
65	0.000000	0.0	0.0	0.000000

[66 rows x 11 columns]

\*\*\*\*\*

For Username ID TF/IDF table : flybywire

	usernameid	file	python	want	vs	use	java \
0	flybywire	0.000000	0.124444	0.000000	0.000000	0.000000	0.000000
1	flybywire	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
2	flybywire	0.099270	0.111844	0.000000	0.000000	0.000000	0.000000
3	flybywire	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
4	flybywire	0.000000	0.119751	0.000000	0.000000	0.000000	0.000000
5	flybywire	0.000000	0.000000	0.000000	0.228055	0.000000	0.000000
6	flybywire	0.000000	0.000000	0.116217	0.000000	0.000000	0.000000
7	flybywire	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
8	flybywire	0.000000	0.000000	0.123087	0.000000	0.000000	0.000000

9	flybywire	0.000000	0.000000	0.112601	0.000000	0.000000	0.000000
10	flybywire	0.175813	0.000000	0.082066	0.000000	0.000000	0.000000
11	flybywire	0.000000	0.000000	0.000000	0.000000	0.000000	0.657184
12	flybywire	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
13	flybywire	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
14	flybywire	0.401779	0.000000	0.000000	0.000000	0.158003	0.000000
15	flybywire	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
16	flybywire	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
17	flybywire	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
18	flybywire	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
19	flybywire	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
20	flybywire	0.236095	0.000000	0.110204	0.000000	0.000000	0.000000
21	flybywire	0.000000	0.146583	0.000000	0.153493	0.306986	0.000000
22	flybywire	0.000000	0.321788	0.000000	0.000000	0.000000	0.000000
23	flybywire	0.076939	0.000000	0.287305	0.000000	0.000000	0.000000
24	flybywire	0.241039	0.000000	0.000000	0.000000	0.000000	0.000000
25	flybywire	0.071814	0.000000	0.067043	0.000000	0.000000	0.000000
26	flybywire	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
27	flybywire	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
28	flybywire	0.171867	0.000000	0.160447	0.000000	0.000000	0.000000
29	flybywire	0.000000	0.000000	0.086403	0.000000	0.054596	0.000000
30	flybywire	0.000000	0.000000	0.000000	0.246946	0.493891	0.000000
31	flybywire	0.000000	0.000000	0.000000	0.255143	0.000000	0.000000
32	flybywire	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
33	flybywire	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
34	flybywire	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
35	flybywire	0.315679	0.000000	0.098234	0.000000	0.000000	0.000000
36	flybywire	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
37	flybywire	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
38	flybywire	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
39	flybywire	0.000000	0.000000	0.000000	0.000000	0.000000	0.142146
40	flybywire	0.000000	0.000000	0.000000	0.271833	0.135916	0.484679
41	flybywire	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
42	flybywire	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
43	flybywire	0.000000	0.487702	0.000000	0.000000	0.000000	0.000000
44	flybywire	0.000000	0.330355	0.000000	0.000000	0.000000	0.000000
45	flybywire	0.000000	0.000000	0.000000	0.217766	0.000000	0.000000
46	flybywire	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
47	flybywire	0.297907	0.000000	0.139056	0.000000	0.175732	0.000000
48	flybywire	0.000000	0.000000	0.069671	0.000000	0.000000	0.000000

	gt	standard	instance	output
0	0.000000	0.000000	0.000000	0.000000
1	0.000000	0.000000	0.000000	0.000000
2	0.000000	0.000000	0.000000	0.000000
3	0.000000	0.000000	0.000000	0.000000
4	0.239501	0.000000	0.000000	0.000000
5	0.000000	0.000000	0.000000	0.000000

6	0.280514	0.000000	0.000000	0.000000
7	0.000000	0.000000	0.000000	0.000000
8	0.000000	0.000000	0.000000	0.000000
9	0.000000	0.000000	0.000000	0.000000
10	0.198083	0.000000	0.000000	0.000000
11	0.000000	0.000000	0.000000	0.000000
12	0.000000	0.000000	0.000000	0.000000
13	0.000000	0.000000	0.864911	0.000000
14	0.301781	0.500837	0.000000	0.293212
15	0.000000	0.000000	0.000000	0.000000
16	0.000000	0.217125	0.000000	0.000000
17	0.000000	0.000000	0.000000	0.000000
18	0.000000	0.000000	0.000000	0.000000
19	0.000000	0.000000	0.000000	0.000000
20	0.000000	0.000000	0.000000	0.000000
21	0.000000	0.000000	0.000000	0.000000
22	0.000000	0.000000	0.000000	0.000000
23	0.000000	0.000000	0.000000	0.000000
24	0.000000	0.000000	0.000000	0.000000
25	0.000000	0.000000	0.000000	0.283009
26	0.000000	0.000000	0.000000	0.000000
27	0.000000	0.000000	0.000000	0.000000
28	0.000000	0.482042	0.000000	0.225767
29	0.052138	0.000000	0.000000	0.364736
30	0.000000	0.000000	0.000000	0.000000
31	0.000000	0.000000	0.000000	0.000000
32	0.000000	0.000000	0.317777	0.000000
33	0.000000	0.000000	0.000000	0.000000
34	0.000000	0.000000	0.000000	0.000000
35	0.000000	0.000000	0.000000	0.000000
36	0.000000	0.000000	0.000000	0.000000
37	0.000000	0.000000	0.000000	0.000000
38	0.000000	0.000000	0.000000	0.000000
39	0.114201	0.000000	0.000000	0.000000
40	0.000000	0.000000	0.000000	0.000000
41	0.000000	0.000000	0.000000	0.000000
42	0.000000	0.000000	0.000000	0.000000
43	0.000000	0.000000	0.000000	0.000000
44	0.000000	0.000000	0.000000	0.000000
45	0.000000	0.000000	0.000000	0.000000
46	0.000000	0.000000	0.000000	0.000000
47	0.000000	0.000000	0.000000	0.000000
48	0.084083	0.000000	0.000000	0.000000

\*\*\*\*\*

For Username ID TF/IDF table : GManNickG

	usernameid	lt	copy	data	int	idiom	gt \
0	GManNickG	0.000000	0.523691	0.000000	0.000000	0.418953	0.000000
1	GManNickG	0.126037	0.000000	0.000000	0.252073	0.000000	0.252073
2	GManNickG	0.431818	0.000000	0.51101	0.172727	0.000000	0.129546

  

	quot	swap	arraysize	array
0	0.000000	0.314215	0.000000	0.079656
1	0.252073	0.000000	0.000000	0.000000
2	0.086364	0.000000	0.283895	0.194318

\*\*\*\*\*

For Username ID TF/IDF table : Hamza Yerlikaya

	usernameid	file	timer	java	new	table \
0	Hamza Yerlikaya	0.470020	0.000000	0.000000	0.000000	0.000000
1	Hamza Yerlikaya	0.066477	0.000000	0.053078	0.379920	0.000000
2	Hamza Yerlikaya	0.356757	0.000000	0.000000	0.000000	0.000000
3	Hamza Yerlikaya	0.000000	0.000000	0.000000	0.000000	0.000000
4	Hamza Yerlikaya	0.000000	0.000000	0.156744	0.000000	0.000000
5	Hamza Yerlikaya	0.000000	0.000000	0.026395	0.000000	0.533399
6	Hamza Yerlikaya	0.000000	0.744404	0.073674	0.210937	0.000000
7	Hamza Yerlikaya	0.000000	0.000000	0.000000	0.000000	0.000000
8	Hamza Yerlikaya	0.000000	0.000000	0.284629	0.000000	0.000000
9	Hamza Yerlikaya	0.000000	0.000000	0.000000	0.000000	0.000000

	bits	byte	iterate	application	files
0	0.000000	0.000000	0.000000	0.268619	0.104470
1	0.000000	0.000000	0.000000	0.000000	0.000000
2	0.000000	0.000000	0.000000	0.000000	0.211455
3	0.000000	0.000000	0.000000	0.000000	0.084239
4	0.527915	0.527915	0.527915	0.000000	0.000000
5	0.000000	0.000000	0.000000	0.000000	0.000000
6	0.000000	0.000000	0.000000	0.000000	0.000000
7	0.000000	0.000000	0.000000	0.254880	0.099127
8	0.000000	0.000000	0.000000	0.000000	0.000000
9	0.000000	0.000000	0.000000	0.000000	0.000000

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For Username ID TF/IDF table : Matthew Rankin

	usernameid	install	pip	python	lt	gt	branch \
0	Matthew Rankin	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
1	Matthew Rankin	0.000000	0.000000	0.358589	0.000000	0.000000	0.000000
2	Matthew Rankin	0.000000	0.000000	0.000000	0.000000	0.043561	0.571753
3	Matthew Rankin	0.427251	0.284834	0.000000	0.000000	0.000000	0.000000
4	Matthew Rankin	0.000000	0.000000	0.000000	0.650278	0.544984	0.000000
5	Matthew Rankin	0.235094	0.211585	0.094038	0.000000	0.000000	0.000000
6	Matthew Rankin	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
7	Matthew Rankin	0.349045	0.319958	0.319958	0.000000	0.000000	0.000000

	flask	version	debugger	started
0	0.555725	0.555725	0.000000	0.000000
1	0.000000	0.000000	0.495842	0.495842
2	0.000000	0.000000	0.000000	0.000000
3	0.000000	0.000000	0.000000	0.000000
4	0.000000	0.000000	0.000000	0.000000
5	0.000000	0.000000	0.000000	0.000000
6	0.000000	0.000000	0.000000	0.000000
7	0.000000	0.000000	0.000000	0.000000

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For Username ID TF/IDF table : TIMEX

	usernameid	python	want	user	string	gt	dictionary \
0	TIMEX	0.000000	0.000000	0.0	0.000000	0.000000	0.0
1	TIMEX	0.000000	0.000000	0.0	0.000000	0.000000	0.0
2	TIMEX	0.000000	0.130509	0.0	0.000000	0.179279	0.0
3	TIMEX	0.000000	0.000000	0.0	0.000000	0.000000	0.0
4	TIMEX	0.000000	0.000000	0.0	0.000000	0.000000	0.0
..	...	...	...	...	...	...	...
110	TIMEX	0.113904	0.000000	0.0	0.000000	0.000000	0.0
111	TIMEX	0.000000	0.031423	0.0	0.090197	0.000000	0.0
112	TIMEX	0.000000	0.000000	0.0	0.000000	0.000000	0.0
113	TIMEX	0.000000	0.000000	0.0	0.000000	0.423683	0.0
114	TIMEX	0.000000	0.000000	0.0	0.000000	0.000000	0.0

	lt	use	javascript	return
0	0.000000	0.000000	0.000000	0.000000
1	0.000000	0.000000	0.000000	0.000000
2	0.187309	0.000000	0.000000	0.000000
3	0.000000	0.000000	0.000000	0.000000
4	0.000000	0.000000	0.17604	0.000000
..	...	...	...	...
110	0.000000	0.000000	0.000000	0.000000
111	0.000000	0.000000	0.000000	0.048591

112	0.000000	0.000000	0.000000	0.000000
113	0.000000	0.076049	0.000000	0.000000
114	0.000000	0.000000	0.000000	0.000000

[115 rows x 11 columns]

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