Untitled

October 14, 2024

[1]:
```
%load_ext sql
```

[3]:
```
import sqlite3 as sq
```

[4]:
```
conn = sq.connect('sqlmagic.db')
cursor = conn.cursor()
```

[5]:
```
%sql sqlite:///sqlmagic.db
```

[5]:
```
'Connected: @sqlmagic.db'
```

[9]:
```
%%sql
create table if not exists student_test_scores (country varchar(20),
                                    first varchar(20),
                                    last varchar(20),
                                   test_score int);

insert into student_test_scores values ('india', 'varna', 'karthik', 100),
    ('america', 'sam', 'george', 99),
    ('canada', 'kurst', 'dunst', 300);
```

```
 * sqlite:///sqlmagic.db
Done.
3 rows affected.
```

[9]:
```
[]
```

[12]:
```
%sql select * from student_test_scores where country='india';
# %sql truncate table student_test_scores;
```

```
 * sqlite:///sqlmagic.db
Done.
```

[12]:
```
[('india', 'varna', 'karthik', 100), ('india', 'varna', 'karthik', 100)]
```

[18]:
```
test_score_distribution = %sql select test_score, count(*) as␣
 ↪score_distribution from student_test_scores group by test_score;
```

```
 * sqlite:///sqlmagic.db
Done.
```

[19]:
```
type(test_score_distribution)
```

[19]:
```
sql.run.ResultSet
```

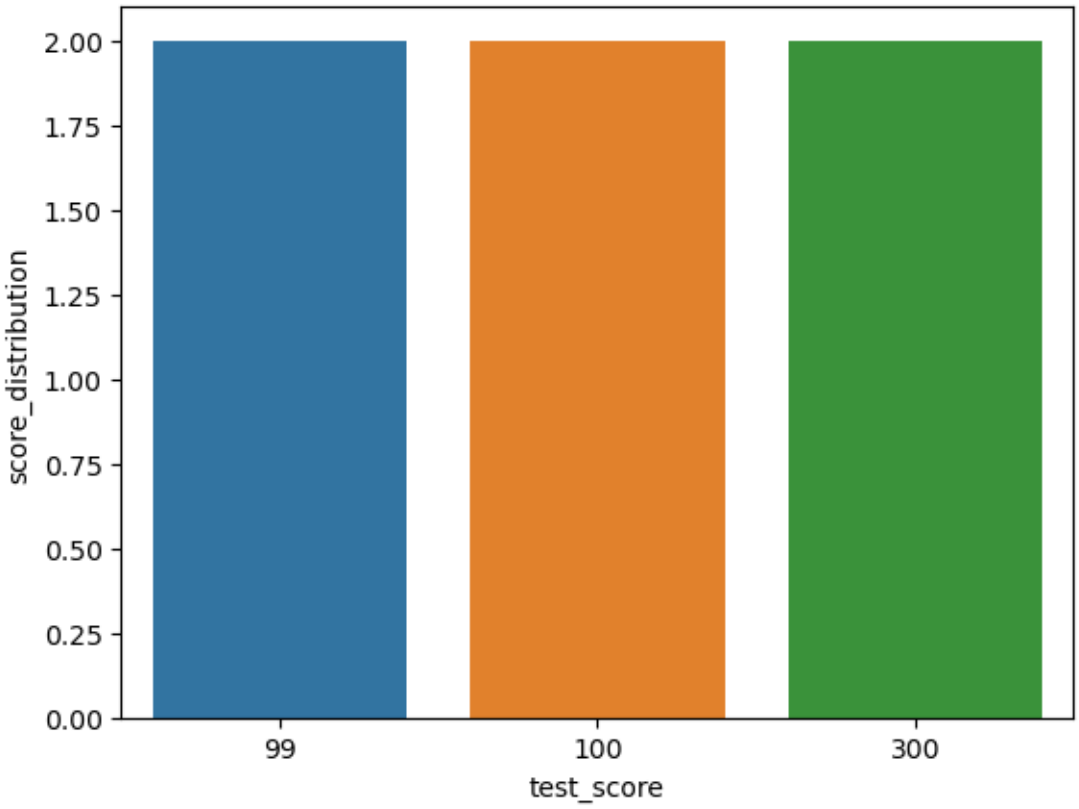
[20]:
```
import pandas as pd
df = test_score_distribution.DataFrame()
df
```

[20]:

	test_score	score_distribution
0	99	2
1	100	2
2	300	2

[22]:
```
%matplotlib inline

import seaborn as sns
plot = sns.barplot(x='test_score', y='score_distribution', data=df)
```



[ ]:

[ ]: