

```
1 import pandas as pd

1 d = {'sales': [100000, 222000, 1000000, 522000, 111111, 222222, 111111, 20000, 75000, 90000, 1000000, 10000],
2      'city': ['Tampa', 'Tampa', 'Orlando', 'Jacksonville', 'Miami', 'Jacksonville', 'Miami', 'Miami', 'Orlando', 'Orlando', 'Orlando', 'Orlando'],
3      'size': ['Small', 'Medium', 'Large', 'Large', 'Small', 'Medium', 'Large', 'Small', 'Medium', 'Medium', 'Medium', 'Small',]}

1 df = pd.DataFrame(data = d)

1 df.head()
```

	sales	city	size
0	100000	Tampa	Small
1	222000	Tampa	Medium
2	1000000	Orlando	Large
3	522000	Jacksonville	Large
4	111111	Miami	Small

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```
1 df['city'].unique()

array(['Tampa', 'Orlando', 'Jacksonville', 'Miami'], dtype=object)

1 from sklearn.preprocessing import OneHotEncoder

1 ohe = OneHotEncoder(handle_unknown = 'ignore', sparse_output=False).set_output(transform = 'pandas')

1 oheTransform = ohe.fit_transform(df[['city']])

1 oheTransform
```



	city_Jacksonville	city_Miami	city_Orlando	city_Tampa
0	0.0	0.0	0.0	1.0
1	0.0	0.0	0.0	1.0
2	0.0	0.0	1.0	0.0
3	1.0	0.0	0.0	0.0
4	0.0	1.0	0.0	0.0
5	1.0	0.0	0.0	0.0
6	0.0	1.0	0.0	0.0
7	0.0	1.0	0.0	0.0
8	0.0	0.0	1.0	0.0
9	0.0	0.0	1.0	0.0
10	0.0	0.0	1.0	0.0
11	0.0	0.0	1.0	0.0

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```
1 df = pd.concat([df, oheTransform], axis = 1)

1 df.drop(columns = ['city'], inplace = True)

1 df
```

	sales	size	city_Jacksonville	city_Miami	city_Orlando	city_Tampa	
0	100000	Small	0.0	0.0	0.0	1.0	
1	222000	Medium	0.0	0.0	0.0	1.0	
2	1000000	Large	0.0	0.0	1.0	0.0	
3	522000	Large	1.0	0.0	0.0	0.0	
4	111111	Small	0.0	1.0	0.0	0.0	
5	222222	Medium	1.0	0.0	0.0	0.0	
6	1111111	Large	0.0	1.0	0.0	0.0	
7	20000	Small	0.0	1.0	0.0	0.0	
8	75000	Medium	0.0	0.0	1.0	0.0	
9	90000	Medium	0.0	0.0	1.0	0.0	
10	1000000	Medium	0.0	0.0	1.0	0.0	
11	10000	Small	0.0	0.0	1.0	0.0	

Next steps:

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