

```
In [60]: data=pd.read_csv("Project1.csv")
```

```
In [61]: data
```

```
Out[61]:
```

	Flight	Status	Los Angeles	Phoenix	San Diego	San Francisco	Seattle
0	Alaska	on time	497	221	212	503	1841
1	NaN	delayed	62	12	20	102	305

```
In [64]: data = data.set_index(['Flight','Status'])
```

```
In [69]: data.xs('delayed',level='Status')
```

```
Out[69]:
```

	Los Angeles	Phoenix	San Diego	San Francisco	Seattle
Flight					
Alaska	62	12	20	102	305
AM West	117	415	65	129	61

```
In [71]: data
```

```
Out[71]:
```

	Los Angeles	Phoenix	San Diego	San Francisco	Seattle
Flight Status					

```
In [77]: new_data = data.xs('delayed',level='Status').T
```

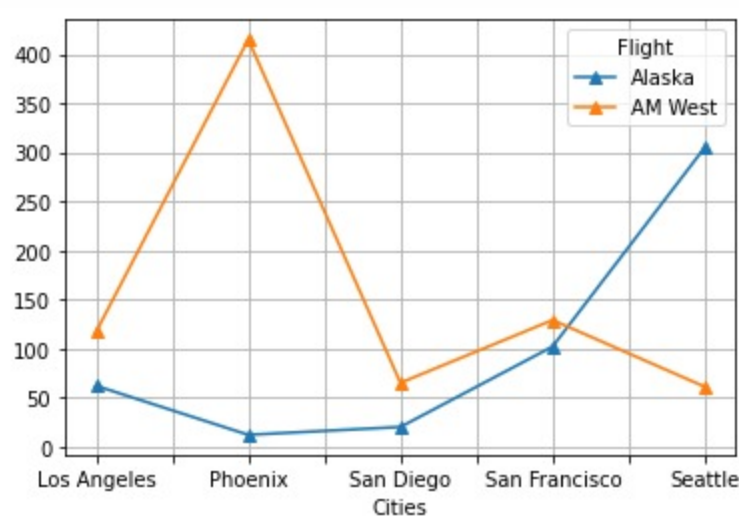
```
In [89]: new_data
```

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Out[89]:
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	Flight	Alaska	AM West	Variance % in Delay
Los Angeles		62	117	47.008547
Phoenix		12	415	97.108434
San Diego		20	65	69.230769
San Francisco		102	129	20.930233
Seattle		305	61	-400.000000

```
In [88]: new_data['Variance % in Delay']=((new_data.loc[:, 'AM West'] - new_data.loc[:, 'Alaska'])/new_data.loc[:, 'AM West'])*100
```

```
Out[121]: Flight
Alaska      100.200000
AM West     157.400000
Variance % in Delay  -33.144403
Total Variance      57.200000
```



```
In [ ]:
```