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In [1]: import pandas as pd
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In [2]: names = ["Jane", "June", "Jenny", "Jacky", "Johnny", "Jack", "Jeremy"]  
cars = ["Ford", "Fiat", "Ford", "Ford", "BMW", "Mercedes", "Honda"]  
colors = ["black", "blue", "white", "white", "white", "white", "blue"]
```

```
In [3]: df = pd.DataFrame(data = {"Names": names, "Cars": cars, "Colours": colors})  
df = df[["Names", "Cars", "Colours"]]
```

```
In [4]: df
```

```
Out[4]:
```

	Names	Cars	Colours
0	Jane	Ford	black
1	June	Fiat	blue
2	Jenny	Ford	white
3	Jacky	Ford	white
4	Johnny	BMW	white
5	Jack	Mercedes	white
6	Jeremy	Honda	blue

```
In [5]: summary = df.groupby(by = ["Cars", "Colours"])["Names"].count()
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In [11]: summary
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```
Out[11]: Cars      Colours
BMW        white      1
Fiat       blue       1
Ford       black      1
          white      2
Honda      blue       1
Mercedes   white      1
Name: Names, dtype: int64
```

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In [13]: summary.loc[(['BMW', 'white'], ('Ford', 'white'))]
```

```
Out[13]: Cars  Colours
BMW   white      1
Ford  white      2
Name: Names, dtype: int64
```

```
In [36]: summary.reset_index(level=["Cars", "Colours"])
```

```
Out[36]:
```

	Cars	Colours	Names
0	BMW	white	1
1	Fiat	blue	1
2	Ford	black	1
3	Ford	white	2
4	Honda	blue	1
5	Mercedes	white	1