```
# 카테고리 별 총 주문금액 (* 내림차순)
group_price = df_model.groupby('category')['price'].sum().sort_values(ascending=False)
group_count = df_model['category'].value_counts()

# 카테고리 별 (총 주문금액, 총 주문량) : group_price + group_count

series_sum = [group_price, group_count]
group_merged = pd.concat(series_sum, axis=1)
group_merged
```

	price	category
health_beauty	1297490.77	9975
watches_gifts	1253143.30	6201
bed_bath_table	1092551.02	11823
sports_leisure	1023996.34	8945
computers_accessories	942277.57	8082
...	...	...
flowers	1110.04	33
home_comfort_2	773.17	31
cds_dvds_musicals	730.00	14
fashion_childrens_clothes	569.85	8
security_and_services	283.29	2

71 rows × 2 columns

```
group_merged.rename({'category':'count'}, axis=1, inplace=True)
```

	price	count
health_beauty	1297490.77	9975
watches_gifts	1253143.30	6201
bed_bath_table	1092551.02	11823
sports_leisure	1023996.34	8945
computers_accessories	942277.57	8082
...	...	...
flowers	1110.04	33
home_comfort_2	773.17	31
cds_dvds_musicals	730.00	14
fashion_childrens_clothes	569.85	8
security_and_services	283.29	2

```
# 카테고리 별 (평균 주문금액) :  (price / count)

group_merged['avg_price'] = ₩
group_merged.apply(lambda row: round(row['price'] / row['count'], 1), axis=1)
```

	price	count	avg_price
health_beauty	1297490.77	9975	130.1
watches_gifts	1253143.30	6201	202.1
bed_bath_table	1092551.02	11823	92.4
sports_leisure	1023996.34	8945	114.5
computers_accessories	942277.57	8082	116.6
...	...	...	...
flowers	1110.04	33	33.6
home_comfort_2	773.17	31	24.9
cds_dvds_musicals	730.00	14	52.1
fashion_childrens_clothes	569.85	8	71.2
security_and_services	283.29	2	141.6

71 rows × 3 columns

```
# 조건에 맞는 카테고리 추출 : (평균 단가 > 100 & 구매 수량 > 1000)
cut_price = 100    # 평균 단가 (avg_price)
cut_count = 1000   # 구매 수량 (count)

group_merged[(group_merged['avg_price']>cut_price) & (group_merged['count']>cut_count)]
```

	price	count	avg_price
health_beauty	1297490.77	9975	130.1
watches_gifts	1253143.30	6201	202.1
sports_leisure	1023996.34	8945	114.5
computers_accessories	942277.57	8082	116.6
cool_stuff	662309.49	3987	166.1
auto	616752.51	4379	140.8
garden_tools	518217.54	4574	113.3
toys	500295.09	4273	117.1
baby	434479.61	3196	135.9
perfumery	412754.81	3560	115.9
office_furniture	286158.96	1778	160.9
pet_shop	222932.30	2028	109.9
consoles_games	166114.63	1191	139.5
luggage_accessories	148420.93	1163	127.6

```
fig, ax = plt.subplots()
fig.set_size_inches(8, 5)

sns.scatterplot(data=group_merged, y="count", x="price")
plt.show()
```