

What percent of sales occurred at each store type?

The screenshot shows a web browser window displaying a DataCamp exercise. The exercise title is "What percent of sales occurred at each store type?". The instructions state that while `.groupby()` is useful, it's possible to calculate grouped summary statistics without it. The task is to calculate the total sales made at each store type (A, B, and C) without using `.groupby()`, and then use these numbers to see what proportion of Walmart's total sales were made at each type. The instructions also mention that `sales` is available and `pandas` is imported as `pd`.

The code editor shows the following solution:

```
1 # Calc total weekly sales
2 sales_all = sales["weekly_sales"].sum()
3
4 # Subset for type A stores, calc total weekly sales
5 sales_A = sales[sales["type"] == "A"]["weekly_sales"].sum()
6
7 # Subset for type B stores, calc total weekly sales
8 sales_B = sales[sales["type"] == "B"]["weekly_sales"].sum()
9
10 # Subset for type C stores, calc total weekly sales
11 sales_C = sales[sales["type"] == "C"]["weekly_sales"].sum()
12
13 # Get proportion for each type
14 sales_propn_by_type = [sales_A, sales_B, sales_C] / sales_all
15 print(sales_propn_by_type)
```

The Python Shell shows the following output:

```
In [1]:
```

While `.groupby()` is useful, you can calculate grouped summary statistics without it.

Walmart distinguishes three types of stores: 'supercenters,' 'discount stores,' and 'neighborhood markets,' encoded in this dataset as type 'A,' 'B,' and 'C.' In this exercise, you'll calculate the total sales made at each store type, without using `.groupby()`. You can then use these numbers to see what proportion of Walmart's total sales were made at each type.

`sales` is available and `pandas` is imported as `pd`.

Final Corrected Answer

```
# Calc total weekly sales
sales_all = sales["weekly_sales"].sum()
```

```
# Subset for type A stores, calc total weekly sales
sales_A = sales[sales["type"] == "A"]["weekly_sales"].sum()
```

```
# Subset for type B stores, calc total weekly sales
sales_B = sales[sales["type"] == "B"]["weekly_sales"].sum()
```

```
# Subset for type C stores, calc total weekly sales
sales_C = sales[sales["type"] == "C"]["weekly_sales"].sum()
```

```
# Get proportion for each type
sales_propn_by_type = [sales_A, sales_B, sales_C] / sales_all
print(sales_propn_by_type)
```