Pandas Project : Petal Power Inventory

You're the lead data analyst for a chain of gardening stores called Petal Power. Help them analyze their inventory!

Tasks

Answer Customer Emails

1.
Data for all of the locations of Petal Power is in the file `inventory.csv`. Load the data into a DataFrame called `inventory`.
2.
Inspect the first 10 rows of `inventory`.
3.
The first 10 rows represent data from your Staten Island location. Select these rows and save them to `staten_island`.
4.
A customer just emailed you asking what products are sold at your Staten Island location. Select the column `product_description` from `staten_island` and save it to the variable `product_request`.
5.
Another customer emails to ask what types of seeds are sold at the Brooklyn location.

Select all rows where `location` is equal to `Brooklyn` and `product_type` is equal to `seeds` and save them to the variable `seed_request`.

Inventory

6.
Add a column to `inventory` called `in_stock` which is `True` if `quantity` is greater than 0 and `False` if `quantity` equals 0.
7.

Petal Power wants to know how valuable their current inventory is.

Create a column called `total_value` that is equal to `price` multiplied by `quantity`.

8.

The Marketing department wants a complete description of each product for their catalog.

The following lambda function combines `product_type` and `product_description` into a single string:

```
combine_lambda = lambda row: \
    '{} - {}'.format(row.product_type,
                     row.product_description)
```

9.

Using `combine_lambda`, create a new column in `inventory` called `full_description` that has the complete description of each product.