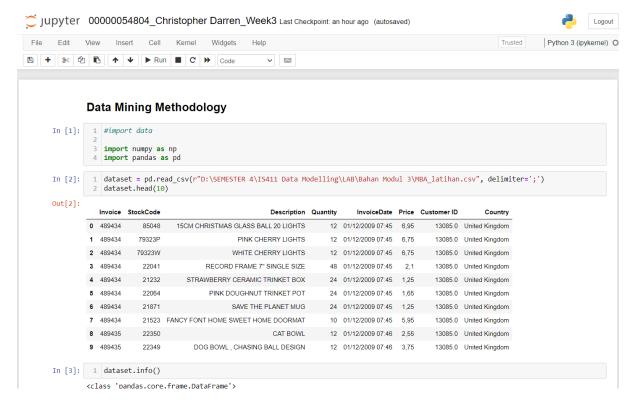
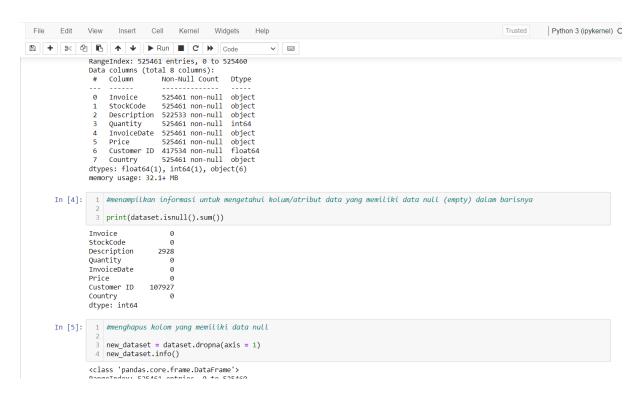
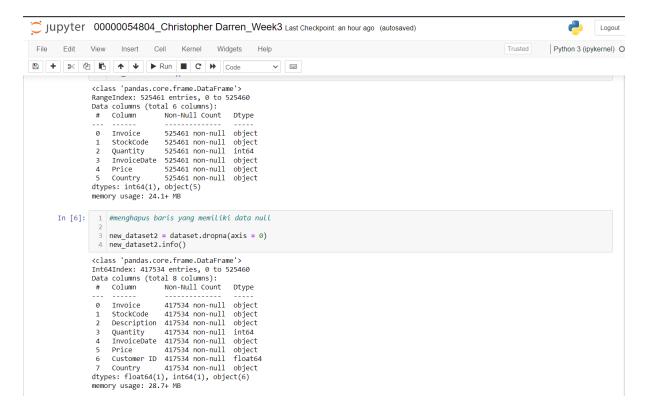
Tugas LAB WEEK 3-ASYNCHRON Christopher Darren



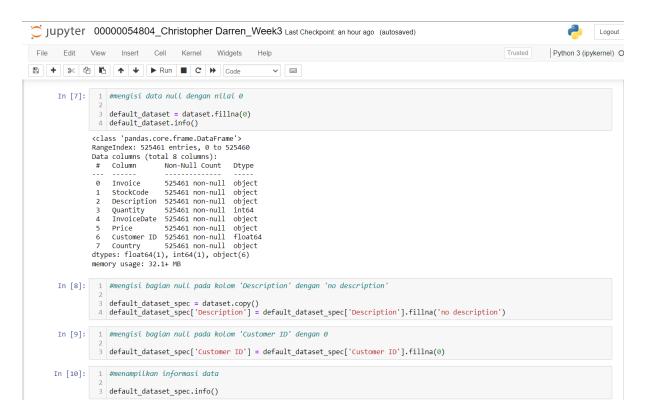
Gambar 1.



Gambar 2.



Gambar 7.



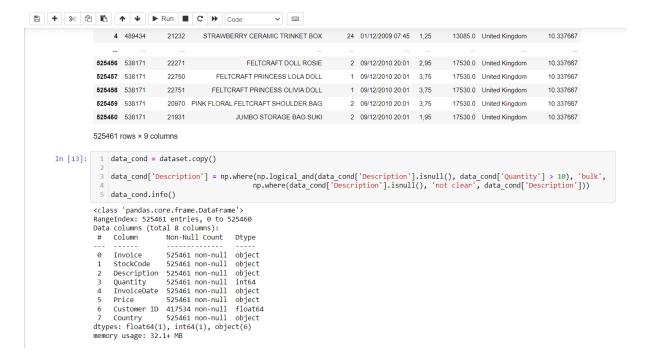
Gambar 8.

```
File Edit View Insert Cell Kernel Widgets Help
                                                                                                                                              Trusted Python 3 (ipykernel) O
v 🔤
                    <class 'pandas.core.frame.DataFrame'>
                    RangeIndex: 525461 entries, 0 to 525460
                    Data columns (total 8 columns):
# Column Non-Null Count Dtype
                                             525461 non-null object
                           StockCode
                                            525461 non-null object
                          Description 525461 non-null object
Quantity 525461 non-null int64
                          InvoiceDate 525461 non-null object
                          Price 525461 non-null object
Customer ID 525461 non-null float64
                    7 Country 525461 non-null object dtypes: float64(1), int64(1), object(6) memory usage: 32.1+ MB
       In [11]: 1 #membuat kolom baru bernama 'mean_dataset'
                      mean_dataset = dataset.copy()
mean_dataset['mean_quantity'] = np.nan
mean_dataset.info()
                     <class 'pandas.core.frame.DataFrame'
                    RangeIndex: 525461 entries, 0 to 525460
Data columns (total 9 columns):
# Column Non-Null Count Dty
                           Invoice
                                               525461 non-null object
                          StockCode
                                               525461 non-null object
522533 non-null object
525461 non-null int64
                          Description
Quantity
                          InvoiceDate
Price
Customer ID
                                              525461 non-null
525461 non-null
417534 non-null
                                                                     object
object
float64
                          Country 525461 non-mean quantity 0 non-null
                                                                     object
float64
                                               525461 non-null
```

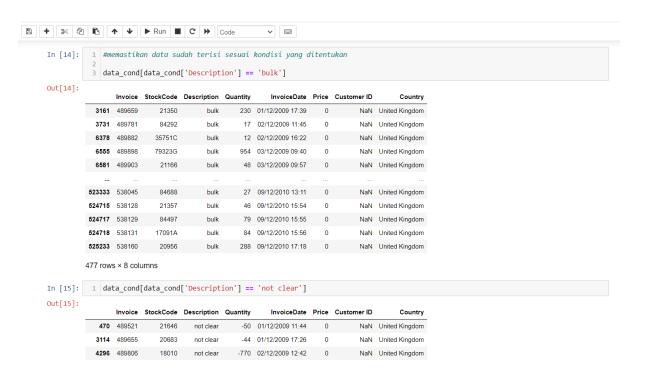
Gambar 9.

```
8 mean_quantity 0 non-null flo
dtypes: float64(2), int64(1), object(6)
memory usage: 36.1+ MB
In [12]: 1 #mengisi kolom 'mean_quantity' dengan nilai rata-rata (mean) dari kolom 'Quantity'
             mean_dataset['mean_quantity'] = mean_dataset['mean_quantity'].fillna(mean_dataset['Quantity'].mean())
             4 mean_dataset.info()
5 mean_dataset
            <class 'pandas.core.frame.DataFrame'>
           RangeIndex: 525461 entries, 0 to 525460
Data columns (total 9 columns):
            # Column
                                   Non-Null Count
                                                       Dtype
                 Invoice
                                    525461 non-null
                                                        object
                                   525461 non-null
522533 non-null
525461 non-null
                                                       object
object
                 StockCode
                 Description
                 Ouantity
                                                       int64
                 InvoiceDate
Price
                                   525461 non-null object
525461 non-null object
417534 non-null float64
                 Customer ID
           7 Country 525461 non-null object
8 mean_quantity 525461 non-null float64
dtypes: float64(2), int64(1), object(6)
memory usage: 36.1+ MB
Out[12]:
                                                                                              InvoiceDate Price Customer ID
                    Invoice StockCode
                                                                     Description Quantity
                                                                                                                                      Country mean_quantity
             0 489434 85048 15CM CHRISTMAS GLASS BALL 20 LIGHTS 12 01/12/2009 07:45 6,95 13085.0 United Kingdom 10.337667
                 1 489434
                               79323P
                                                 PINK CHERRY LIGHTS
                                                                                      12 01/12/2009 07:45 6,75
                                                                                                                       13085.0 United Kingdom
                                                                                                                                                   10.337667
                2 489434 79323W
                                                       WHITE CHERRY LIGHTS 12 01/12/2009 07:45 6,75
                                                                                                                      13085.0 United Kingdom 10.337667
                 3 489434
                                 22041
                                                 RECORD FRAME 7" SINGLE SIZE
                                                                                       48 01/12/2009 07:45 2,1
                                                                                                                       13085.0 United Kingdom
                                21232 STRAWRERRY CERAMIC TRINKET BOX 24 01/12/2009 07:45 1 25
                                                                                                                       13085.0 United Kingdom
                  4 489434
```

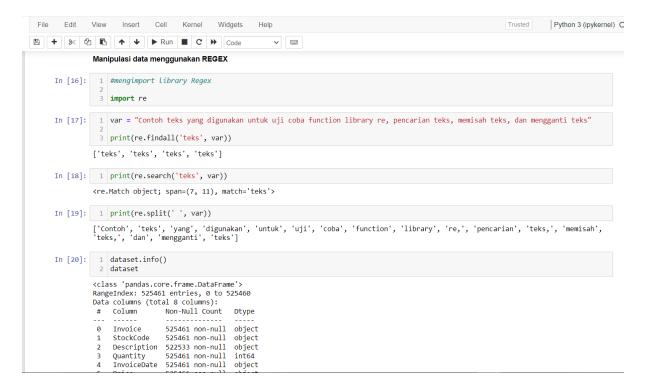
Gambar 10.



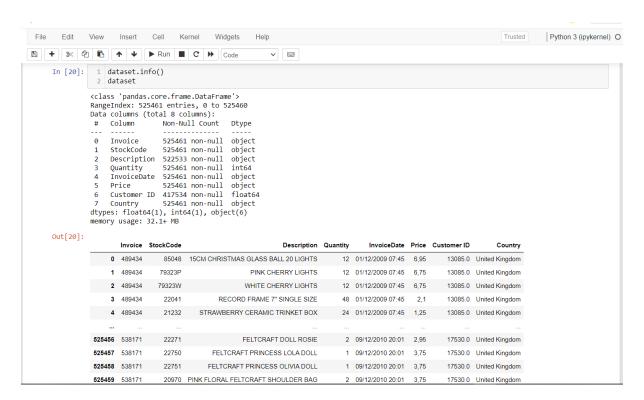
Gambar 11.



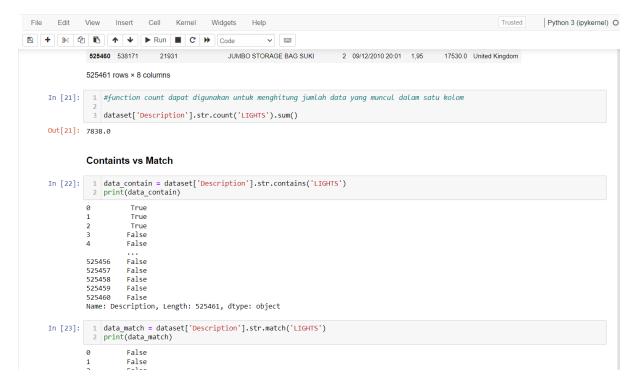
Gambar 12.



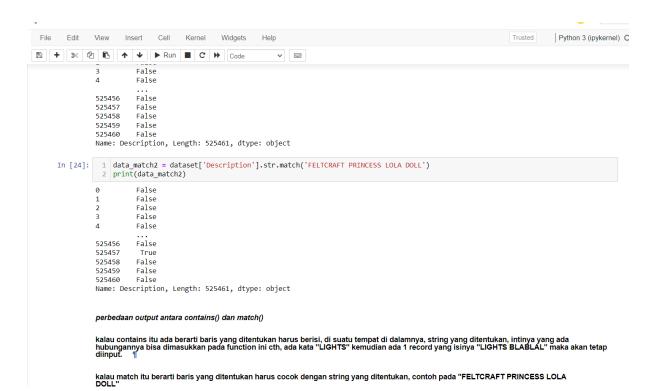
Gambar 13.



Gambar 14.



Gambar 15.



Gambar 16.

```
FIIE EAIT VIEW INSERT CEII KERNEI WIAGETS HEIP
A Code
A Code
A Code
           In [25]:
                                data_replace = dataset['Description'].str.replace('LIGHTS','LAMP')
                                  2 data_replace
           Out[25]: 0
                                                   15CM CHRISTMAS GLASS BALL 20 LAMP
                                                         PINK CHERRY LAMP
PINK CHERRY LAMP
WHITE CHERRY LAMP
RECORD FRAME 7" SINGLE SIZE
STRAWBERRY CERAMIC TRINKET BOX
                              4
                             525456 FELTCRAFT DOLL ROSIE
525457 FELTCRAFT PRINCESS LOLA DOLL
525458 FELTCRAFT PRINCESS OLIVIA DOLL
525459 PINK FLORAL FELTCRAFT SHOULDER BAG
525469 PINK FLORAL FELTCRAFT SHOULDER BAG
525460 PINK FLORAL FELTCRAFT SHOULDER BAG
                              525460 JUMBO STORAGE BAG SUKI
Name: Description, Length: 525461, dtype: object
           In [26]: 1 #menggunakan split()
                                data_split = dataset['Description'].str.split()
print(data_split)
                                                [15CM, CHRISTMAS, GLASS, BALL, 20, LIGHTS]

[PINK, CHERRY, LIGHTS]

[WHITE, CHERRY, LIGHTS]

[RECORD, FRAME, 7", SINGLE, SIZE]

[STRAWBERRY, CERAMIC, TRINKET, BOX]
                              0
                             525456 [FELTCRAFT, DOLL, ROSIE]
525457 [FELTCRAFT, PRINCESS, LOLA, DOLL]
525458 [FELTCRAFT, PRINCESS, OLIVIA, DOLL]
525459 [PINK, FLORAL, FELTCRAFT, SHOULDER, BAG, 525460 [JUMBO, STORAGE, BAG, SUKI]
Name: Description, Length: 525461, dtype: object
```

Gambar 17.

Gambar 18.