Preppin Data: Week 4(A)

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10/25/2021

Import Excel Workbook and Sheets

Final Data Cleaning?

```
## Warning in x:y: numerical expression has 2 elements: only the first used

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```

Pivot on Store,date,quarter,target

```
##         store         date               quarter         target
##  Birmingham:96   Min.   :2021-01-21   Min.   :1.00   Min.   :300.0
##  Leeds     :96   1st Qu.:2021-04-13   1st Qu.:1.75   1st Qu.:300.0
##  London    :96   Median :2021-07-06   Median :2.50   Median :327.5
##  Manchester:96   Mean   :2021-07-06   Mean   :2.50   Mean   :367.0
##  York      :96   3rd Qu.:2021-09-28   3rd Qu.:3.25   3rd Qu.:418.8
##                  Max.   :2021-12-21   Max.   :4.00   Max.   :490.0
##
##                Product        Sales
##  existing_bags     : 60   Min.   : 0.00
##  existing_mudguards: 60   1st Qu.: 6.00
##  existing_saddles  : 60   Median :13.00
##  existing_wheels   : 60   Mean   :15.31
##  new_bags          : 60   3rd Qu.:19.25
##  new_mudguards     : 60   Max.   :59.00
##  (Other)           :120
```

Total Sales by Quarter and Store

Shoutout to Dhiraj @ Slack.com R4DS Group

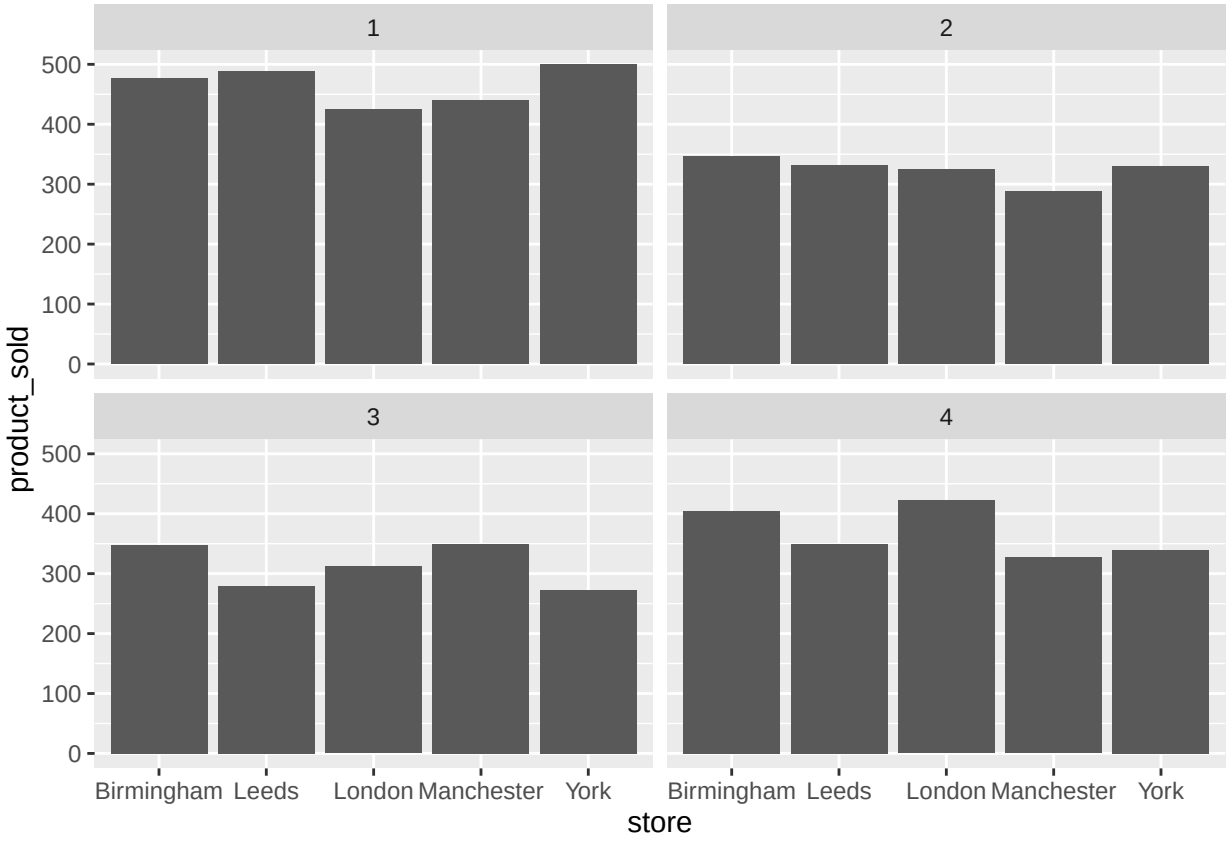
```
## # A tibble: 20 x 6
## # Groups:   quarter [4]
##    quarter  rank store      product_sold target  Diff
##      <dbl> <int> <chr>             <dbl>  <dbl> <dbl>
##  1       1     1 York                499    490     9
##  2       1     2 Birmingham          477    475     2
##  3       1     3 Leeds               488    490    -2
##  4       1     4 Manchester          440    475   -35
```

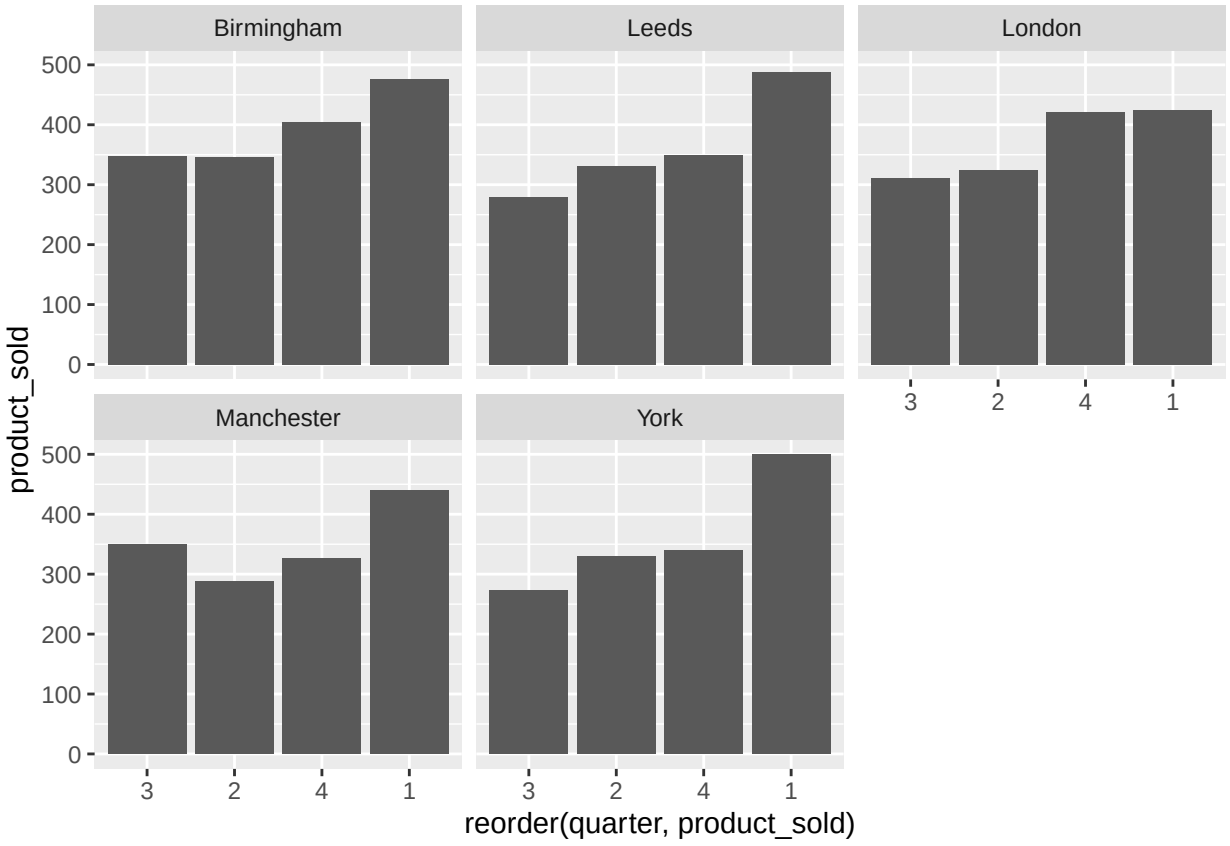
```
##  5       1     5 London              425    475   -50
##  6       2     1 York                329    300    29
##  7       2     2 Birmingham          346    325    21
##  8       2     3 Leeds               331    325     6
##  9       2     4 London              324    325    -1
## 10       2     5 Manchester          288    300   -12
## 11       3     1 Manchester          350    300    50
## 12       3     2 Birmingham          348    300    48
## 13       3     3 London              312    300    12
## 14       3     4 Leeds               279    300   -21
## 15       3     5 York                273    300   -27
## 16       4     1 London              422    400    22
## 17       4     2 York                340    330    10
## 18       4     3 Birmingham          404    400     4
## 19       4     4 Manchester          327    330    -3
## 20       4     5 Leeds               349    400   -51
```

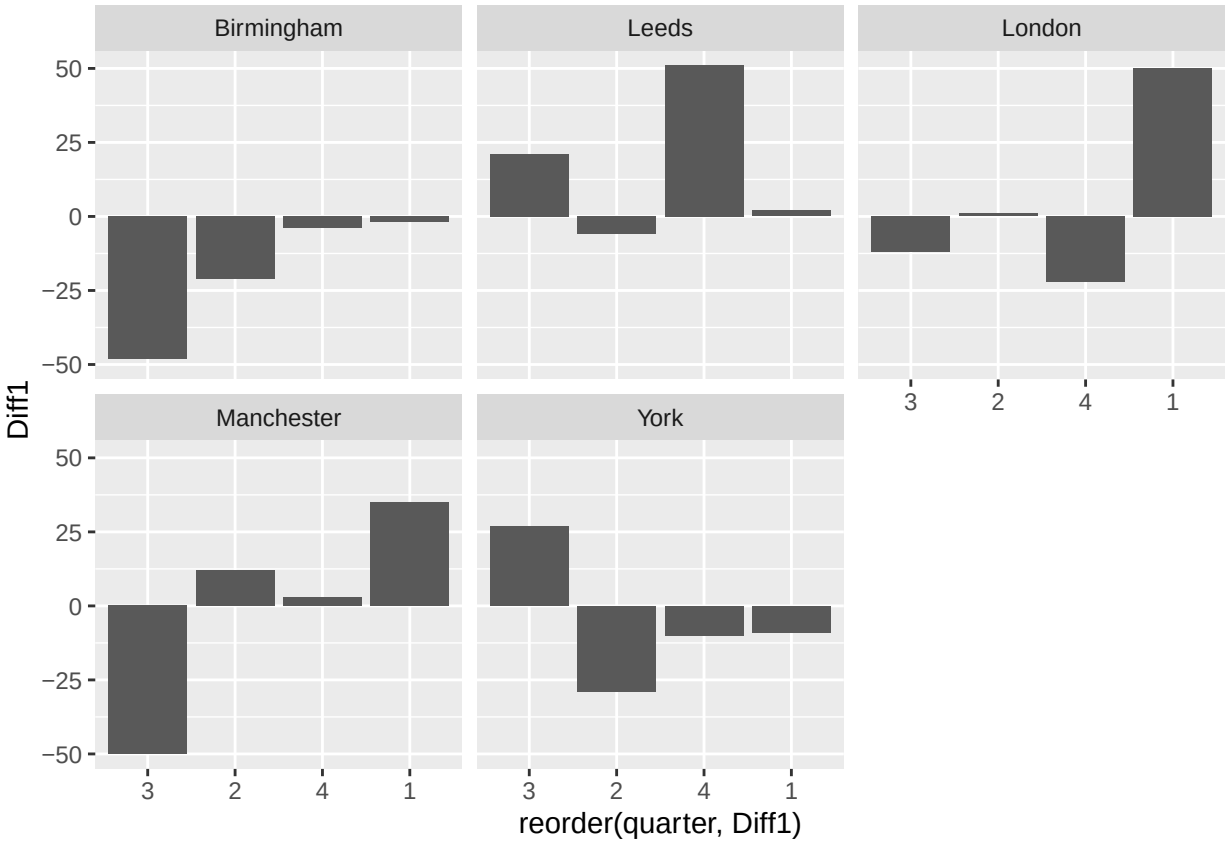
Shoutout to Vikram @ Slack.com R4DS Group

```
## # A tibble: 20 x 7
##    quarter store      product_sold target  Diff Diff1 Diff_rank
##      <dbl> <chr>             <dbl>  <dbl> <dbl> <dbl>     <dbl>
##  1       1 York                499    490     9    -9         1
##  2       1 Birmingham          477    475     2    -2         2
##  3       1 Leeds               488    490    -2     2         3
##  4       1 Manchester          440    475   -35    35         4
##  5       1 London              425    475   -50    50         5
##  6       2 York                329    300    29   -29         1
##  7       2 Birmingham          346    325    21   -21         2
##  8       2 Leeds               331    325     6    -6         3
##  9       2 London              324    325    -1     1         4
## 10       2 Manchester          288    300   -12    12         5
## 11       3 Manchester          350    300    50   -50         1
## 12       3 Birmingham          348    300    48   -48         2
## 13       3 London              312    300    12   -12         3
## 14       3 Leeds               279    300   -21    21         4
## 15       3 York                273    300   -27    27         5
## 16       4 London              422    400    22   -22         1
## 17       4 York                340    330    10   -10         2
## 18       4 Birmingham          404    400     4    -4         3
## 19       4 Manchester          327    330    -3     3         4
## 20       4 Leeds               349    400   -51    51         5
```

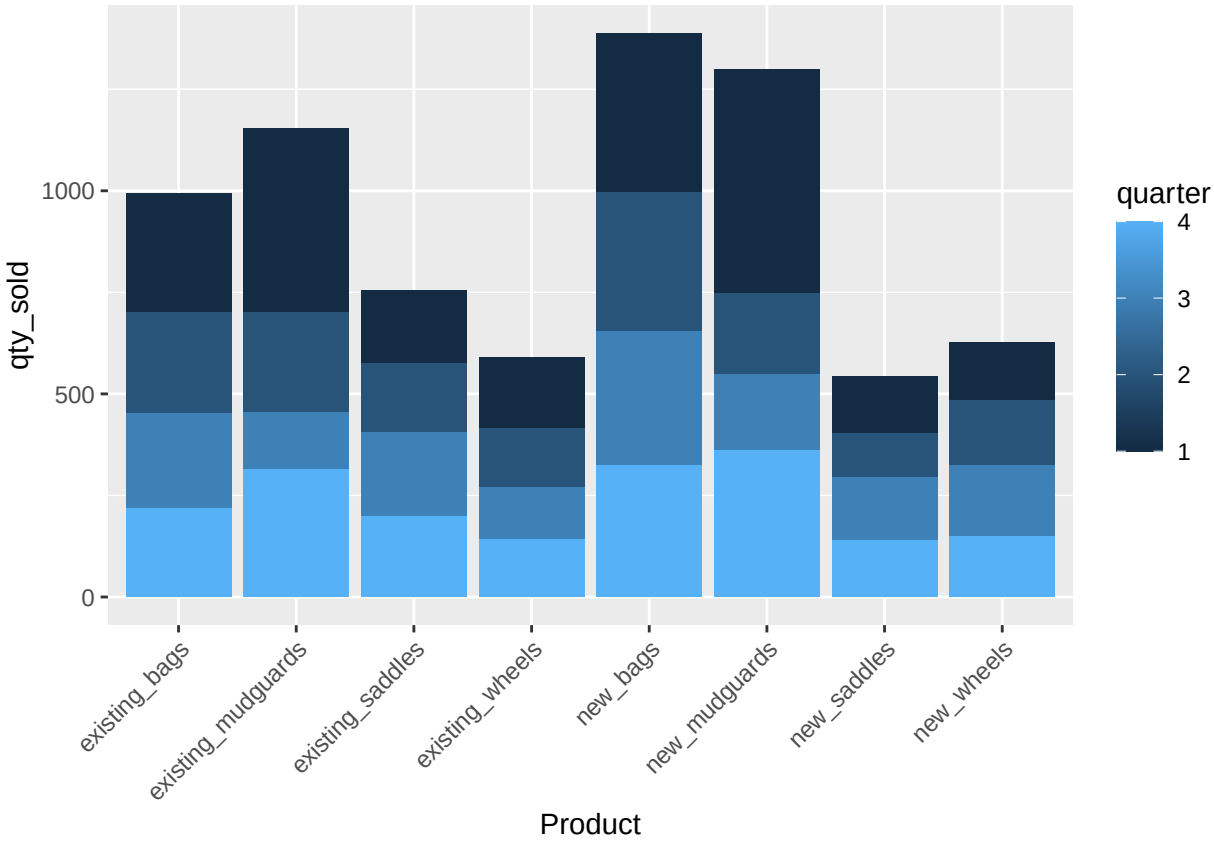
Products Sold by Store and Quarter

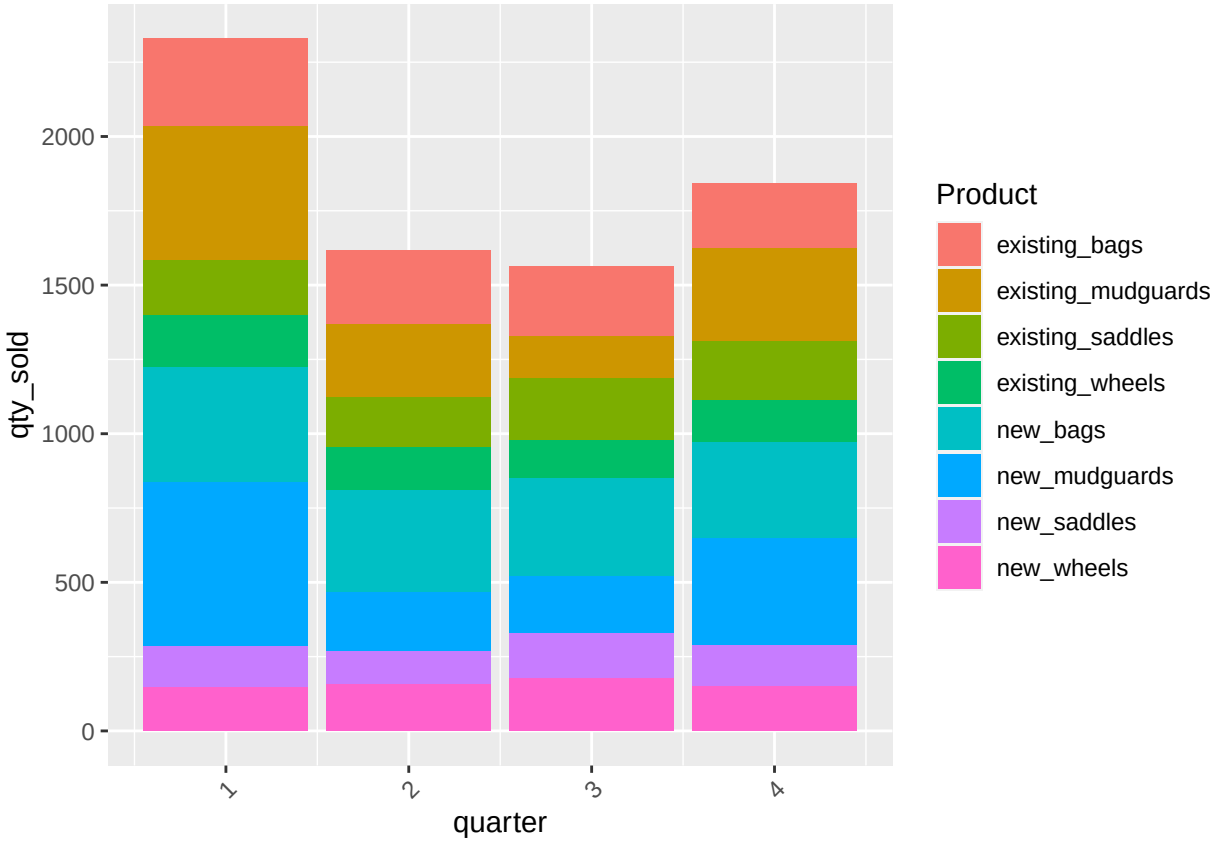


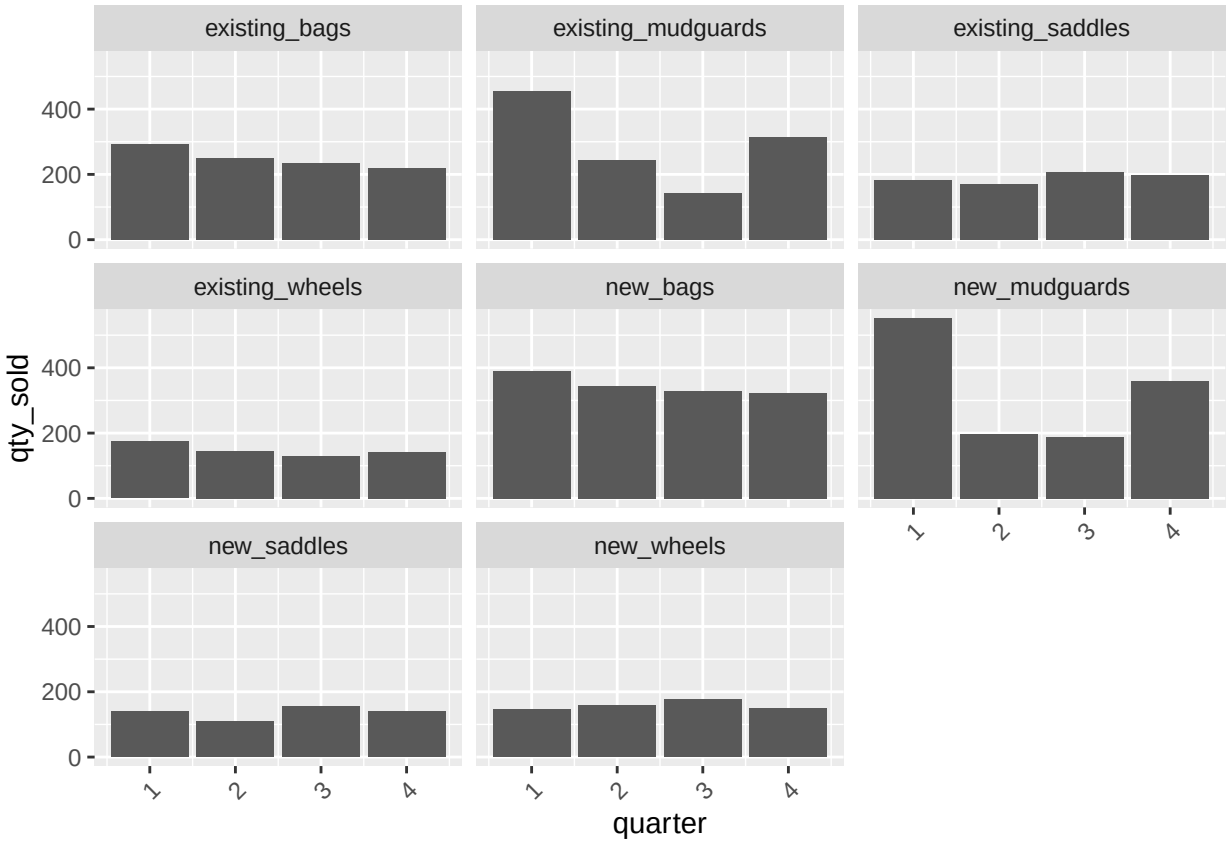

Birmingham
Leeds
London
Manchester
York
product_sold
500
400
300
200
100
0
3
2
4
1
reorder(quarter, product_sold)


Birmingham
Leeds
London
Manchester
York
Diff1
50
25
0
−25
−50
3
2
4
1
reorder(quarter, Diff1)

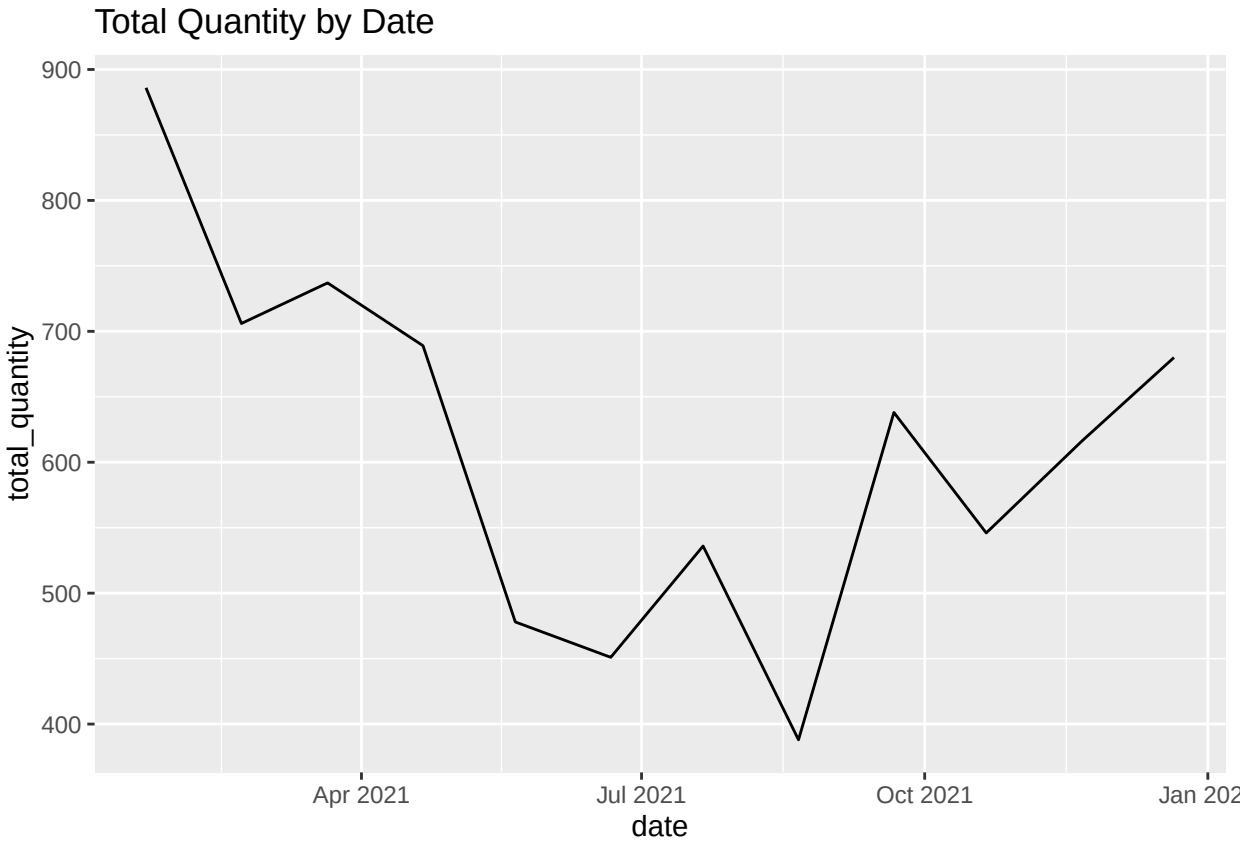
Products Sold by Quarter



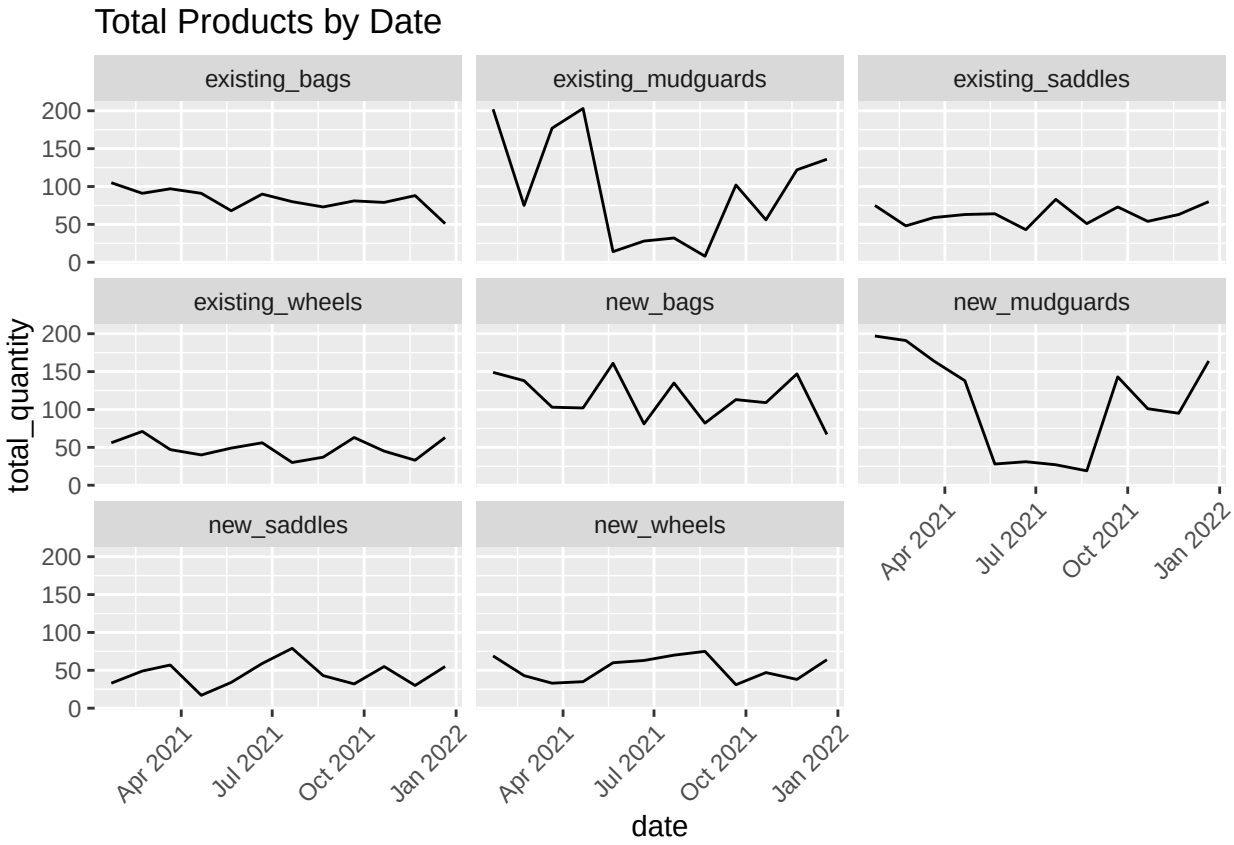



existing_bags
existing_mudguards
existing_saddles
existing_wheels
new_bags
new_mudguards
new_saddles
new_wheels
qty_sold
0
200
400
1
2
3
4
quarter

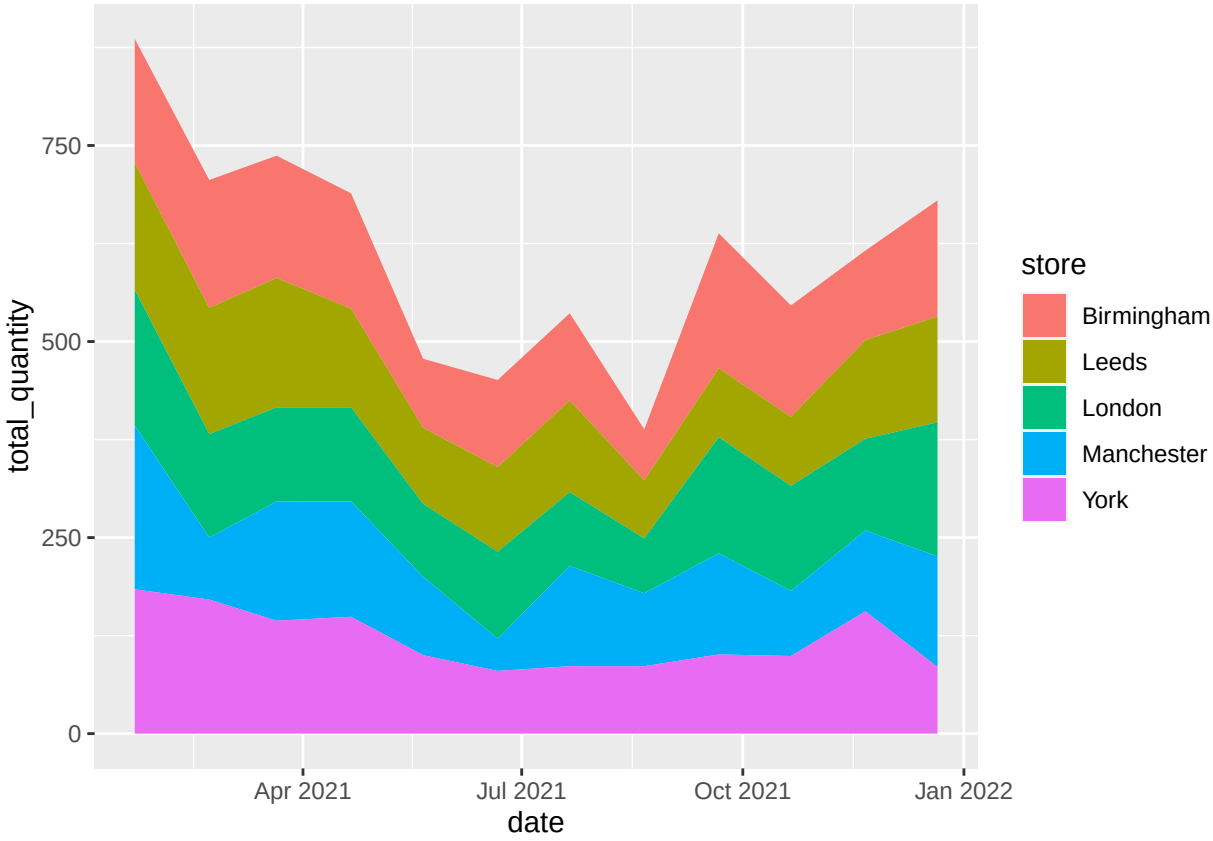
Total Quantity Sold by Day

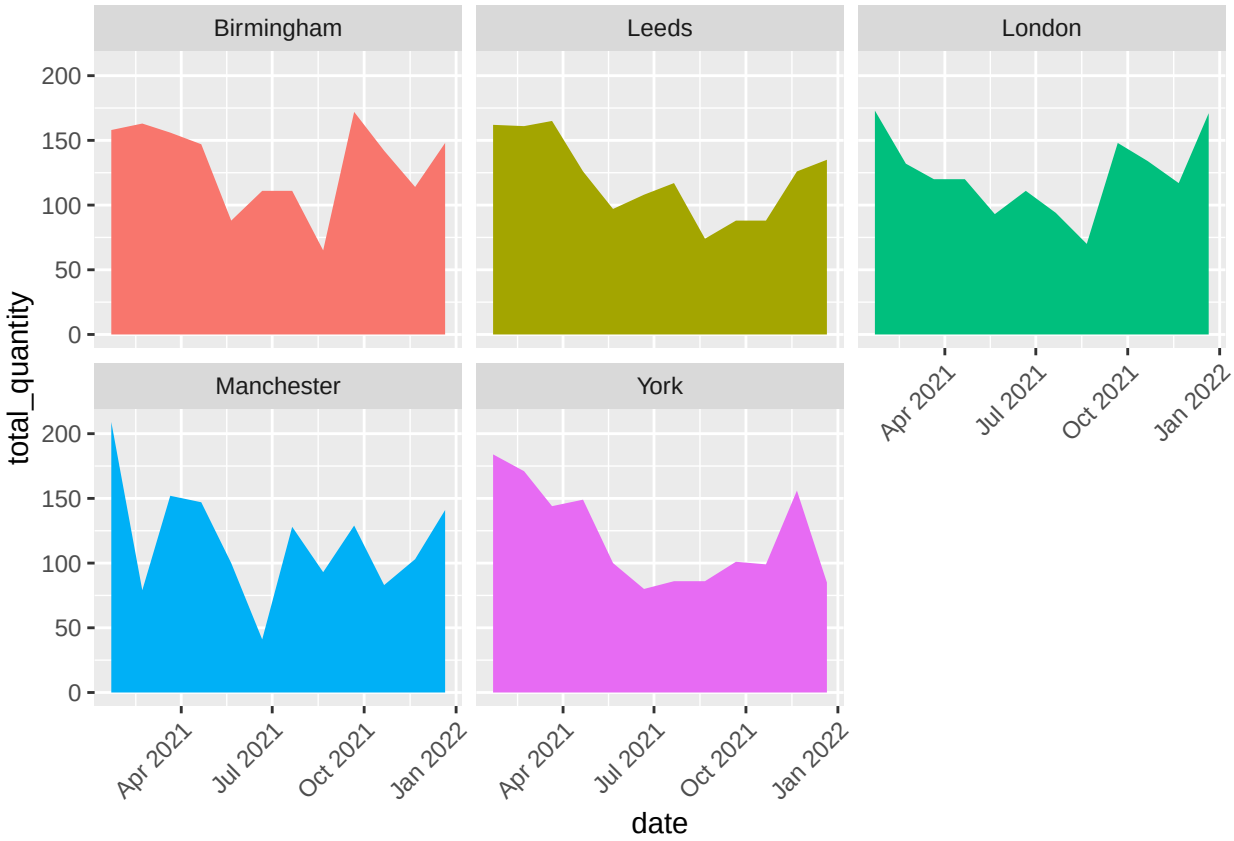


Total Products Sold by Day



Total Sales by Store




Birmingham
Leeds
London
Manchester
York
total_quantity
200
150
100
50
0
Apr 2021
Jul 2021
Oct 2021
Jan 2022
date