

Q1

```
Q1
The busiest hour is: 11

The busiest weekday is: Saturday

The busiest period is: afternoon
#####
```

Q2

```
Q2

The most profit hour is : (11, 'Profit') 102529105.24

The most profit weekday is : ('Saturday', 'Profit') 163429442.13

The most profit period is : ('afternoon', 'Profit') 412899467.69
#####
```

Q3

```
Q3
The most popular item is
Coffee
The least popular item is
Chicken sand
#####
```

Q4

```
Q4
Number of barrista needed:
149177
```

Q5

```
Q5
Drinks average price: 8.397037884857896
Foods average price: 4.843683235867535
#####
```

Q6

```
Q6
Drinks sum price: 640989306.0400301
Foods sum price: 509882909.4000093
#####
```

So,drinks make more money

Q7&8

```
label  Item
Monday Coffee      3181983
        Bread      1645220
        Tea        899114
        Sandwich   520697
        Cake       491138
Name: Transaction, dtype: int64
```

```
label  Item
Monday Pick and Mix Bowls    132
        Mighty Protein      154
        My-5 Fruit Shoot    1957
        Empanadas           2367
        Dulce de Leche       2651
Name: Transaction, dtype: int64
```

```
#####
```

```
Tuesday Coffee      3480107
        Bread      1756663
        Tea        910522
        Cake       769578
        Pastry     555274
Name: Transaction, dtype: int64
```

```
label  Item
Tuesday Ella's Kitchen Pouches  182
        Victorian Sponge      185
        Bowl Nic Pitt         873
        Bread Pudding         885
        Kids biscuit          1364
Name: Transaction, dtype: int64
```

```
#####
```

```
Wednesday Coffee 3017293
            Bread 1972003
            Tea   946436
            Cake  693925
            Pastry 509700
Name: Transaction, dtype: int64
```

```
label      Item
Wednesday Pick and Mix Bowls 631
            Mighty Protein    674
            My-5 Fruit Shoot  934
            Adjustment        938
            Victorian Sponge 1465
```

```
Name: Transaction, dtype: int64
```

```
#####
```

```
Thursday Coffee 3269280
           Bread 2095226
           Tea   924739
           Cake  770272
           Sandwich 588072
Name: Transaction, dtype: int64
```

```
label      Item
Thursday Pick and Mix Bowls 805
           Chimichurri Oil 1000
           Tartine        2281
           Spread         2404
           My-5 Fruit Shoot 2778
```

```
Name: Transaction, dtype: int64
```

```
#####
```

```
Friday Coffee      4336453
      Bread      2591253
      Tea        1056290
      Cake        706945
      Sandwich    699689
Name: Transaction, dtype: int64
```

```
label Item
Friday Honey          462
      The BART        475
      Mighty Protein  495
      Pick and Mix Bowls 973
      Chimichurri Oil 1068
```

```
Name: Transaction, dtype: int64
```

```
#####
```

```
Saturday Coffee      5626357
      Bread      3927969
      Cake        1483843
      Tea        1456521
      NONE        970186
Name: Transaction, dtype: int64
```

```
label Item
Saturday Victorian Sponge  586
      Fairy Doors      593
      Bowl Nic Pitt    1155
      Pick and Mix Bowls 1197
      Basket          1663
```

```
Name: Transaction, dtype: int64
```

```
#####
```

```
Sunday Coffee      4172584
      Bread      2225199
      Cake        1016661
      Tea        837234
      Sandwich    660421
Name: Transaction, dtype: int64
```

```
label Item
Sunday Chicken sand      68
      Basket          706
      Empanadas      735
      Victorian Sponge 896
      Bacon          1248
```

```
Name: Transaction, dtype: int64
```

```
#####
```

Q9



0.41 drink per transaction