```
In [2]:
         import pandas as pd
         import seaborn as sns
In [3]:
         train = pd.read csv("train2.csv") # loading the train1 dataset from step 2
In [4]:
         train.head()
                               user_id vehicle_type platform_type customer_type placed_day placed_day
Out[4]:
                 order_no
             Order_No_4211
                          User_Id_633
                                              Bike
                                                                     Business
         1 Order_No_25375 User_ld_2285
                                              Bike
                                                                     Personal
                                                                                     12
                                                             3
            Order_No_1899
                                              Bike
                                                             3
                                                                     Business
                                                                                     30
                           User_Id_265
            Bike
                                                             3
                                                                     Business
                                                                                     15
         4 Order_No_27883 User_Id_1737
                                              Bike
                                                             1
                                                                     Personal
                                                                                     13
        5 rows × 32 columns
In [5]:
         train.columns
        Index(['order_no', 'user_id', 'vehicle_type', 'platform_type', 'customer_type'
Out[5]:
                'placed_day', 'placed_wkday', 'placed_time', 'confirmed_day',
                'confirmed_wkday', 'confirmed_time', 'arrive_pickup_day',
                'arrive_pickup_wkday', 'arrive_pickup_time', 'pickup_day',
                'pickup wkday', 'pickup time', 'delivered day', 'delivered wkday',
                'delivered_time', 'distance_km', 'temp', 'pickup_lat', 'pickup_long',
                'delivered_lat', 'delivered_long', 'Rider Id', 'time_pickup_to_arrival'
                'No Of Orders', 'Age', 'Average_Rating', 'No_of_Ratings'],
               dtype='object')
In [6]:
         train['confirmed wkday'].value counts() #seeing how many orders are placed wi
```

```
Out[6]: 4 4229
5 3993
2 3959
3 3823
1 3788
6 1223
7 186
Name: confirmed wkday, dtype: int64
```

From here there are:

- 3788 orders on Monday
- 3959 orders on Tuesday
- 3823 orders on Wednesday
- 4229 orders on Thursday
- 3993 orders on Friday
- 1223 orders on Saturday
- 186 orders on Sunday

In [19]:

train['placed_day'].value_counts() #seeing how many orders are placed within

```
848
Out[19]:
                  822
           13
                  811
                  804
           14
           6
                  794
           28
                  784
           4
                  769
           18
                  769
           15
                  762
           11
                  752
           5
                  747
           3
                  718
           30
                  714
                  709
           10
           25
                  691
           29
                  685
           27
                  670
                  667
           12
                  666
           22
                  650
           21
                  649
           20
                  643
           26
                  639
                  602
           17
                  593
           24
                  591
           19
                  589
           16
                  565
           23
                  563
           1
                  482
                  453
           Name: placed day, dtype: int64
```

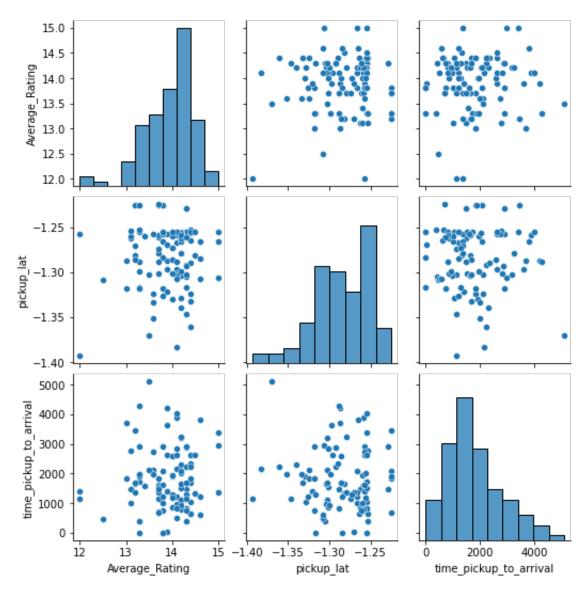
Categorical Variables

Out[45]:		order_no	user_id	vehicle_type	platform_type	customer_type	placed_da				
	0	Order_No_4211	User_Id_633	Bike	3	Business	(
	1	Order_No_25375	User_Id_2285	Bike	3	Personal	1:				
	2	Order_No_1899	User_ld_265	Bike	3	Business	3(
	3	Order_No_9336	User_ld_1402	Bike	3	Business	1!				
	4	Order_No_27883	User_Id_1737	Bike	1	Personal	1;				
	•••			•••	•••		•1				
	21196	Order_No_8834	User_ld_2001	Bike	3	Personal	20				
	21197	Order_No_22892	User_Id_1796	Bike	3	Business	1;				
	21198	Order_No_2831	User_Id_2956	Bike	3	Business	•				
	21199	Order_No_6174	User_Id_2524	Bike	1	Personal	4				
	21200	Order_No_9836	User_Id_718	Bike	3	Business	21				
21201 rows × 32 columns											
In [48]:	df.gr	oupby('deliver	ed_wkday').A	ge.median()	#We can also	look at how a	a numeric				
Out[48]:	delivered_wkday 1 872.0 2 872.0 3 874.0 4 872.0 5 846.0 6 824.0 7 900.0 Name: Age, dtype: float64										

Numerical Variables

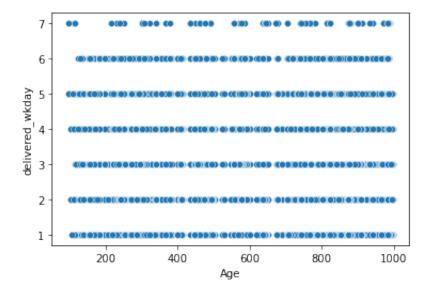
```
In [54]: sns.pairplot(df[['Average_Rating', 'pickup_lat', 'time_pickup_to_arrival']].he
```

Out[54]: <seaborn.axisgrid.PairGrid at 0x7ffc782e5f40>



In [57]: sns.scatterplot(x="Age", y="delivered_wkday", data=df[df.Age < 1000])</pre>

Out[57]: <AxesSubplot:xlabel='Age', ylabel='delivered_wkday'>



```
In [61]: Age = pd.read_csv("train2.csv")
```

In [62]: Age

Out[62]:		order_no	user_id	vehicle_type	platform_type	customer_type	placed_da				
	0	Order_No_4211	User_Id_633	Bike	3	Business	!				
	1	Order_No_25375	User_Id_2285	Bike	3	Personal	1:				
	2	Order_No_1899	User_Id_265	Bike	3	Business	3(
	3	Order_No_9336	User_ld_1402	Bike	3	Business	1!				
	4	Order_No_27883	User_Id_1737	Bike	1	Personal	1:				
	•••						••				
	21196	Order_No_8834	User_ld_2001	Bike	3	Personal	2(
	21197	Order_No_22892	User_ld_1796	Bike	3	Business	1:				
	21198	Order_No_2831	User_Id_2956	Bike	3	Business					
	21199	Order_No_6174	User_Id_2524	Bike	1	Personal	4				
	21200	Order_No_9836	User_Id_718	Bike	3	Business	20				
	21201 rows × 32 columns										
In [64]:	<pre>correlations = Age[Age_cols].corr() correlations</pre>										
	et recent call el_10759/5686	,									
In []:											