

Objective

Analyzing the data of DNA products the customers bought and the cross-selling customers the ACOM subscriptions.

Data Description

The data consists of 10 variables with 251942 observations.

Variable	Description
prospectid	Uniqueid for each customer
ordernumber	Unique order id of DNA
ordercreatedate	DNA product was ordered(date)
regtenure	Customer registered email id with ancestry (days)
customer_type_group	Customer type (at DNA product order)
dnatestactivationdayid	DNA test is activated (date)
daystogetresult_grp	Test to get ready(days)
dna_visittrafficsubtype	Traffic channel (DNA product)
xsell_gsa	New ACOM subscriber Addition
xsell_day_exact	From DNA product to ACOM Subscription (days)

Cleaning and imputation

- Dropped 73097 rows where either ordercreatedate or daystogetresult_grp missing, if one of them is not null can be imputed
- daystogetresult_grp imputed with the

Exploratory Data Analysis

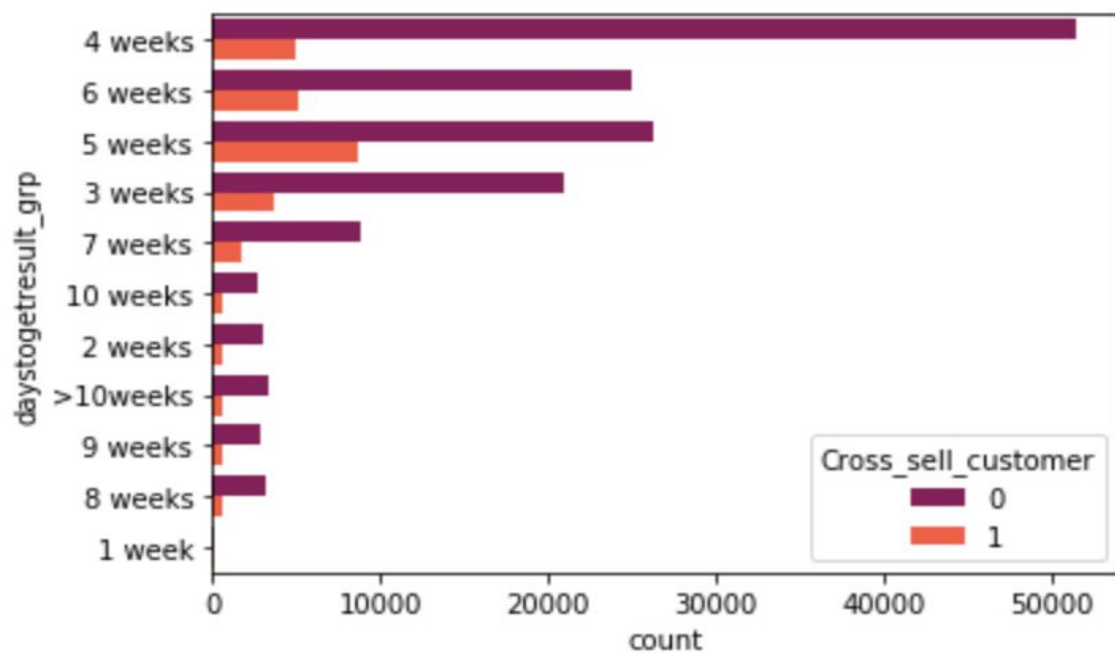
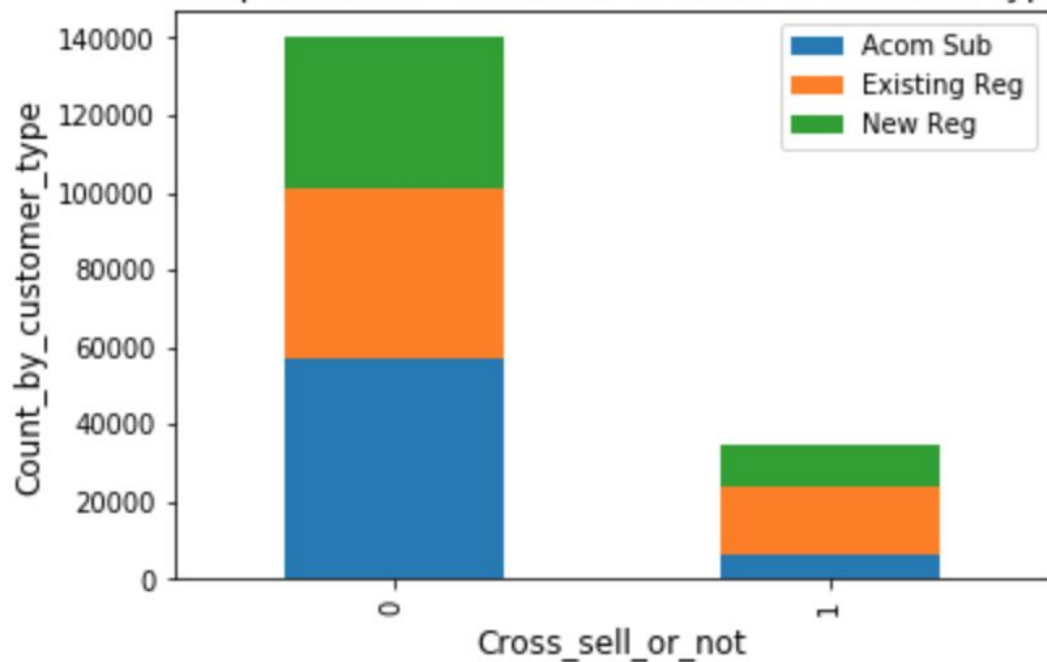
Post cleaning and imputation data set looked like:

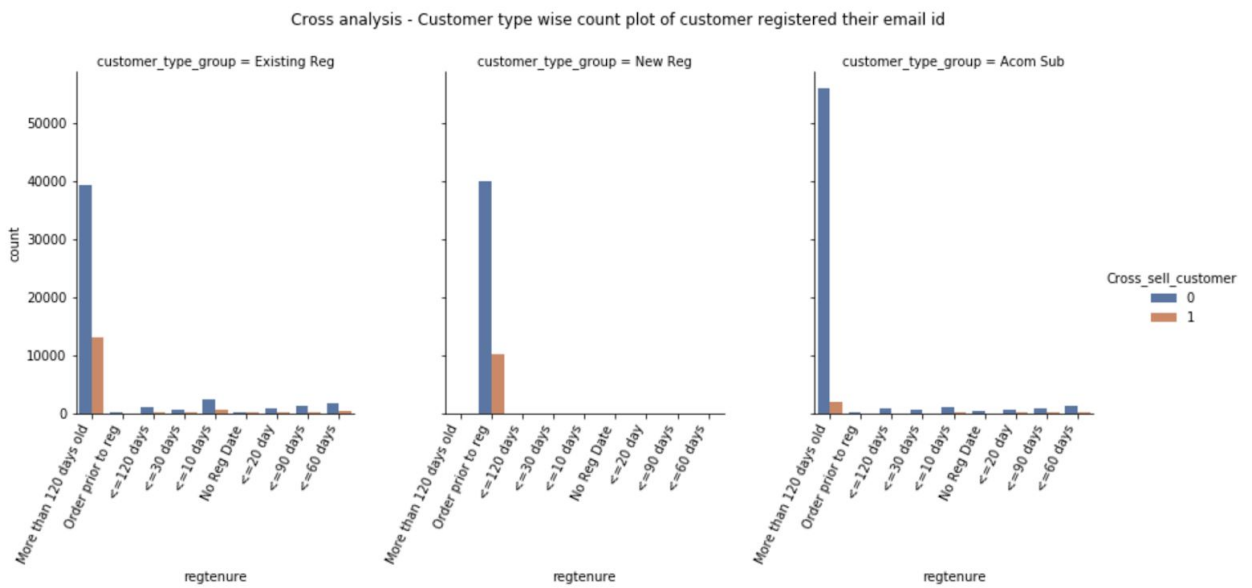
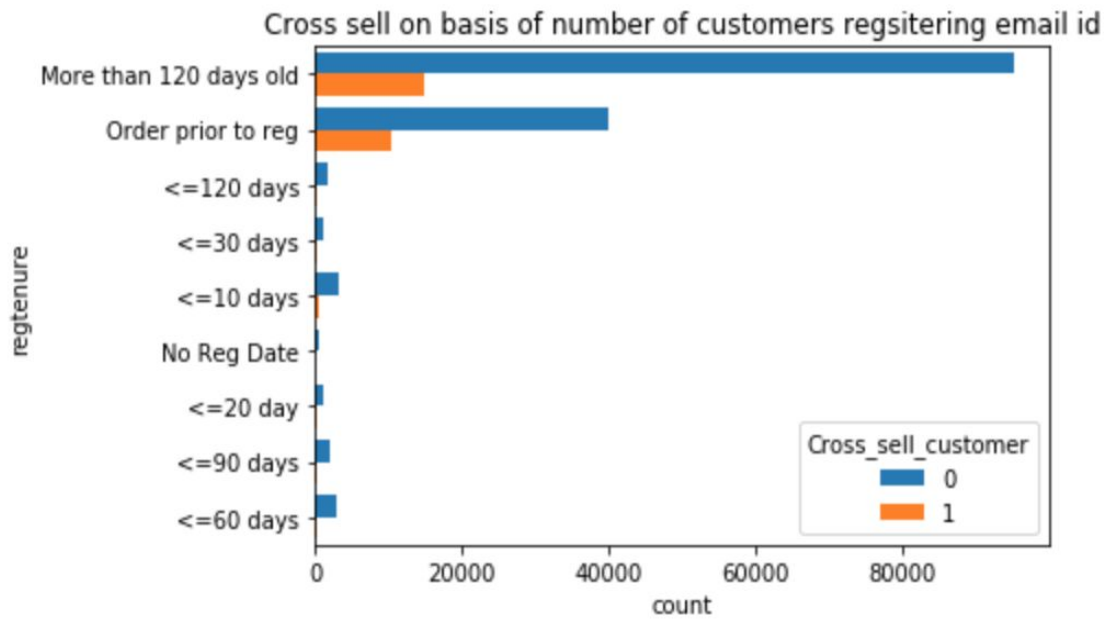
```
data_file_clean_imp["prospectid"].count(  
174982
```

The data variables and their respective datatype were such:

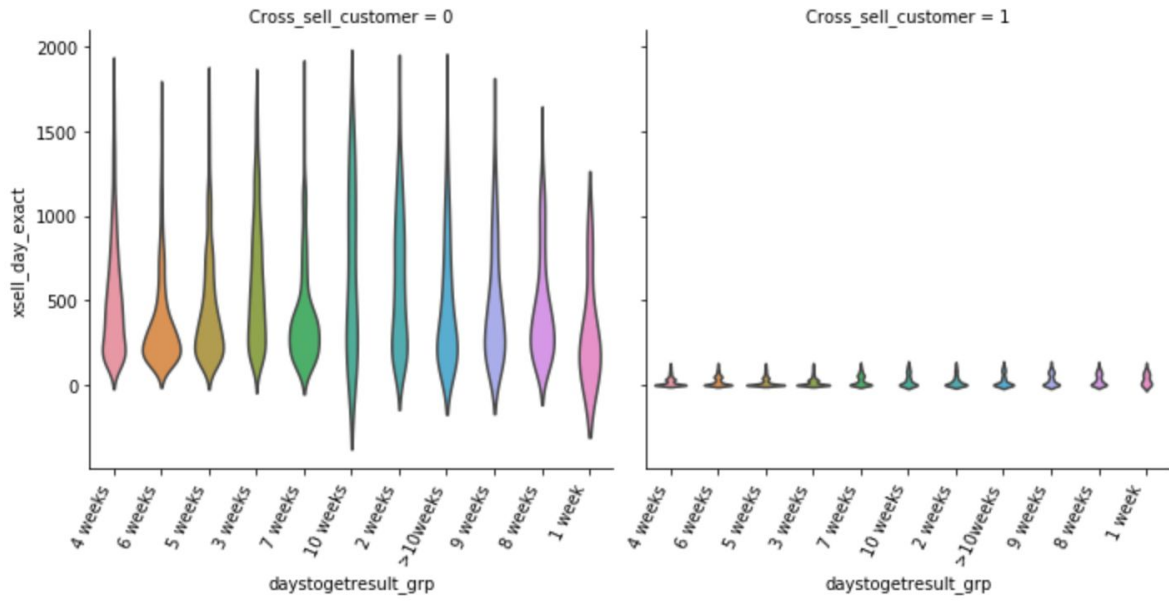
```
prospectid          int64  
ordernumber         int64  
ordercreatedate     object  
regtenure           object  
customer_type_group object  
dnatestactivationdayid object  
daystogetresult_grp object  
dna_visittrafficsubtype object  
xsell_gsa           int64  
xsell_day_exact     float64  
dtype: object
```

Group Barchart - Cross sell on basis of customer type





Cross analysis - Days to get result of DNA product



Traffic distribution

