

Pelican Stores Case Analysis

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The dataset for this analysis included seven variables: type of customer, items (total number of items purchased), method of payment, gender, marital status, age, and net sales (\$ amount charged to the credit card).

This analysis was completed in order to gain insights about the customer base and to determine the effectiveness of a promotional campaign involving discount coupons.

The analysis, including graphical and tabular displays, is below.

Analysis #1

According to figures 2.1a and b, we can see that about 93% of the customers are female and out of that number 66% are customers who made a purchase using a discount coupon. Married females compose the greatest percent of customers with a total of 80%.

Also, we can further ascertain that 70% of total customers, whether male or female, used a promotional coupon.

From figures 2.1c and 2.1d, we can determine that majority of the customers are from age groups 30-39 and 40-49. These age ranges consist of 30 and 33% of the total customers respectively, with the greater percentage of both categories being promotional customers.

Figure 2.1a

Count of Type of Customer	Column Labels		Grand Total
	Promotional	Regular	
Row Labels			
Female	66.00%	27.00%	93.00%
Married	58.00%	22.00%	80.00%
Single	8.00%	5.00%	13.00%
Male	4.00%	3.00%	7.00%
Married	3.00%	1.00%	4.00%
Single	1.00%	2.00%	3.00%
Grand Total	70.00%	30.00%	100.00%

Figure 2.1b

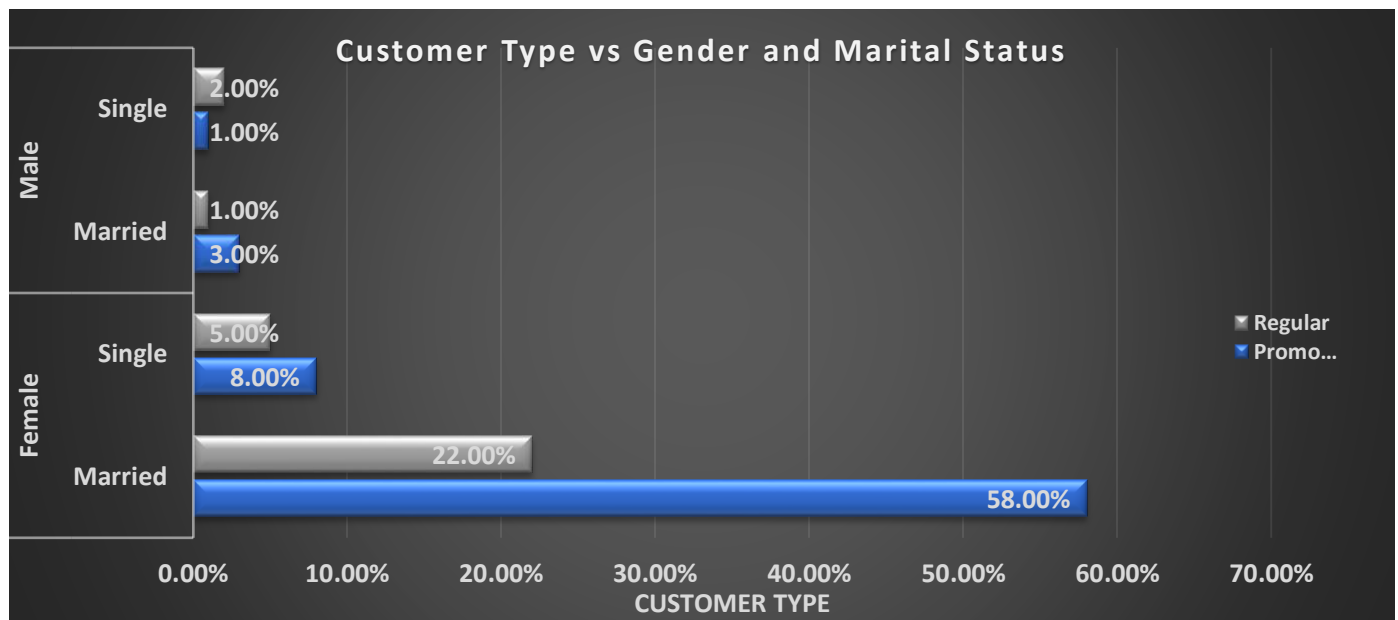
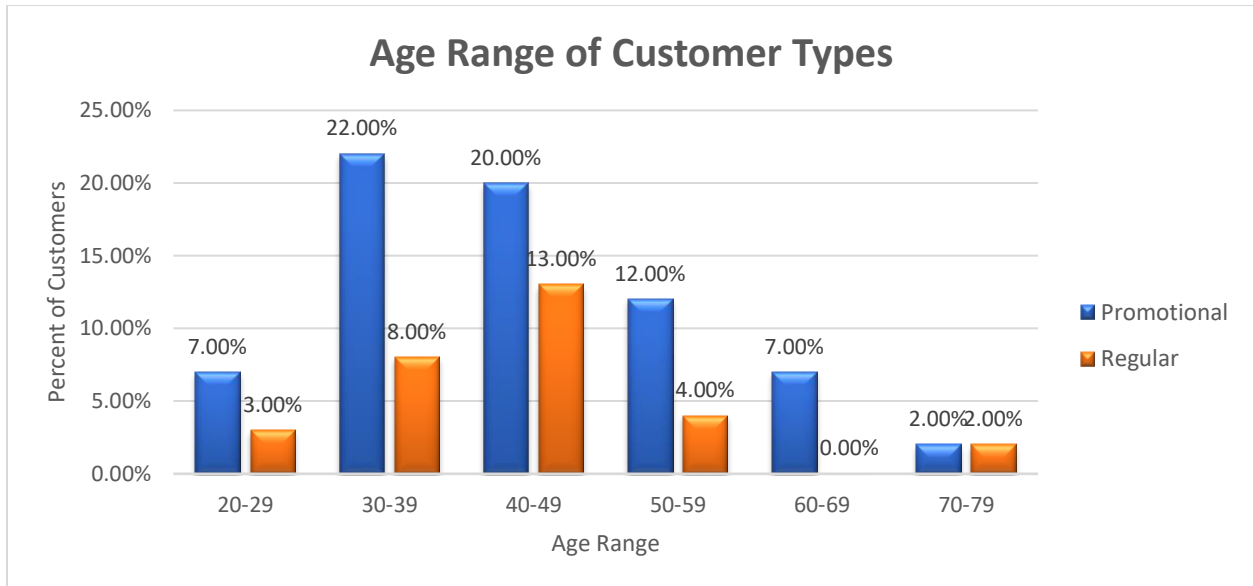


Figure 2.1c

Count of Type of Customer	Column Labels		Grand Total
	Promotional	Regular	
Age Range			
20-29	7.00%	3.00%	10.00%
30-39	22.00%	8.00%	30.00%
40-49	20.00%	13.00%	33.00%
50-59	12.00%	4.00%	16.00%
60-69	7.00%	0.00%	7.00%
70-79	2.00%	2.00%	4.00%
Grand Total	70.00%	30.00%	100.00%

Figure 2.1d



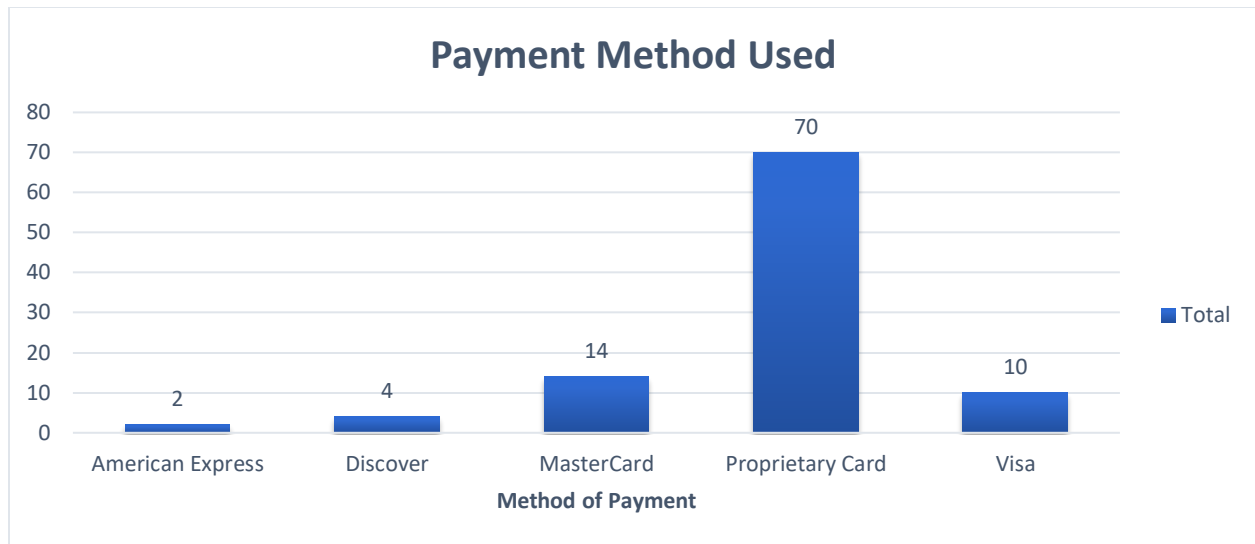
Analysis #2

From figures 2.2a and 2.2b below, we can determine that an overwhelming amount of customers utilized the Proprietary Card method of payment. Out of the 100 customers, 70 used this method of payment.

Figure 2.2a

Payment Method	Percent of Method of Payment
American Express	2
Discover	4
MasterCard	14
Proprietary Card	70
Visa	10
Grand Total	100

Figure 2.2b



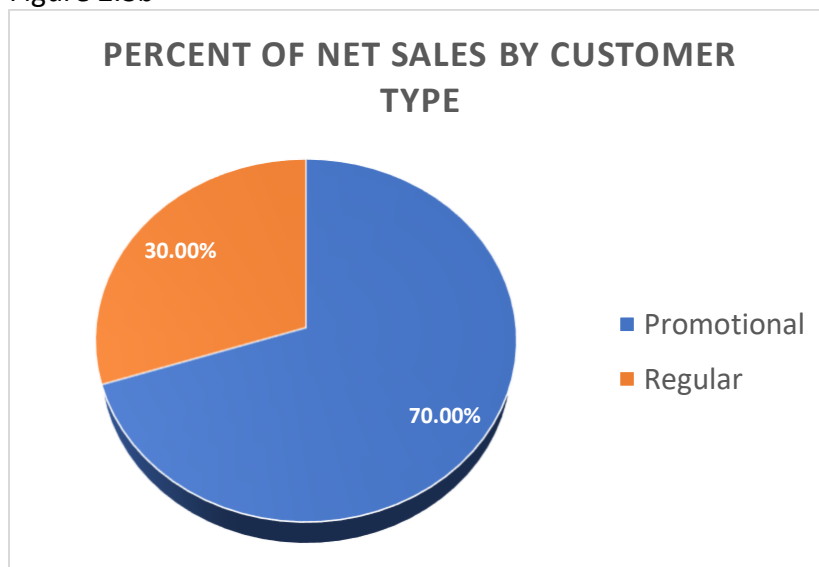
Analysis #3

From the table and graph below, based on net sales, 70% of customers were promotional. Out the grand total net sales of \$7,760.05, promotional customers contributed \$5,900.30.

Figure 2.3a

Customer type	Percent of Net Sales	Sum of Net Sales
Promotional	70.00%	\$5,900.30
Regular	30.00%	\$1,859.75
Grand Total	100.00%	\$7,760.05

Figure 2.3b



Analysis #4

On the below scatter diagram, there is no pattern to the plotted points and the trendline is horizontal. This implies that there is no relationship, whether positive or negative between net sales and customer age.

Figure 2.4

