



TAKING A CLOSER LOOK

MKT 6337: Group 9
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AGENDA

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TEST AND LEARN PLAN

Business Objective

ShopKo's customer base continues to do business but there's potential for more!

HOW YOU MIGHT ASK?

Your positive image, reputation for quality encourages customers to shop but there's more insight to your customers that we've uncovered.

Our goal is to present strategies and develop several routes to increase revenue for ShopKo.

Executive Summary

Data from 5295 records of consumer behavior
41 product categories

4 customer segments determined by product share

Elasticity modeling for product categories

Marketing promotions and bundling suggestions outlined for each segment

Market communication evaluated

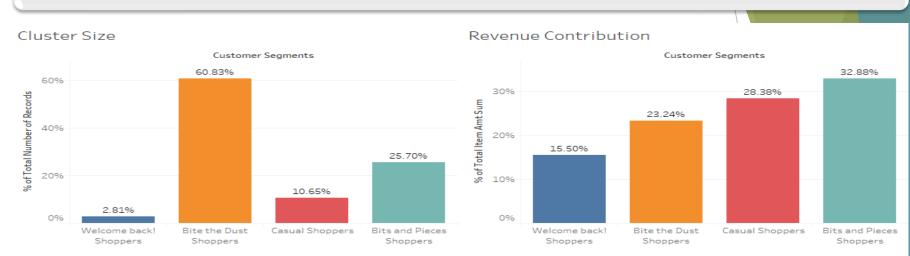
Each segment has an opportunity for growth

Identified potential revenue growth of 19.68%

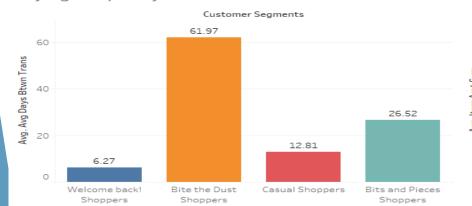
CUSTOMER SEGMENTATION

WELCOME BACK!	BITE THE DUST SHOPPERS	CASUAL	BITS OR PIECES
SHOPPERS		SHOPPERS	SHOPPERS
 HIGHLY FREQUENT SHOPPERS LEAST ENGAGEMENT OF EMAILS LOYAL GROUP BUYS FROM ALL ACROSS PRODUCT CATEGORIES AND OF HIGH VOLUME STAYS MOST ACTIVE WITHIN TENURE MONTHS 	 SELDOM SHOPPERS HIGHEST ENGAGEMENT OF EMAILS LESS EMAILED SENT SELECTIVE SHOPPERS LEAST ACTIVE WITHIN TENURE MONTHS AND LEAST LOYAL 	 REGULAR SHOPPERS MOST EMAILED SENT MORE LIKELY TO OPEN EMAILS LOYAL GROUP MID-RANGE OF PRODUCT CATEGORY CHOICE 	 IRREGULAR SHOPPERS INTEREST IN EMAIL SWAYS TO MORE SELECTIVE ON PRODUCT CATEGORIES

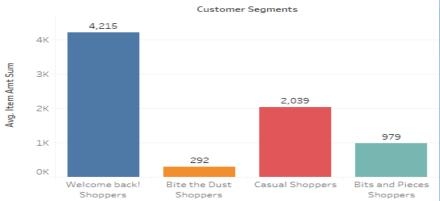
SEGMENT DETAILS



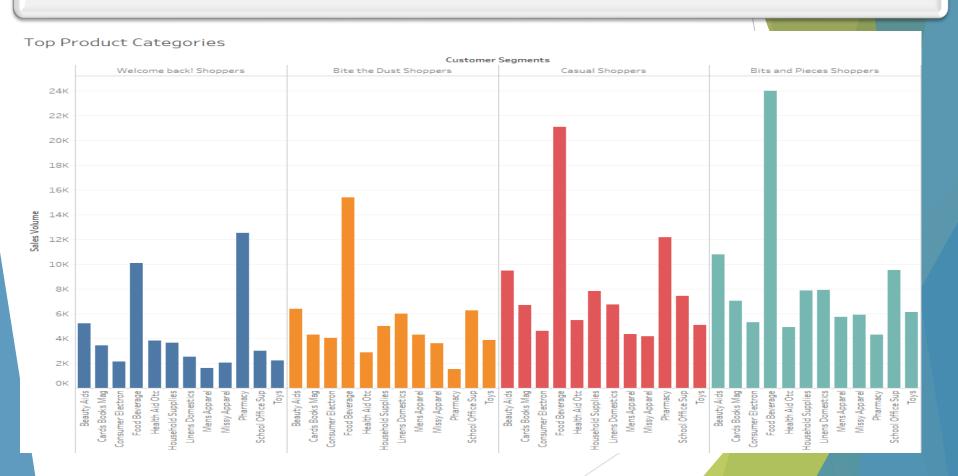




Avg Amt Spent



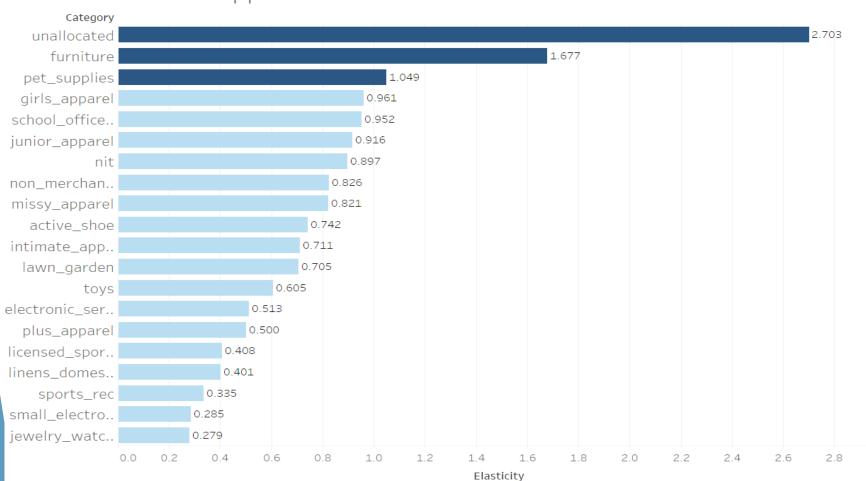
SALE VOLUME CONTRIBUTION



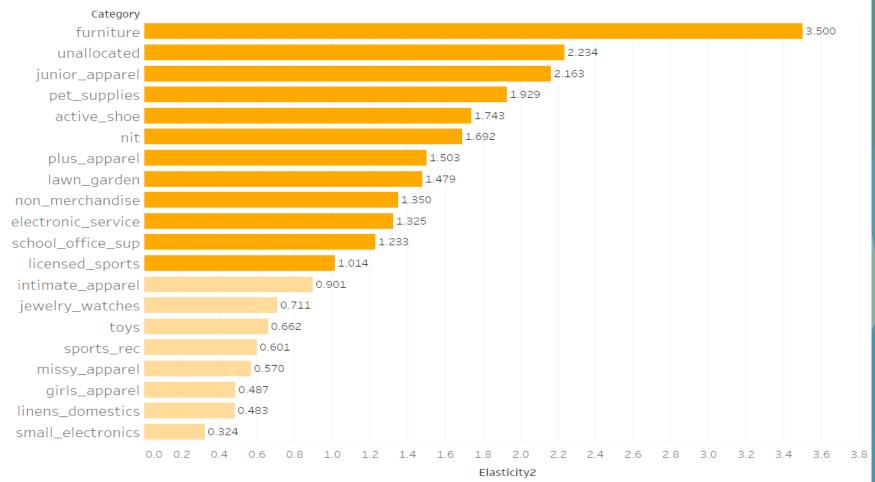
ELASTICITY ANALYSIS

WELCOME BACK!	BITE THE DUST	CASUAL	BITS OR PIECES
SHOPPERS	SHOPPERS	SHOPPERS	SHOPPERS
•UNALLOCATED •FURNITURE •PET SUPPLIES	•FURNITURE •UNALLOCATED •JUNIOR APPAREL •PET SUPPLIES •ACTIVE SHOES •NIT •PLUS APPAREL •LAWN GARDEN •NON MERCHANDISE •ELECTRONIC SERVICE •SCHOOL OFFICE SUPPLIES •LICENSED SPORTS	•LICENSED SPORTS •PET SUPPLIES •FURNITURE	•FURNITURE •UNALLOCATED •LICENSED SPORTS •PLUS APPAREL

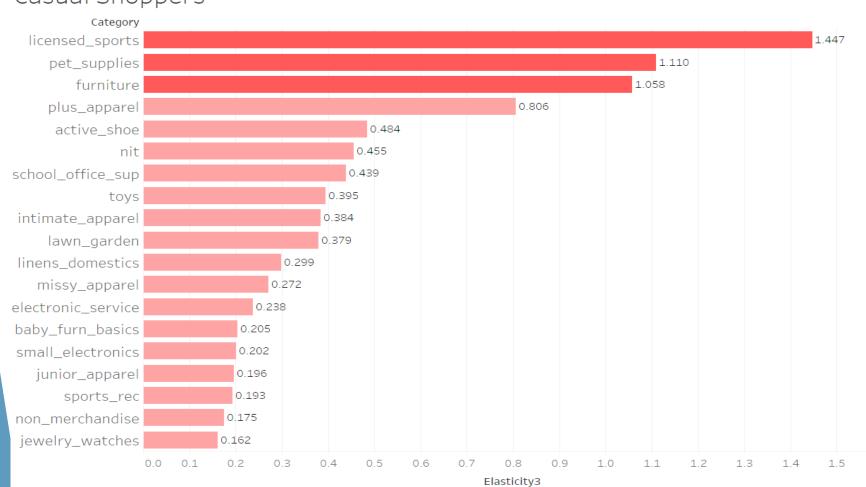
Welcome Back! Shoppers



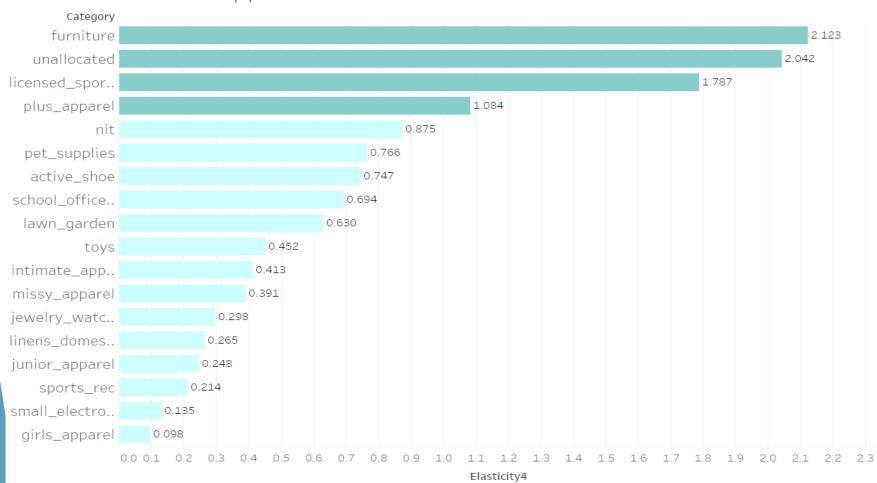
Bite the Dust! Shoppers



Casual Shoppers



Bits and Pieces Shoppers



MARKET BASKET ANALYSIS

Product bundling for top revenue driving categories for each customer segment.

Odds ratio represents the odds of the product category being bought if a purchase is made from "Bundle Category". Hence, higher odds of purchase is better bundling option.

w	ELCOME BACK! S	HOPPER	S			ITE THE DUST SI	HOPPERS	
Product Category	Bundle Category	Estimates	Odds of Pruchas	Product	: Category	Bundle Category	Estimates	
				consume	er_electron	electronic_ser	0.7822	2.19
pharmacy	womens_accesso	4.9413	139.95					
						home_decor	0.4671	1.60
	pet_supplies	2.6308				kitchen_tablet	0.3836	1.47
	junior_apparel	3.8494		linens_0	domestics	home_organizat	0.3732	1.45
missy_apparel	lawn_garden	3.3386				unallocated	0.6953	2.00
	consumer_elect	4.5401				small_electron	0.2132	1.24
	furniture	3.0182	20.45					
				mens_	_apparel	active_shoe	0.4951	1.64
	CASUAL SHOP	PERS						
Product Category	Bundle Category	Estimates	Odds of Pruchas	-		intimate_appar	0.3766	1.46
				missy_	apparel	junior_apparel	1.0843	2.96
	baby_personal_	1.4314	4.18			plus_apparel	0.2335	1.26
pharmacy	health_aid_otc	1.4411	4.23					
	food_beverage	2.9779	19.65					
	cards_books_ma	1.7847	5.96		ВІ	TS OR PIECES SI	HOPPERS	
	sports_rec	1.301	3.67	Product	Category	Bundle Category	Estimates	Odds of Pruchas
consumer_electror	household_supp	1.3295	3.78					
consumer_electron	optical	1.3426	3.83			intimate_appar	0.6485	1.91
	non_merchandis	2.3702	10.70	-i		junior_apparel	1.0568	2.88
	electronic_ser	1.5769	4.84	missy_	_apparel	womens_access	0.388	1.47
						pet_supplies	0.2995	1.35
	jewelry_watche	1.0206	2.77					
linens_domestics	food_beverage	2.0392	7.68			electronic_ser	0.9818	2.67
iirieris_domestics	home_improveme	0.842	2.32	concume	er_electron	toys	0.4059	1.50
	home_decor	0.854	2.35	Consume	el_electron	non_merchandis		2.33
						sports_rec	0.3487	1.42
	junior_apparel	1.3033						
	intimate_appar	0.9319	154%			home_organizat	0.5182	1.68
missy_apparel	mens_apparel	0.6737	96%	linens_0	domestics	furniture	0.7743	2.17
	jewelry_watche	0.5612	75%			home_decor	0.3365	1.40
	cards_books_ma	0.8076	124%					

MARCOM ANALYSIS

										,		
Cluster	Coeff(Email)	# Emails sent(avg)	# customers	Avg Reve	Elasticity	Avg Emails sent	To	tal Rev	Emails to be ser	New Rev	Change% (Email	Change% (Rev)
1	2.53447	77	149	4215	0.04630	77	\$	628,085.00	150.00	\$ 655,654.62	95%	4.3895%
2	0.37463	65	3221	292	0.08339	65	\$	941,795.00	114.44	\$ 1,001,527.81	76%	6.3424%
3	0.98252	97	564	2039	0.04674	97	\$	1,150,074.00	150.00	\$ 1,179,445.48	55%	2.5539%
4	0.22235	82	1361	979	0.01862	82	\$	1,332,353.00	82.00	\$ 1,332,353.00	0%	0.0000%
		Cost per email	\$ 0.005		Current email cost	\$ 1,935.74			Current Revenu	\$ 4,052,307.00		
		Current Total emails	387148		New Email cost	\$ 2,935.74			New Revenue	\$ 4,168,980.92		
		New Total emails	587148		Cost Increase	\$ 1,000.00			Increase	\$ 116,673.92		
									Increase%	2.879%		

Assumptions:

Limited budget increase of \$1000 towards number of emails sent

Max limit of 150 emails on average per customer

Results:

- 1

Increase in revenue by 2.87%

SUGGESTED MARKETING ACTIONS/STRATEGIES

Provide discount on elastic products and increase price on inelastic products based elasticity values for each segment

Increase average number of email sent

Based on Market basket analysis

- Bundle products in promotional offers such as coupons, weekly ads, etc
- Limit price discount to one product in a promotional bundle
- Place products with high "odds of purchase" in close physical proximity

SEGMENT SPECIFIC STRATEGIES

	Current Revenue	New Revenue	Discount (10%)	Email Increase
WELCOME BACK! SHOPPERS	\$ 655,832.66	\$ 709,093.93	UNALLOCATED FURNITURE PET SUPPLIES	95%
BITE THE DUST SHOPPERS	\$ 1,060,965.28	\$ 1,123,211.76	FURNITURE UNALLOCATED JUNIOR APPAREL PET SUPPLIES ACTIVE SHOES NIT PLUS APPAREL LAWN GARDEN NON MERCHANDISE ELECTRONIC SERVICE SCHOOL OFFICE SUPPLIES LICENSED SPORTS	76%
CASUAL SHOPPERS	\$ 1,264,457.72	\$ 1,361,562.94	LICENSED SPORTS PET SUPPLIES FURNITURE	55%
BITS OR PIECES SHOPPERS	\$ 1,462,596.79	\$ 1,562,782.89	FURNITURE UNALLOCATED LICENSED SPORTS PLUS APPAREL	0%

TEST AND LEARN PLAN

Increase price of inelastic products by 10%

Provide promotional discounts on elastic products by 10%

Increase average number of emails sent by 50%

Bundle products based on high "Odds of Purchase" from Market Basket Analysis

Potential increase in revenue \$797K i.e 19.68%

Potential increase in revenue without price increase \$505K i.e. 12.46%

Access to competitor pricing and profit margin can help optimize the test and learn for product specific promotional strategy for each segment

THANK YOU FOR SHOPPING WITH SHOPKO AND WE HOPE YOU HAVE WONDERFUL DAY!

