

Champion Behavioral Customer Segmentation Analysis



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Champion Brand Overview & Marketing Goals



Accelerating Champion's DTC Growth Through Customer Segmentation

BUSINESS SITUATION

- Champion, a leading sportswear brand, has historically relied on major retail partnerships for distribution.
- Following its acquisition by Authentic Brands Group, the brand is shifting focus toward strengthening its direct-to-consumer (DTC) business to enhance customer relationships and drive online growth.
- Champion leverages first-party data and customer segmentation to achieve this and personalize its marketing efforts

MARKETING OBJECTIVES

The primary marketing objectives of this segmentation analysis are to:

- Recognize & reward top customers to strengthen loyalty and retention.
- Encourage mid-tier buyers to increase purchase frequency and spending.
- Re-engage inactive customers through targeted incentives and personalized outreach.

ANALYSIS

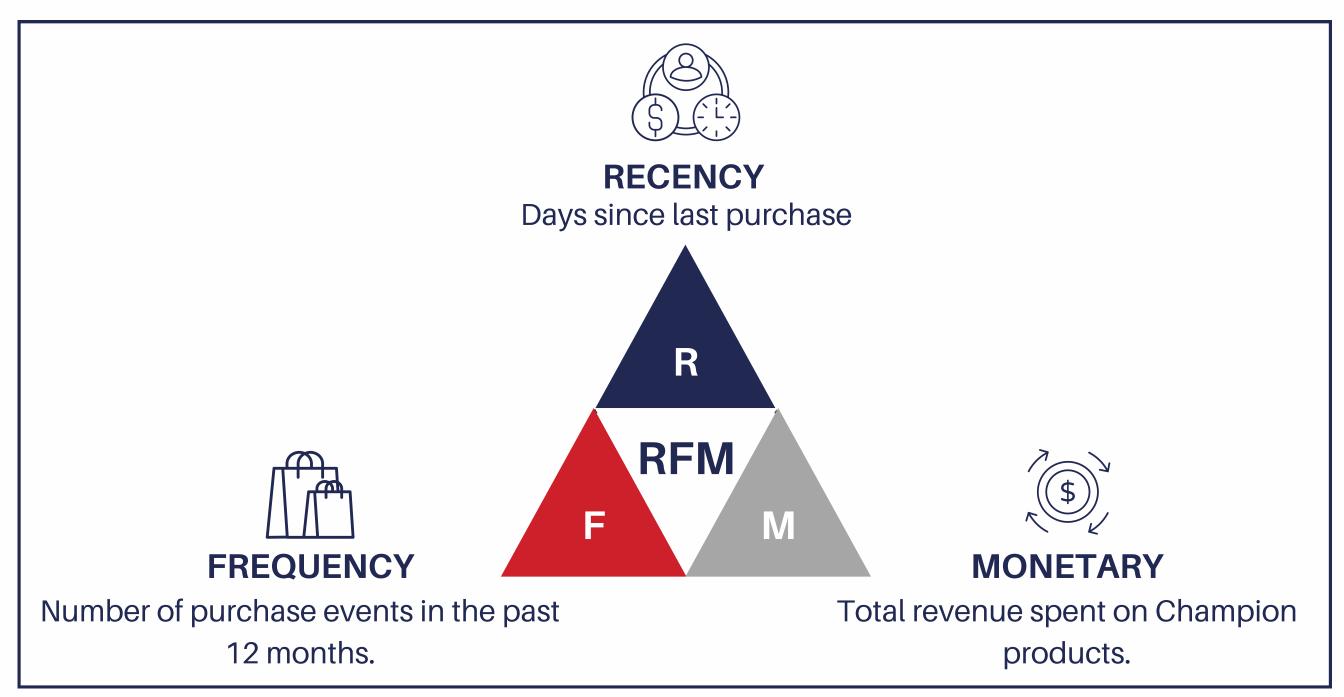
- This data-driven approach will guide strategic marketing decisions, CRM initiatives, and resource allocation, ensuring Champion maximizes its DTC potential while maintaining its retail presence.
- The analysis focuses on 20,907 U.S. customers who purchased exclusively through Champion's online channel in the past 12 months to optimize customer engagement strategies.

Segmentation Approach and SAS Techniques



Accelerating Champion's DTC Growth Through Customer Segmentation

Our analysis employed an RFM segmentation methodology to measure customer engagement & spending patterns:



Specific Segmentation and SAS Techniques



Step-by-Step RFM Segmentation Process in SAS

1. RANKING DATA TASK:

Customers were ranked using the quantile method across RFM variables, generating rank_recency, rank_frequency, and rank_monetary.

2. CREATING COMBINED RFM SCORES:

A combined RFM variable (combined_RFM) was generated by summing the ranked values.

3. INITIAL SUBGROUP ANALYSIS:

The dataset was divided into 8 subgroups based on combined RFM values, with summary statistics analyzed to identify patterns.

1. 3. ---- 5.

4. FINAL SEGMENTATION ASSIGNMENT:

The sub-groups were consolidated into 5 meaningful segments based on similarities in purchase behaviors.

5. SUMMARY STATISTICS TASK:

Key behavioral characteristics were examined for each segment, helping inform customer targeting strategies.



Champion Customer Segmentation Solution



Five Distinct Customer Behavior Patterns

Segment Name	Segment Description
VIP Champions	On average, customers in this segment generate the highest total revenue and make the most frequent purchases throughout the year.
Growth Opportunity	Customers in this segment have moderate spending and occasional purchases but show strong potential to become top buyers.
Newbies	This group consists of new or infrequent shoppers who have made only a few purchases and spent the least so far.
Win-Back	These customers were once valuable buyers but have reduced their spending and purchase activity over time.
Dormants	On average, customers in this segment have the lowest total revenue and have gone the longest time without making a purchase.

^{*}Segment boundaries were determined using statistical clustering with clear behavioral differentiation.

Champion Customer Segmentation Profiles



Distinct Shopping Behaviors and Opportunities for Growth

Profile Element	VIP Champions	Growth Opportunity	Newbies	Win-Back	Dormants
Recency (in days)	69	90	79	264	262
Frequency (last 12 months)	4.4	1.8	1.2	2.6	1.2
Monetary (last 12 months)	\$ 258.4	\$ 131.5	\$ 38.7	\$ 179.3	\$ 34.5
Avg. Items per Order	2	2	1	2	1
Avg. Revenue per Order	\$ 59.6	\$ 77.6	\$33.7	\$ 74.5	\$ 29.6
% Customers that Used a Promotional Offer	93.0%	52.5%	20.1%	63.9%	26.8%
Estimated Annual Retention Rate	82.0%	65.9%	56.0%	54.9%	35.8%

^{*}Values represent mean (average) figures across all customers in each segment based on 12-month purchase data.

^{*}Percentage values displayed in whole numbers. For example, 51% represents 0.51 in decimal format.

Champion Customer Segmentation Profiles



Distinct Shopping Behaviors and Opportunities for Growth

Profile Element	VIP Champions	Growth Opportunity	Newbies	Win-Back	Dormants
% Customers that only purchased women's products	45.3%	46.6%	48.0%	40.1%	35.1%
% Customers that only purchased men's products	32.6%	43.6%	48.6%	46.1%	61.6%
% Customers that purchased women's and men's products	19.6%	6.6%	0.3%	10.3%	2%
% Customers whose purchases included kids' products	2.4%	3.2%	3.1%	2.7%	1.3%

^{*}Values represent mean (average) figures across all customers in each segment based on 12-month purchase data.

^{*}Percentage values displayed in whole numbers. For example, 51% represents 0.51 in decimal format.

Customer Lifetime Value Analysis



Quantifying Long-Term Customer Value and Investment Priorities by Segment

Segments	VIP Champions	Growth Opportunity	Newbies	Win-Back	Dormants
Segment Proportion %	13.3 %	14.4 %	22.9 %	23.1 %	26.1%
Average Margin %	41 %	41 %	41 %	41 %	41 %
Discount Rate %	8 %	8 %	8 %	8 %	8 %
Estimated Annual Average revenue	\$258	\$131	\$39	\$179	\$34
Estimated Average contribution Margin	\$106	\$54	\$16	\$73	\$14
Estimated Annual Retention Rate (RR)	82 %	66 %	56 %	55 %	36 %
Estimated Customer Lifetime Value (CLV)	\$440	\$139	\$33	\$149	\$21

Sample size: 20,907 Average margin: 41%

Discount Rate: 8% Acquisition cost: \$0

Marketing Priorities & Recommendations by Segment



Targeted Engagement Strategies Based on Customer Value and Behavior

Segment Name	Strategic Marketing Priority	Specific Marketing Recommendations
VIP Champions	Premium Retention and Brand Loyalty Maximization (High CLV)	 Launch an exclusive "Champion Circle" loyalty program, granting members 48-hour early product access, free overnight shipping, limited-edition Champion x Pro-Athlete collaborations upon reaching a \$450 annual spend. Create an Instagram/Facebook "VIP Style Challenge" campaign featuring customer-generated content with personalized quarterly digital lookbooks highlighting cross-category styling options.
Growth Opportunity	Increase Purchase Frequency & Basket Size Expansion (Medium CLV)	 Implement a "Complete Your Look" system with progressive discounts when purchasing across multiple product categories (10% for 2 categories, 25% for 3+) at \$50 quarterly spend, with flexible payment options. Launch a web-based tool that allows customers to visualize complete Champion looks across categories and incorporate a "one-click add to cart" feature that seamlessly transfers all configured items to checkout; promote the configurator through Email, SMS, paid social with embedded second-purchase discount code.
Newbies	Purchase Habit Formation & Lifetime Value Acceleration (Low CLV)	 Develop product bundles at accessible price points (\$45-65) that introduce customers to the brand's core styles. Include a sustainability impact card with each order showing the environmental benefits of their purchase. Offer a risk-free trial experience with extended 60-day returns, personalized quality guarantee cards, and a 30-day survey providing 10% discounts on next orders.
Win-Back	High-value Customer Recovery/Re-engagement (Medium CLV)	 Launch a win-back series with personalized SMS/emails containing a time-limited 30% "Welcome Back" offer and free shipping on their next purchase. (About 64% use promotional offers). Implement a "try before you decide" option that allows customers to order up to 3 items with delayed payment.
Dormants	Cost Efficiency Reactivation (Low CLV)	 Create a men's-focused "Last Call" campaign with 45-day limited window offering 40-50% discounts on performance items targeted to previous men's-only purchasers. Offer a 45% discount for completing an exit survey that identifies why they stopped shopping with Champion.

Budget Allocation Across Customer Segments



Strategic Investment Distribution to Maximize Return Across Customer Segments

Segment Name	% of Customers	% of Budget	Average CLV	Budget Allocation Reasoning
VIP Champions	13.3%	40%	\$440	 Maximize Retention and Strengthen Brand Advocacy Highest revenue generators and the most engaged customers
Growth Opportunity	14.4%	35%	\$139	 Moderate spenders with high growth potential Drive higher purchase frequency Respond well to bundling discounts and eco-friendly initiatives
Newbies	22.9%	5%	\$33	 Convert First-Time Buyers into Repeat Customers Lowest spending segment but has potential for long-term growth Needs education on the brand and product benefits
Win-Back	23.1%	15%	\$149	 Re-engage Former High-Value Customers Once spent significantly but have since reduced engagement The focus is on personalized reactivation offers
Dormants	26.1%	5%	\$21	 Cost-Efficient Reactivation & Clearance Sales Low engagement, low retention rates and lowest ROI Minimized investment with high-discount tactics

Appendix



Optimization Model for Budget Allocation

Sequential Least Squares Programming (SLSQP) Constrained Nonlinear Optimization Model

Retention Cost

Estimated Retention Costs	Based on Industry Trends & Segment Behavior
Segment	Retention Cost (\$) Estimate
VIP Champions	\$20
Growth Opportunity	\$40
Newbies	\$80
Win-Back	\$60
Dormants	\$100

Formulas

Retention Cost = Marketing Cost per Customer+Incentives/Discounts

Retention Rate = Total Customers at Start of Period ×100
Active Customers at End of Period

 $\max_{i=1}^{5} ((CLV_i - RetentionCost_i) \times RetentionRate_i \times BudgetAlloc_i)$

Final Model and Budget Allocation

Segment	CLV (\$)	Retention Rate (%)	Segment Proportion (%)	Annual Revenue (\$)	Contribution Margin (\$)	Retention Cost (\$)	Optimized Budget Allocation (%)
VIP Champions	440	82.00	13.30	258	106	20	40
Growth Opportunity	139	66.00	14.40	131	54	40	35
Newbies	33	56.00	22.90	39	16	80	5
Win-Back	149	55.00	23.10	179	73	60	15
Dormants	21	36.00	26.10	34	14	100	5

Appendix



Code for Segmentation

```
*Program 1 ×
         LOG
                RESULTS
CODE
      1 data work.RFM2; /*output dataset name for assignment 2*/
 2 set work. RFM1; /*input dataset name*/
 4 /*new variable containing the final RFM segment assignments*/
  length segment assignment $30.;
  /*The code below is used to assign each unique combined RFM value into a final segment assignment*/
   /*each line should include 1 or more mutually exclusive combined RFM values*/
10 | if combined_RFM in ('011') then segment _assignment = 'Segment 1 - VIP Champions';
11 if combined RFM in ('001','010') then segment assignment = 'Segment 2 - Growth Opportunity';
12 if combined RFM in ('000') then segment assignment = 'Segment 3 - Newbies';
13 if combined RFM in ('101','111') then segment assignment = 'Segment 4 - Win-Back';
14 if combined RFM in ('100','110') then segment assignment = 'Segment 5 - Dormants';
15 run;
```

Appendix

Champion

Summary Statistics

segment_assignment	Obs	Variable	Label	Mean	Std Dev	Minimum	Maximum	Median	
Segment 1 - VIP Champions	2784	recency frequency monetary average_items_per_order average_revenue_per_order product_womens_only product_mens_only product_womens_mens product_kids_included offer_indicator retention_score	Number of days since last Champion product purchase Number of different Champion purchase events in last 12 months Total revenue on Champion products in last 12 months Average # of Champion products purchased per purchase event Average \$ revenue on Champion products per purchase event Purchased only 1 or more womens products in the last 12 months Purchased only 1 or more mens products in the last 12 months Purchased 1 or more womens and mens products in the last 12 months Purchases included 1 or more kids products in the last 12 months Used a promotional offer to purchase a product in the last year Estimated annual retention of customer	69.6422414 4.3588362 258.4258369 2.0790230 59.5908764 0.4533046 0.3261494 0.1964799 0.0240661 0.9295977 0.8204562	47.5299163 1.7346962 155.4326790 1.2448406 29.7690295 0.4979042 0.4688669 0.3974069 0.1532819 0.2558698 0.0710845	1.0000000 3.0000000 73.3300000 1.0000000 0 0 0 0 0 0 0.70000000	176.000000 12.000000 871.170000 8.000000 207.000000 1.000000 1.000000 1.000000 1.000000 0.9500000	64.000000 4.000000 214.3650000 2.0000000 54.0000000 0 0 0 1.0000000 0.8000000	278 278 278 278 278 278 278 278 278
Segment 2 - Growth Opportuniti	3005	recency frequency monetary average_items_per_order average_revenue_per_order product_womens_only product_mens_only product_womens_mens product_kids_included offer_indicator retention_score	Number of days since last Champion product purchase Number of different Champion purchase events in last 12 months Total revenue on Champion products in last 12 months Average # of Champion products purchased per purchase event Average \$ revenue on Champion products per purchase event Purchased only 1 or more womens products in the last 12 months Purchased only 1 or more mens products in the last 12 months Purchased 1 or more womens and mens products in the last 12 months Purchased 1 or more womens and mens products in the last 12 months Purchased 1 or more womens and mens products in the last 12 months Purchased 1 or more womens and mens products in the last 12 months Purchased 1 or more womens and mens products in the last 12 months Used a promotional offer to purchase a product in the last year Estimated annual retention of customer	90.4439268 1.8432612 131.5435774 2.5554077 77.6063228 0.4662230 0.4359401 0.0658902 0.03119468 0.5247920 0.6589018	50.6141437 0.5603333 67.4511365 2.2779573 42.7383396 0.4989408 0.4959619 0.2481313 0.1758876 0.4994681 0.0950845	1.0000000 1.0000000 22.5700000 1.0000000 0 0 0 0 0 0.4500000	176.0000000 5.0000000 503.3200000 22.0000000 290.0000000 1.0000000 1.0000000 1.0000000 0.9000000	92.0000000 2.0000000 116.5300000 2.0000000 0 0 0 1.0000000 0.70000000	300 300 300 300 300 300 300 300 300
Segment 3 - NewCommers	4794	recency frequency monetary average_items_per_order average_revenue_per_order product_womens_only product_mens_only product_womens_mens product_kids_included offer_indicator retention_score	Number of days since last Champion product purchase Number of different Champion purchase events in last 12 months Total revenue on Champion products in last 12 months Average # of Champion products purchased per purchase event Average \$ revenue on Champion products per purchase event Purchased only 1 or more womens products in the last 12 months	79.4966625 1.1916980 38.7128828 1.3135169 33.6666667 0.4799750 0.4860242 0.0031289 0.0308719 0.2058824 0.5603671	51.3678707 0.3936778 17.7618915 0.7239148 16.1493999 0.4996510 0.4998568 0.0558549 0.729887 0.4043871 0.0957034	1.0000000 1.0000000 5.6500000 1.0000000 6.0000000 0 0 0 0 0.4500000	176.0000000 2.0000000 70.9500000 5.0000000 71.0000000 1.0000000 1.0000000 1.0000000 1.0000000 0.7500000	71.000000 1.000000 39.4600000 1.0000000 31.0000000 0 0 0 0 0.60000000	479 479 479 479 479 479 479 479 479

segment assignment	N Obs	Variable	Label	Mean	Std Dev	Minimum	Maximum	Median	N
			Purchased only 1 or more mens products in the last 12 months Purchased 1 or more womens and mens products in the last 12 months Purchases included 1 or more kids products in the last 12 months Used a promotional offer to purchase a product in the last year Estimated annual retention of customer						
Segment 4 - Win-Back Prospects	4827	recency frequency monetary average_items_per_order average_revenue_per_order product_womens_only product_mens_only product_womens_mens product_kids_included offer_indicator retention_score	Number of days since last Champion product purchase Number of different Champion purchase events in last 12 months Total revenue on Champion products in last 12 months Average # of Champion products purchased per purchase event Average \$ revenue on Champion products per purchase event Purchased only 1 or more womens products in the last 12 months Purchased only 1 or more mens products in the last 12 months Purchased 1 or more womens and mens products in the last 12 months Purchases included 1 or more kids products in the last 12 months Used a promotional offer to purchase a product in the last year Estimated annual retention of customer	264.6289621 2.6123886 179.3280899 2.3722809 74.4476901 0.4087425 0.4611560 0.1029625 0.0271390 0.6389062 0.5496167	50.5128249 1.4664206 127.0288491 1.5189104 40.5966727 0.4916525 0.4985405 0.3039414 0.1625052 0.4803674 0.1273977	183.000000 1.000000 71.050000 1.000000 24.000000 0 0 0 0 0 0.2500000	365.000000 18.000000 981.480000 10.000000 326.000000 1.000000 1.000000 1.000000 1.000000 0.800000	253.000000 2.000000 138.330000 2.000000 64.000000 0 0 1.0000000 0.5500000	4827 4827 4827 4827 4827 4827 4827 4827
Segment 5 - Dormant Customers	5497	recency frequency monetary average_items_per_order average_revenue_per_order product_womens_only product_womens_mens product_kids_included offer_indicator retention_score	Number of days since last Champion product purchase Number of different Champion purchase events in last 12 months Total revenue on Champion products in last 12 months Average # of Champion products purchased per purchase event Average \$ revenue on Champion products per purchase event Purchased only 1 or more womens products in the last 12 months Purchased only 1 or more mens products in the last 12 months Purchased 1 or more womens and mens products in the last 12 months Purchases included 1 or more kids products in the last 12 months Used a promotional offer to purchase a product in the last year Estimated annual retention of customer	262.1673640 1.2263053 34.5311679 1.251773 29.6005094 0.3507368 0.6163362 0.0198290 0.0130981 0.2685101 0.3576314	48.4761868 0.5004504 17.2888673 0.5974146 15.4128928 0.4772441 0.4863218 0.1394251 0.1137051 0.4432247 0.1110829	183.0000000 1.0000000 4.2400000 1.0000000 4.0000000 0 0 0 0 0 0 0.25000000	365.000000 5.000000 70.9500000 4.0000000 1.0000000 1.0000000 1.0000000 1.0000000 1.0000000 0.75000000	246.000000 1.000000 34.120000 26.000000 0 1.000000 0 0 0.3000000	5497 5497 5497 5497 5497 5497 5497 5497