A look back:

Two Years of Worldwide Sales







Background:

Worldwide Provisioner Of Fine Foods



- 77 products, 8 Categories
- 9 Sales Staff serving 9 Regions Globally

Sales from April 2012 – June 2014

- Discounts
- Sales Staff
- Sales by Category
- Regional Sales

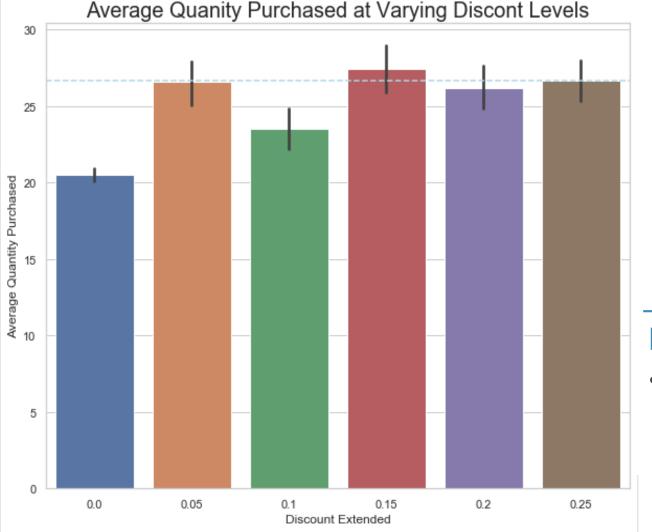
Discounts:

Question:

Does discount amount have a statistically significant effect on the quantity of a product in an order?

AND:

If so, at what level(s) of discount(s)?



Answer:

Yes, these levels:

Statistically Equal

Discount	AvQty	Effect Size	Effect
5 %	27	.1982	Small
15 %	27	.454	Medium
20 %	26	.3751	Medium
25 %	27	.454	Medium
P-Value of .	001 in co	omparison to r	no discount

Recommendation:

 Since the effects of higher discounts are equal to lower, offer the lower discounts more frequently to preserve profit margins.

Sales Staff:

Question:

Do certain sales representatives generate more revenue than others?

AND:

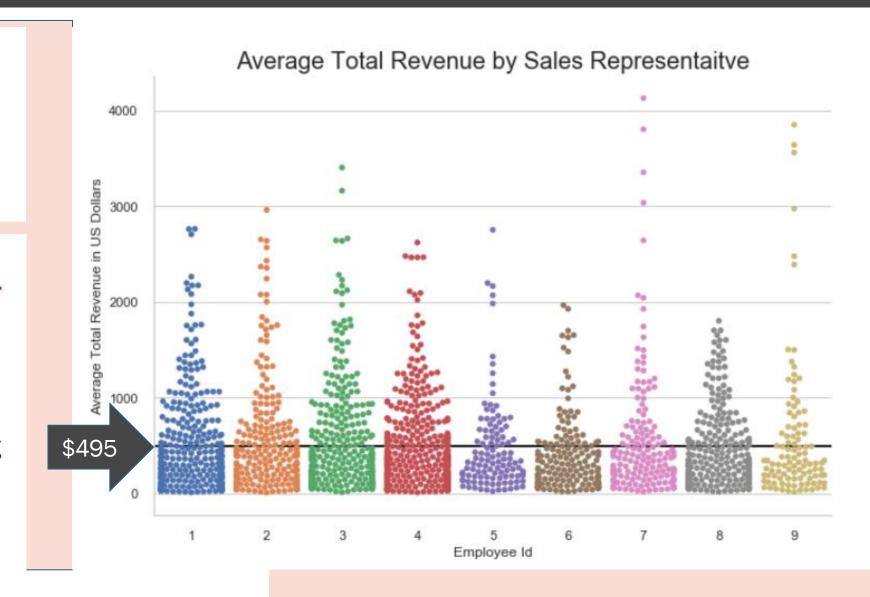
Who are the top sellers?

Answer:

All sales staff, regardless of location or title statistically generate equal revenue.

Recommendation:

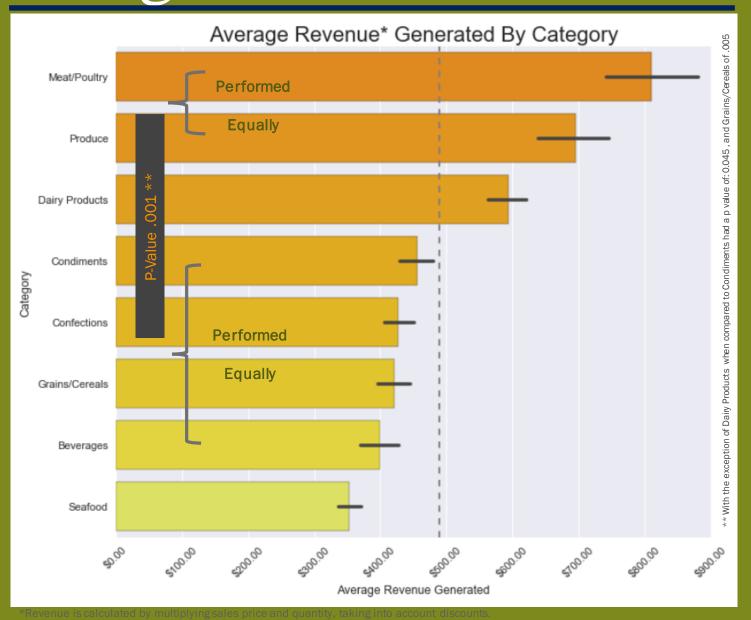
- Incentivized competition might spur increased revenues.
- Build on knowledge of smaller discounts achieving larger quantities.
- Develop regional markets (via analysis - future work?)



Categories:

Question:

Do some product categories generate more revenue than others?

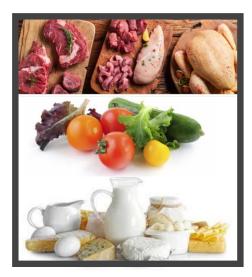


Answer:

Yes.

The top three are:

- Meat/Poultry
- Produce &
- Dairy



Recommendations:

- Maximize revenues with additional products that align with the higher revenue generating categories.
- Minimize product offerings in lesser generating categories
- Extend discounts accordingly.

Region:

Question:

Do certain sales representatives generate more revenue than others?

AND:

Who are the top performers?

Answer:

Yes. The top three are:

Western Europe, North America

.... and

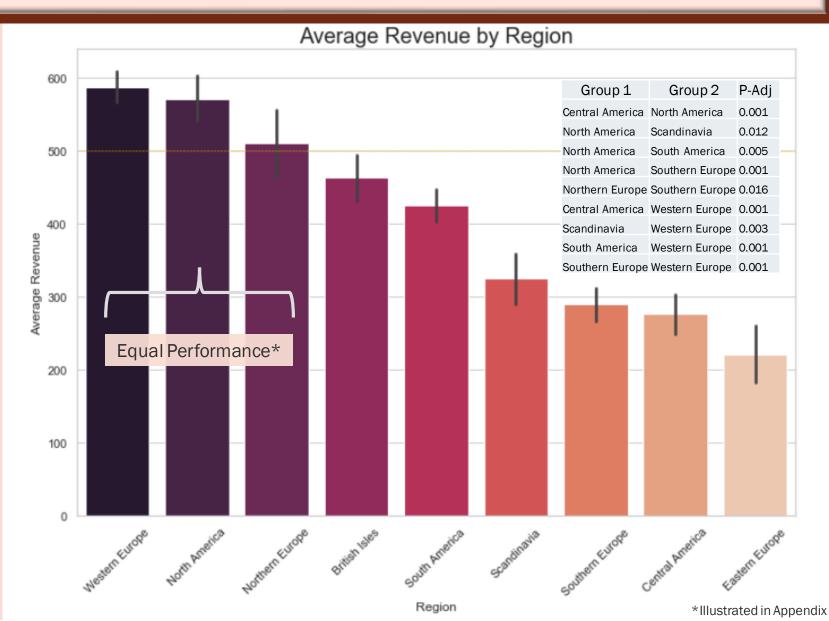
Northern Europe

P Value < .05 indicates a statistical difference

Small sample sizes from Eastern Europe, Scandinavia, Central America*

Recommendation:

- Explore best practices from regions that are top performers.
- Market analysis for regions that need to be developed. Eg. Categories, discounts, sales relationships





Looking Forward:

Maximize Revenues

- Minimize discounts
- Focus on Revenue Generating Categories
- Develop Sales Staff, Underdeveloped Regions

Future Work:

- Market analysis for regions that need to be developed.
 - Eg. Regional category refinement, discount types and frequency, sales relationships







Thank You.











Appendix:



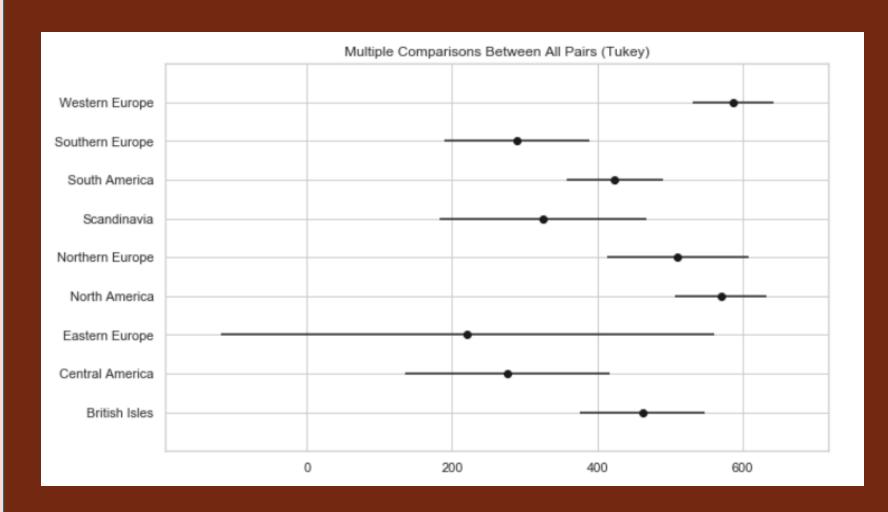
Region:

Appendix materials

Illustrates the difference in confidence intervals of Tukey test. Some regions that visibly look like they out perform others

N. & W. Europe, N. America Statistically Equal Performance

Region 1	Region 2	Adj P
North America	Northern Europe	0.9000
North America	Western Europe	0.9000
Northern Europe	Western Europe	0.7992



Categories:

Appendix Materials:

Group 1	Group 2	Adj-P	Effect	
Beverages	Dairy Products	0.001	0.352	_
Condiments	Dairy Products	0.045	0.277	Rej
Confections	Dairy Products	0.001	0.341	je
Dairy Products	Grains/Cereals	0.005	0.350	ject
Beverages	Meat/Poultry	0.001	0.596	Z
Condiments	Meat/Poultry	0.001	0.517	⊑
Confections	Meat/Poultry	0.001	0.600	I
Dairy Products	Meat/Poultry	0.001	0.311	4
Grains/Cereals	Meat/Poultry	0.001	0.564	Ŏ
Beverages	Produce	0.001	0.521	thesi
Condiments	Produce	0.001	0.490	<u>88</u>
Confections	Produce	0.001	0.560	လ
Grains/Cereals	Produce	0.001	0.571	7
Dairy Products	Seafood	0.001	0.525	en.
Meat/Poultry	Seafood	0.001	0.755	(D
Produce	Seafood	0.001	0.798	

Group 1	Group 2	MeanDiff	Adj-P	
Beverages	Condiments	55.7712	0.9	Re
Beverages	Confections	27.0669	0.9	
Beverages	Grains/Cereals	21.4034	0.9	ect N
Beverages	Seafood	-46.1557	0.9	<u>u</u>
Condiments	Confections	-28.7043	0.9	王
Condiments	Grains/Cereals	-34.3678	0.9	ð
Condiments	Seafood	-101.927	0.3439	<u>¥</u>
Confections	Grains/Cereals	-5.6635	0.9	es i
Confections	Seafood	-73.2226	0.6099	s: F
Dairy Products	Produce	102.0142	0.5181	als:
Grains/Cereals	Seafood	-67.5591	0.831	se e
Meat/Poultry	Produce	-114.9365	0.5359	

