Visual Analytics_Assignment3

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Overview

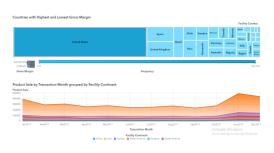
Task 2

Visualisations are created to summarise the gross margin in the year 2017. Summarise the Product Sales and Gross Margin based on Facility Continent and Country. Determined country which represents the highest and the Lowest Gross Margin. Hence, we can see that United States have the highest gross margin i.e. 533066.85 and India has the lowest which is 2086.85. Also represented the Product sales over time across all Facility Continents in the year 2017.

Task 3

Interactive visualisations to explore customer satisfaction and product is been represented. Using the geo-map to compare the Product Sales from facilities across Continents, Countries, Regions, and Cities in form of geo hierarchy also included the Average Customer Satisfaction for each facility's products in the geo-map. based on city depicted Product Sales over time in 2017.







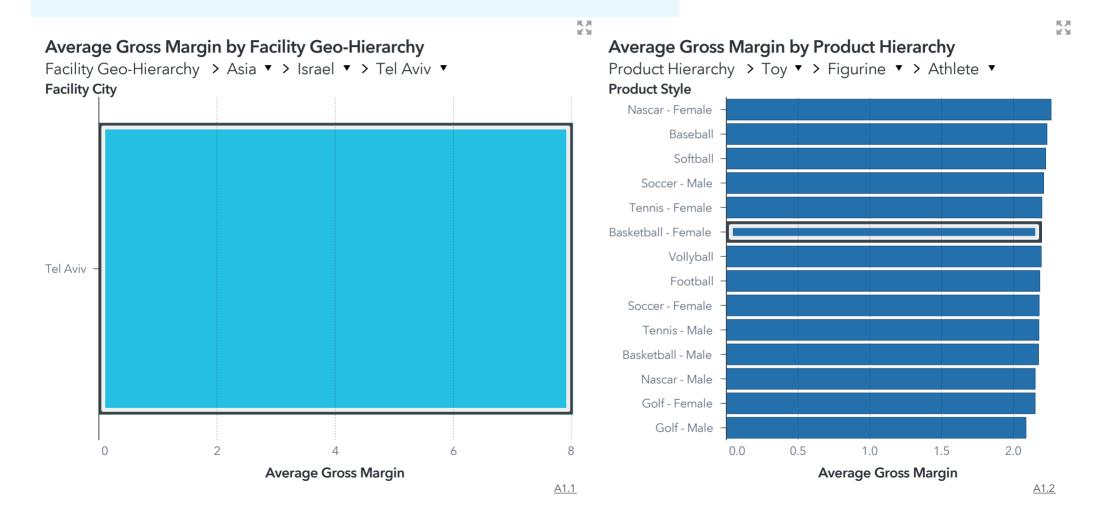


Task 4

Interactive visualisation to assist the global production manager in determining the relationships between facility attributes and customer satisfaction. Compared the Average Customer Satisfaction with products from each country. In addition, visualisations were built to demonstrate the correlations between Customer Satisfaction and Customer Distance, as well as the distribution of Customer Distance and the Average Customer Distance across time in 2017.

Task 1

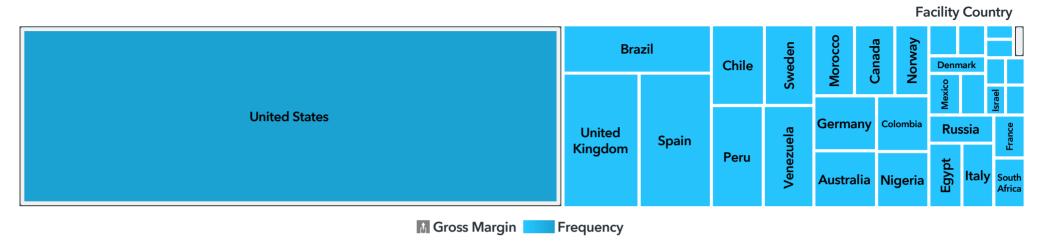
- I	- 1		
Product Sale	Product Cost of Sale	Gross Margin	Average Gross Margin 🔺
6284652	5299400	985,252.00	3.91



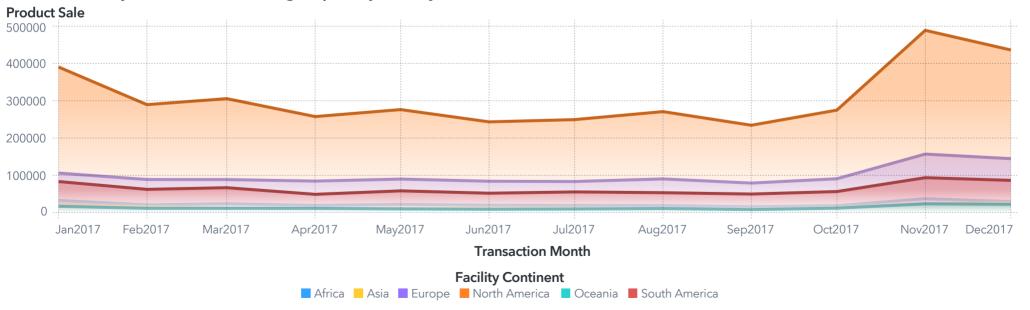
Task 2.1

Facility Continent	▲ Facility Country ▲	Product Sale	Gross Margin
	Egypt	65555	11,423.88
Africa	Morocco	79928	15,408.48
Africa	Nigeria	83638	15,714.17
	South Africa	48487	8,379.01
	China	15021	2,897.57
	India	12009	2,086.85
	Indonesia	15620	3,154.69
	Israel	16560	3,183.44
Asia	Japan	27988	4,781.96
	Russia	47402	9,760.41
	Saudi Arabia	12090	2,156.35
	Singapore	14618	2,748.67
	South Korea	15349	2,867.66
	Denmark	34446	5,339.58
	France	43673	7,224.63
	Germany	128604	18,403.16
F	Italy	68345	10,974.66
Europe	Norway	85061	12,931.56
	Spain	337595	52,000.29
	Sweden	137579	21,379.61
	United Kingdom	352500	54,786.43
	Canada	106603	15,328.55
North America	Mexico	41324	7,031.44

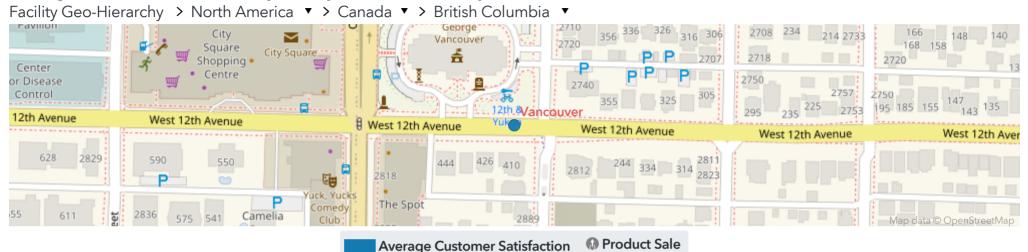
Countries with Highest and Lowest Gross Margin



Product Sale by Transaction Month grouped by Facility Continent



Average Customer Satisfaction by Facility Continent sized by Product Sale



A2.1

Product Sale by Transaction Month grouped by Facility City



P A2.2

Task 4

Africa	Asia	Europe	North America	Oceania	South America
					₹ A3.1

Average Customer Satisfaction by Facility Country grouped by Facility

Facility Country

Australia

New Zealand

20%

Facility

Average Customer Satisfaction

AUMELBOU0140 AUPERTH.0141

30%

40%

Correlation of Selected Measures



₽ <u>A3.2</u>

50%

Customer Distance by Facility Country

10%

AUSYDNEY0142 NZAUCKLA0143

0%







Facility Country

Australia

<u>₹ A3.4</u>

Appendix

Δ11	Average	Gross	Margin	by Fac	~ilitv/	Geo-Hier	archv

Drill Levels: Facility Geo-Hierarchy: Asia → Israel → Tel Aviv

A1.2 Average Gross Margin by Product Hierarchy

Drill Levels: Product Hierarchy: Toy → Figurine → Athlete

A2.1 Average Customer Satisfaction by Facility Continent sized by Product Sale

Drill Levels: Facility Geo-Hierarchy: North America → Canada → British Columbia

A2.2 Product Sale by Transaction Month grouped by Facility City

Filters: (Facility Continent = 'North America') AND (Facility Country = 'Canada') AND (Facility Region = 'British Columbia')

A3.1 Button bar - Facility Continent 1

Filters: Facility Country In(ALL)

Facility In(ALL)

A3.2 Average Customer Satisfaction by Facility Country grouped by Facility

Filters: Facility Continent In(ALL)

Facility Continent = 'Oceania'

A3.3 Correlation of Selected Measures

Filters: Facility Country In(ALL)

Facility Continent = 'Oceania'

(Facility Country = 'Australia') AND (Facility = 'AUMELBOU0140')

A3.4 Customer Distance by Facility Country

Filters: Facility Country In(ALL)

Facility Continent = 'Oceania'

(Facility Country = 'Australia') AND (Facility = 'AUMELBOU0140')

<u>A3.5</u> Average Customer Distance by Transaction Date grouped by Facility Country

Filters: Facility Continent = 'Oceania'

(Facility Country = 'Australia') AND (Facility = 'AUMELBOU0140')

Facility Geo-Hierarchy > Asia ▼ > Israel ▼ > Tel Aviv ▼		NK NK
Facility City	A	Average Gross Margin ▼

Bar - Facility Geo-Hierarchy 1 Supplement 1

Soccer - Male

Vollyball Football

Tennis - Female

Soccer - Female

Golf - Female

Golf - Male

Basketball - Female

Product Style	Average Gross Margin	in ▼
Nascar - Female		2.26
Baseball		2.23
Softball		2.23

XK

2.21

2.20 2.20

2.19

2.18

2.18

2.18 2.18

2.15

2.15

2.09

Tennis - Male Basketball - Male

Product Hierarchy > Toy ▼ > Figurine ▼ > Athlete ▼

Nascar - Male

Facility Country	Gross Margin	Frequency
Argentina	4,654.64	556
Australia	19,072.50	5,005
Brazil	38,408.15	4,891
Canada	15,328.55	4,580
Chile	22,884.63	3,024
China	2,897.57	374
Colombia	15,599.46	2,234
Denmark	5,339.58	1,405
Egypt	11,423.88	1,626
France	7,224.63	1,728
Germany	18,403.16	5,552
India	2,086.85	349
Indonesia	3,154.69	377
Israel	3,183.44	397
Italy	10,974.66	2,734
Japan	4,781.96	776
Mexico	7,031.44	3,212
Morocco	15,408.48	1,977
New Zealand	5,591.05	1,146
Nigeria	15,714.17	2,286
Norway	12,931.56	3,205
Peru	28,344.22	3,906
Russia	9,760.41	1,171
Saudi Arabia	2,156.35	317
Singapore	2,748.67	386
South Africa	8,379.01	1,262
South Korea	2,867.66	386
Spain	52,000.29	13,486
Sweden	21,379.61	5,899
United Kingdom	54,786.43	13,920
United States	533,066.85	159,740
Venezuela	27,667.45	4,169

ime - Transaction Month 2 Supplement 1 Transaction Month	Product Sale	Facility Continent
Jan2017	32542	-
Feb2017	20932	
Mar2017	23654	
Apr2017	19447	
May2017	21855	
Jun2017	19702	Africa
Jul2017	19177	Africa
Aug2017	18985	Africa
Sep2017	15914	Africa
Oct2017	18527	
Nov2017	37192	
Dec2017	29682	
Jan2017	22311	Asia
Feb2017	15440	Asia
Mar2017	11906	Asia
Apr2017	10587	Asia
May2017	11303	
Jun2017	11486	
Jul2017	11351	
Aug2017	10323	
Sep2017	8852	Asia
Oct2017	13143	Asia
Nov2017	23330	Asia
Dec2017	26627	
Jan2017	106091	
Feb2017		Europe
Mar2017		Europe
Apr2017	84520	Europe
May2017	89987	Europe
Jun2017	84160	Europe
Jul2017		Europe
Aug2017		Europe
Sep2017		Europe
Oct2017		Europe
Nov2017	157002	Europe
Dec2017	144712	Europe
Jan2017	390530	North America
Feb2017	289605	North America
Mar2017	305730	North America
Apr2017		North America
•		North America
May2017		
Jun2017		North America
Jul2017	249456	North America
Aug2017	270901	North America
Sep2017	234344	North America
Oct2017	274870	North America
Nov2017		North America
Dec2017		North America
Jan2017		Oceania
Feb2017		Oceania
Mar2017	11526	Oceania
Apr2017	11528	Oceania
May2017	9855	Oceania
Jun2017	8999	Oceania
Jul2017		Oceania
Aug2017		Oceania
Sep2017		Oceania
Oct2017		Oceania
Nov2017	23568	Oceania
Dec2017	22109	Oceania
Jan2017	83322	South America
Feb2017		South America
Mar2017		South America
Apr2017		South America
May2017		South America
Jun2017	52056	South America
Jul2017	55551	South America
Aug2017	53461	South America
Sep2017		South America
Oct2017		South America
Nov2017	93/04	South America
Dec2017		South America

Facility City	Product Sale	Average Customer Satisfaction
Facility Geo-Hierarchy > North America ▼ >	Canada ▼ > British Columbia ▼	NK NK
coo coordinate in demay coordinately 2 cappionient		

66092

Facility City Product Sale

Geo coordinate - Facility Geo-Hierarchy 2 Supplement 1

Vancouver

Jun2017

Jul2017

Aug2017

Sep2017

Oct2017

Nov2017

Dec2017

Transaction Month	Product Sale	Facility City
Jan2017	7048	Vancouver
Feb2017	6035	Vancouver
Mar2017	4570	Vancouver
Apr2017	5080	Vancouver
May2017	4891	Vancouver

3473 Vancouver

4681 Vancouver

3844 Vancouver

5680 Vancouver

3153 Vancouver

10211 Vancouver

7426 Vancouver

Facility Country

Australia

Australia

Australia

Australia

New Zealand

Bar - Facility Country 1 Supplement 1

Average Customer Satisfaction ▼ Facility

47% AUBRISBA0139

45% NZAUCKLA0143

43% AUPERTH.0141

43% AUMELBOU0140

41% AUSYDNEY0142





XX

constant customer cultivation i cuppionione i		
X Axis	Y Axis	Correlation

Customer Distance

Correlation - Customer Satisfaction 1 Supplement 1

Customer Satisfaction

Box - Facility Country 1 Supplement 1

Facility Country

Minimum Lower Whisker First Quartile Average Median Third Quartile Upper Whisker Maximum Std Dev Country

Std Dev Country

Australia

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