Foundations of Data Management

Final Project



Prepared by:

Group 07

Student Names

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Project 1.a:

Use the DAMA Wheel to identify four Data Governance sub-domains applicable to your project

While analyzing the data, the following Data Governance sub-domains are applicable for our project:

- **Data Architecture:** We analyzed the data during the lab exercise 1 and created a rough draft for our architecture.
- **Data Modelling and Design:** During lab exercise 2, after deciding on the data architecture, we started designing the entity relations diagrams for the "gbc_Superstore" schema.
- Data Storage and Operations: After modelling and designing of the ERD during lab exercise 2, we forward engineered and created the schema based on the ERD. After this, we extracted the data from the flat files, transformed them to the desired form and loaded them to the "gbc superstore" schema using an automated ETL python script.
- **Data Quality:** During the entire process the quality of the data was maintained throughout starting from pre-processing of the flat files to testing the quality of the reports including verifying the data loaded in the database post the ETL load by the automated python script.

Project 1.b

Define two Data Governance policies for each identified sub-domain to enforce oversight of a reporting process. The objective is to achieve a well-controlled, transparent, efficient, and quality-driven activity

The Data Governance policies identified for each sub-domain are as follows:

Data Architecture

- ➤ The data architecture should be defined in such a way to minimize the data redundancy.
- The data should be normalized to atleast second normalization form (2-NF).

Data Modelling and Design

- All the entities should be interlinked within the entity relationship diagram. No node should be left orphaned.
- The data should not have any composite keys i.e., two or more attributes should not make a primary key for the tables.

• Data Storage and Operations

- ➤ Data should not get corrupted during the ETL process. The chances of corruption should be minimized by writing optimal ETL process.
- > DQL queries should be written and executed in such a way to minimize the time complexity of the loading process.

Data Quality

- ➤ The flat files should be inspected properly to avoid any issues that can occur later during the ETL process.
- > The data should be audited regularly especially after the ETL pipeline execution to maintain data quality of the database.

Project 1.c

Elaborate on how you have applied theory into practice. Explain the policies along with the corresponding procedures that you would implement, under which you will generate reports on an ongoing basis.

The data was initially analyzed to check any issues with the flat files. The data architecture was designed in a way that minimizes data redundancy.

The Entity-Relationship Diagrams are designed in such a way so that the second normalization form (2-NF) can be achieved. In 2-NF, the data doesn't have any data redundancy and the tables are defined using the primary key and the foreign key relations. The Foreign Key for the tables is designed in such a way so that data cannot be corrupted to maintain its data quality.

Prior to the ETL process, data was cleaned so that the ETL script can load the data into the database will all the polices defined to maintain its quality. ETL was designed in a way that neither causes data leak or data corruption. It maintains the integrity of primary and secondary key relations by inserting the data into the entities that doesn't have any foreign keys and then later into the other entities which have foreign keys related to the primary keys. For example, the data is first inserted into the "Country" table followed by "Region" table, "State" table and "City" table.

After the data was loaded with the ETL python script, it was validated manually to validate its quality. We iterated through this process again and again and took it up as a war room scenario and data was reloaded after making amends to the ETL scripts and re-validated to maintain the integrity of the data.

We created 2 stored procedures which can be utilized to generate the Operational and Executive Reports automatically for a given period of time, be it a decade, year or a quarter by just passing the start and the end date time of the same. This gave us the power to seamlessly produce reports in no time with a high degree of correctness and data integrity.

Operational Report

Operational Report for Q1 2020

Region	State	City	Segment	Category	Sub- Category	Product Name	Quanti ty Sold	Sales (\$)	Average Discount	Profit (\$)
		Chicago	Consumer	Furniture	Chairs	Global Airflow Leather Mesh Back Chair, Black	5	528.43	0.3	0
		Chicago	Consumer	Furniture	Furnishings	Eldon Cleatmat Plus Chair Mats for High Pile Carpets	5	159.04	0.6	-194.824
		Chicago	Consumer	Furniture	Tables	Bevis Rectangular Conference Tables	2	145.98	0.5	-99.2664
		Chicago	Consumer	Office Supplies	Appliances	Commercial WindTunnel Clean Air Upright Vacuum, Replacement Belts, Filtration Bags	3	2.334	0.8	-6.3018
		Chicago	Consumer	Office Supplies	Art	Newell 33	3	13.392	0.2	1.5066
		Chicago	Consumer	Office Supplies Office	Binders	Avery Durable Slant Ring Binders	2	3.168	0.8	-4.752
		Chicago	Consumer	Supplies	Binders	Peel & Stick Add-On Corner Pockets	4	1.728	0.8	-2.7648
		Chicago	Corporate	Furniture	Chairs	Global Stack Chair with Arms, Black	3	62.958	0.3	-2.6982
	Illinois	Chicago	Corporate	Office Supplies	Appliances	Honeywell Enviracaire Portable Air Cleaner for up to 8 x 10 Room	6	92.064	0.8	-225.5568
		Chicago	Corporate	Office Supplies	Fasteners	Advantus Push Pins	4	6.976	0.2	1.8312
		Chicago	Corporate	Office Supplies Office	Paper	Xerox 1943	4	156.512	0.2	52.8228
		Chicago	Corporate	Supplies	Paper	Xerox 206	1	5.184	0.2	1.8144
Central		Chicago	Home Office	Furniture	Chairs	Global Leather Highback Executive Chair with Pneumatic Height Adjustment, Black	6	844.116	0.3	-36.1764
	Illinois Sub Tota	Chicago	Home Office	Office Supplies	Paper	Computer Printout Paper with Letter-Trim Perforations	3	45.528	0.2	15.9348
		Chicago	Home Office	Technology	Phones	Jabra BIZ 2300 Duo QD Duo Corded Headset	8	812.736	0.2	60.9552
		Evanston	Consumer	Technology	Phones	Belkin iPhone and iPad Lightning Cable	1	11.992	0.2	0.8994
		Rockford	Consumer	Furniture	Tables	Bretford "Just In Time" Height-Adjustable Multi-Task Work Tables	3	626.1	0.5	-538.446
		Rockford	Consumer	Office Supplies	Binders	Avery Durable Binders	3	1.728	0.8	-2.6784
		Rockford	Consumer	Technology	Phones	Nokia Lumia 1020	4	1439.968	0.2	143.9968
		I						4959.934		-833.7036
		Mishawaka	Consumer	Office Supplies	Binders	Green Canvas Binder for 8-1/2" x 14" Sheets	3	128.4	0	64.2
	Indiana	Richmond	Corporate	Office Supplies	Paper	Ink Jet Note and Greeting Cards, 8-1/2" x 5-1/2" Card Size	1	22.48	0	10.3408
	Indiana Sub Tot	al						150.88		74.5408
	Minnesota	Eagan	Corporate	Office Supplies	Binders	Wilson Jones Leather-Like Binders with DublLock Round Rings	2	17.46	0	8.2062
		Eagan	Corporate	Technology	Accessories	Verbatim 25 GB 6x Blu-ray Single Layer Recordable Disc, 25/Pack	2	45.98	0	19.7714

Minnesota Sub	Total	Τ					63.44		2
Missouri	Saint Peters	Home Office	Furniture	Tables	Chromcraft Round Conference Tables	4	697.16	0	14
Missouri Sub T	otal						697.16		14
	Broken Arrow	Corporate	Furniture	Tables	Hon Practical Foundations 30 x 60 Training Table, Light Gray/Charcoal	7	1592.85	0	3
Oklahoma	Broken Arrow	Corporate	Office Supplies	Binders	Storex Dura Pro Binders	2	11.88	0	
	Norman	Consumer	Technology	Accessories	Imation 16GB Mini TravelDrive USB 2.0 Flash Drive	5	1287.45	0	24
	Tulsa	Corporate	Technology	Phones	Mediabridge Sport Armband iPhone 5s	7	69.93	0	
Oklahoma Sub	Total			1			2962.11		6
	Amarillo	Consumer	Furniture	Furnishings	Eldon Image Series Desk Accessories, Burgundy	3	23.076	0.6	-:
	Amarillo	Consumer	Office Supplies	Paper	Xerox 212	5	25.92	0.2	
	Bryan	Corporate	Furniture	Chairs	Novimex Swivel Fabric Task Chair	5	528.43	0.3	-:
	Bryan	Corporate	Office Supplies	Binders	GBC Pre-Punched Binding Paper, Plastic, White, 8-1/2" x 11"	7	22.386	0.8	-3
	Dallas	Consumer	Office Supplies	Paper	Xerox 1994	3	15.552	0.2	
	Dallas	Corporate	Office Supplies	Envelopes	Cameo Buff Policy Envelopes	3	149.352	0.2	
	Dallas	Corporate	Office Supplies	Storage	Acco Perma 4000 Stacking Storage Drawers	1	12.992	0.2	
	Dallas	Home Office	Office Supplies	Binders	Pressboard Hanging Data Binders for Unburst Sheets	9	8.856	0.8	-
	Dallas	Home Office	Office Supplies	Envelopes	Tyvek Interoffice Envelopes, 9 1/2" x 12 1/2", 100/Box	3	146.352	0.2	
	Dallas	Home Office	Technology	Accessories	Verbatim 25 GB 6x Blu-ray Single Layer Recordable Disc, 3/Pack	5	27.96	0.2	
_	Fort Worth	Corporate	Technology	Phones	Belkin Grip Candy Sheer Case / Cover for iPhone 5 and 5S	3	21.072	0.2	
Texas	Harlingen	Consumer	Furniture	Bookcases	Safco Value Mate Series Steel Bookcases, Baked Enamel Finish on Steel, Gray	5	241.332	0.32	
	Harlingen	Consumer	Office Supplies	Art	BOSTON Ranger #55 Pencil Sharpener, Black	7	145.544	0.2	
	Harlingen	Consumer	Office Supplies	Paper	Xerox 1993	1	5.184	0.2	
	Houston	Consumer	Furniture	Furnishings	DAX Two-Tone Silver Metal Document Frame	2	16.192	0.6	
	Houston	Corporate	Furniture	Chairs	Harbour Creations Steel Folding Chair	4	241.5	0.3	
					Deflect-o RollaMat Studded, Beveled Mat for Medium Pile				
	Houston	Corporate	Furniture	Furnishings	Carpeting	2	73.784	0.6	-
	Houston	Corporate	Furniture	Tables	Safco Drafting Table	2	99.372	0.3	
	Houston	Corporate	Office Supplies	Art	Prang Dustless Chalk Sticks	1	1.344	0.2	
	Odessa	Corporate	Furniture	Chairs	Office Star - Mid Back Dual function Ergonomic High Back Chair with 2-Way Adjustable Arms	5	563.43	0.3	
	Odessa	Corporate	Office Supplies	Paper	Rediform Wirebound "Phone Memo" Message Book, 11 x 5-3/4	7	42.784	0.2	
	Round Rock	Consumer	Office Supplies	Fasteners	Acco Banker's Clasps, 5 3/4"-Long	1	2.304	0.2	

Round Rock Consumer Rechnology Accessories Verbatim 25 66 & Riburay Single Layer Recordable Disc, 1/Pack 7 41.72 0.2	2 5.736 2 32.398 3 -127.579 8 -2.162 2 11.89
Round Rock Consumer Rechnology Accessories Verbatim 25 GB ox Blur ary Single Layer Recordable Disc, 1/Pack 7 41.72 0.2	2 5.736 2 32.398 3 -127.579 8 -2.162 2 11.89
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San Antonio Consumer Furniture Tables Hon Non-Folding Utility Tables 5 557,585 0.3	3 -127.579 8 -2.162 2 11.89
San Antonio Consumer Furniture Tables Office Impressions End Table, 20-1/2"H x 24"W x 20"D 3 637.896 0.3 0.3	8 -2.162 2 11.89
San Antonio Consumer Supplies Binders Insertable Tab Indexes For Data Binders 2 1.272 0.8	2 11.89
San Antonio Consumer Supplies Envelopes White Envelopes, White Envelopes with Clear Poly Window 3 3.6.6 0.2	2 11.89
San Antonio Consumer Supplies Envelopes White Envelopes with Clear Poly Window 3 3.6.6 0.2	
San Antonio Consumer Supplies Paper Capacity, 5 3/6" x 11" 5 70.08 0.2	24.53
San Antonio Consumer Technology Machines Canon PC170 Desktop Personal Copier 3 287.91 0.4	2 24.52
San Antonio Corporate Technology Accessories Imation Clip USB flash drive - 8 GB 2 30.08 0.2	
San Antonio Corporate Technology Accessories WD My Passport Ultra 1TB Portable External Hard Drive 3 165.6 0.2	2 -5.26
San Antonio Corporate Technology Phones AT&T17929 Lendline Telephone 5 180.96 0.2	
Texas Sub Total Franklin Corporate Furniture Bookcases Atlantic Metals Mobile 3-Shelf Bookcases, Custom Colors 6 1565.88 0 Wisconsin Franklin Corporate Supplies Binders Plastic Binding Combs 7 106.05 0 Green Bay Corporate Furniture Furnishings Westinghouse Clip-On Gooseneck Lamps 2 16.74 0 Unifor Consumer Supplies Binders Flexible Leather- Look Classic Collection Ring Binder 3 56.82 0 Wisconsin Sub Total 2 2335.81 Central Total 19855.803 -	
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Connecticut Milford Office Technology Accessories Microsoft Sculpt Comfort Mouse 5 199.75 0 Norwich Corporate Supplies Paper Xerox 188 1 11.34 0 Connecticut Sub Total 392.887 Delaware Newark Consumer Supplies Binders 1/2" X 14" 7/8" 2 32.54 0 Newark Consumer Technology Phones Plantronics Voyager Pro HD - Bluetooth Headset 2 129.98 0	3 -15.582
Norwich Corporate Supplies Paper Xerox 188 1 11.34 0 Connecticut Sub Total 392.887 Delaware Newark Consumer Supplies Binders 1/2" X 14" 7/8" 2 32.54 0 Newark Consumer Technology Phones Plantronics Voyager Pro HD - Bluetooth Headset 2 129.98 0	0 87.8
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	0 15.944
	0 62.390
East Delaware Sub Total 162.52	78.33
Clinton Consumer Furniture Furnishings Regeneration Desk Collection 6 10.56 0	0 4.646
Clinton Consumer Furniture Tables Bevis Boat-Shaped Conference Table 3 550.431 0.3	3 -47.179
Clinton Consumer Supplies Art Economy #2 Pencils 3 7.98 0	0 2.074
Maryland Clinton Consumer Supplies Paper Wirebound Message Books, Four 2 3/4 x 5 Forms per Page, 200 Sets per Book 1 4.77 0	0 2.146
Columbia Consumer Furniture Furnishings Electrix Halogen Magnifier Lamp 5 971.5 0	0 252.5
Columbia Consumer Supplies Appliances Room Honeywell Enviracaire Portable HEPA Air Cleaner for 17' x 22' Room 3 901.95 0	

Maryland Sub Total And And Massachusetts And Mala Massachusetts Sub To New Hampshire New Hampshire Sub Total And	ndover ndover ndover ndover ndover ndover Talden Total	Consumer Corporate Consumer Consumer Consumer Consumer Consumer Consumer Consumer	Furniture Technology Furniture Office Supplies Office Supplies Office Supplies Office Supplies Office Supplies Office Supplies	Envelopes Bookcases Phones Chairs Binders Paper Storage Art	Blue String-Tie & Button Interoffice Envelopes, 10 x 13 Bush Westfield Collection Bookcases, Medium Cherry Finish GE 30522EE2 Situations Contoured Folding Chairs, 4/Set Ibico Hi-Tech Manual Binding System Xerox 193 Personal Folder Holder, Ebony Newell 345	5 3 2 5 4 3 1	199.9 173.94 231.98 3053.011 354.9 51.8 17.94	0 0 0 0 0	7
Maryland Sub Total And And Massachusetts And Mala Massachusetts Sub To New Hampshire New Hampshire Sub Total Atla Bella Mor	ndover	Consumer Consumer Consumer Consumer Consumer Consumer	Furniture Office Supplies Office Supplies Office Supplies Office Supplies Office Supplies	Chairs Binders Paper Storage	GE 30522EE2 Situations Contoured Folding Chairs, 4/Set Ibico Hi-Tech Manual Binding System Xerox 193 Personal Folder Holder, Ebony	5 4 3	231.98 3053.011 354.9 51.8	0 0 0	+
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Massachusetts Ando Malo Massachusetts Sub To New Hampshire Dove New Hampshire Sub To Atla Bello Mor	ndover ndover ndover ndover ndover Talden Total over	Consumer Consumer Consumer	Office Supplies Office Supplies Office Supplies Office Supplies Office	Binders Paper Storage	Ibico Hi-Tech Manual Binding System Xerox 193 Personal Folder Holder, Ebony	3	354.9 51.8 17.94	0	
Massachusetts Ando Ando Malo Massachusetts Sub To New Hampshire Dove New Hampshire Sub To Atlai Belle Mor	ndover ndover ndover falden o Total over	Consumer Consumer Consumer	Office Supplies Office Supplies Office Supplies Office Supplies Office	Binders Paper Storage	Ibico Hi-Tech Manual Binding System Xerox 193 Personal Folder Holder, Ebony	3	51.8 17.94	0	
Massachusetts Ando Ando Malo Massachusetts Sub To New Hampshire Dove New Hampshire Sub 1 Atla Bello Mor	ndover ndover falden Total over b Total	Consumer Consumer	Supplies Office Supplies Office Supplies Office Office	Paper Storage	Xerox 193 Personal Folder Holder, Ebony	3	17.94	0	
Massachusetts Ando Ando Malo Massachusetts Sub To New Hampshire Dove New Hampshire Sub 1 Atla Bello Mor	ndover ndover falden Total over b Total	Consumer Consumer	Office Supplies Office Supplies Office	Paper Storage	Xerox 193 Personal Folder Holder, Ebony	3	17.94	0	
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Andomassachusetts Sub Too New Hampshire Dove New Hampshire Sub Too Atlan Belle More Plair	ndover falden Total over b Total	Consumer Consumer	Office Supplies Office	Storage	Personal Folder Holder, Ebony	1			
Massachusetts Sub To New Hampshire New Hampshire Sub To Atlai Belle Mor	o Total over b Total	Consumer	Supplies Office				11.21	0	
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Hampshire Dove New Hampshire Sub 1 Atla Belle Mor	ıb Total	Corporate					475.55		F
Atla Belle Mor	ıb Total		Technology	Accessories	Logitech G602 Wireless Gaming Mouse	2	159.98	0	
Atla Belle Mor					U TOTAL DE LA CONTRACTOR DE LA CONTRACTO		159.98		
Mor Plair	tlantic City		Office				200.00		
Mor Plair		Corporate	Supplies	Envelopes	Staple envelope	2	23.36	0	
Mor	elleville	Consumer	Furniture	Chairs	Hon Comfortask Task/Swivel Chairs	2	227.96	0	
Plair			Office		·				
	1orristown	Consumer	Supplies	Fasteners	Bagged Rubber Bands	6	7.56	0	
			Office						
	lainfield	Corporate	Supplies	Art	Dixon Ticonderoga Maple Cedar Pencil, #2	3	9.21	0	
New Jersey			Office						
Plair	lainfield	Corporate	Supplies	Paper	Telephone Message Books with Fax/Mobile Section, 4 1/4" x 6"	5	18	0	4
Vine	ineland	Consumer	Furniture	Tables	Chromcraft Round Conference Tables	2	244.006	0.3	
		Home	Office						
Wes	Vestfield	Office	Supplies	Art	American Pencil	2	4.66	0	4
		Home	Office						
Wes	Vestfield	Office	Supplies	Envelopes	Quality Park Security Envelopes	2	52.34	0	-
West	/aatfiald	Home	Tooknology	A	Lasitash Caraina CE10a Washaard	2	254.07	0	
	/estfield	Office	Technology	Accessories	Logitech Gaming G510s - Keyboard	3	254.97	0	<u> </u>
New Jersey Sub Total		C	F	Daalaaaa	OlCulling Living Discouniese F. Chalf Dealisease	1	842.066	0.2	-
Long	ong Beach	Consumer	Furniture	Bookcases	O'Sullivan Living Dimensions 5-Shelf Bookcases	1	176.784	0.2	
lon	ong Reach	Corporato	Office Supplies	Labels	Staple-on labels	3	8.67	0	
LONE	ong Beach	Corporate	Office	Labels	Stapie-on labels	3	8.07	U	
Long	ong Beach	Corporate	Supplies	Supplies	Acme Office Executive Series Stainless Steel Trimmers	3	25.71	0	
	lew York City	Consumer	Furniture	Chairs	Global Value Steno Chair, Gray	6	327.996	0.1	
		Consumer	Furniture	Chairs	Hon Every-Day Chair Series Swivel Task Chairs	3	326.646	0.1	
	lew York City	Consumer	Furniture	Furnishings	Coloredge Poster Frame		113.6		
						8		0	
New	ew York City	Consumer	Furniture	Furnishings	Executive Impressions 14" Contract Wall Clock	2	44.46	0	
	lavv Varily C'	Commercial	Francis	Francishin	Howard Miller 13-3/4" Diameter Brushed Chrome Round Wall		22.2		
New	ew York City	Consumer	Furniture	Furnishings	Clock	8	414	0	
New		Consumer	Office Supplies	Appliances	Conquest 14 Commercial Heavy-Duty Upright Vacuum, Collection System, Accessory Kit	3	170.88	0	

		Ott:						
New York City	Consumer	Office Supplies	Binders	Acco Four Pocket Poly Ring Binder with Label Holder, Smoke, 1"	5	29.8	0.2	9.3125
		Office						
New York City	Consumer	Supplies	Binders	GBC DocuBind P100 Manual Binding Machine	3	398.352	0.2	124.485
New York City	Consumer	Office Supplies	Binders	GBC Plastic Binding Combs	7	41.328	0.2	14.9814
		Office				.1.010	5.2	
New York City	Consumer	Supplies	Binders	Satellite Sectional Post Binders	2	69.456	0.2	22.5732
No. Vol. Cit		Office	D'adam	S		40 526	0.2	47.2276
New York City	Consumer	Supplies Office	Binders	Square Ring Data Binders, Rigid 75 Pt. Covers, 11" x 14-7/8"	3	49.536	0.2	17.3376
New York City	Consumer	Supplies	Binders	Wilson Jones data.warehouse D-Ring Binders with DublLock	4	26.336	0.2	9.2176
		Office						
New York City	Consumer	Supplies	Envelopes	#10 Gummed Flap White Envelopes, 100/Box	4	16.52	0	7.5992
Now York City	Consumor	Office	Envolonos	Stanle envelope	3	29.34	0	13.4964
New York City	Consumer	Supplies Office	Envelopes	Staple envelope	3	29.54	0	15.4904
New York City	Consumer	Supplies	Fasteners	Advantus Push Pins	4	8.72	0	3.5752
		Office						
New York City	Consumer	Supplies	Paper	Memo Book, 100 Message Capacity, 5 3/8" x 11"	2	13.48	0	6.74
New York City	Consumer	Office Supplies	Paper	Xerox 1959	9	60.12	0	28.8576
INEW TOTK City	Consumer	Office	Гарег	ACION 1939	,	00.12	0	20.0370
New York City	Consumer	Supplies	Paper	Xerox 1993	2	12.96	0	6.3504
		Office						
New York City	Consumer	Supplies Office	Storage	Belkin 19" Center-Weighted Shelf, Gray	2	117.96	0	5.898
New York City	Consumer	Supplies	Storage	Carina Double Wide Media Storage Towers in Natural & Black	3	242.94	0	9.7176
New York City	Consumer	Technology	Accessories	Logitech 910-002974 M325 Wireless Mouse for Web Scrolling	3	89.97	0	39.5868
New York City	Corporate	Furniture	Furnishings	Floodlight Indoor Halogen Bulbs, 1 Bulb per Pack, 60 Watts	7	135.8	0	66.542
New York City	Corporate	Furniture	Furnishings	Tenex B1-RE Series Chair Mats for Low Pile Carpets	1	45.98	0	7.8166
New York City	Corporate	Furniture	Tables	Chromcraft Round Conference Tables	3	313.722	0.4	-99.3453
Now York City	Camanata	Office	A mt	Newall 340	2	E0 E3		17.05.0
New York City	Corporate	Supplies Office	Art	Newell 319	3	59.52	0	17.856
New York City	Corporate	Supplies	Binders	GBC Standard Recycled Report Covers, Clear Plastic Sheets	5	43.12	0.2	15.092
		Office						
New York City	Corporate	Supplies	Fasteners	Staples	6	36.48	0	18.24
New York City	Corporate	Office Supplies	Storage	Gould Plastics 18-Pocket Panel Bin, 34w x 5-1/4d x 20-1/2h	5	459.95	0	18.398
New York City	Corporate	Office	Storage	Godia Flastics 18 Focket Failer Birl, 54W X 3 1/40 X 20 1/211	3	433.33	- O	10.550
New York City	Corporate	Supplies	Storage	SAFCO Commercial Wire Shelving, 72h	7	428.68	0	0
	Home	Office						
New York City	Office	Supplies	Paper	Xerox 1893	2	81.98	0	40.1702
Oceanside	Consumer	Furniture	Furnishings	GE 4 Foot Flourescent Tube, 40 Watt	1	14.98	0	6.8908
Oceanside Oceanside	Consumer Corporate	Furniture Furniture	Furnishings Furnishings	Master Caster Door Stop, Brown 9-3/4 Diameter Round Wall Clock	5	20.32 68.95	0	6.9088 28.959
Oceanside	corporate	Office	Turnsnings	Recycled Data-Pak for Archival Bound Computer Printouts, 12-	3	00.93	0	20.939
Oceanside	Corporate	Supplies	Storage	1/2 x 12-1/2 x 16	3	296.37	0	80.0199
Oceanside	Corporate	Technology	Phones	iOttie HLCRIO102 Car Mount	2	39.98	0	1.999

	Yonkers	Consumer	Furniture	Tables	Chromcraft Round Conference Tables	8	836.592	0.4	-26
	West en	6	Office		Encoded to the control of the contro	4	26.20	0	
	Yonkers	Consumer	Supplies Office	Paper	Easy-staple paper	1	26.38	0	1
	Yonkers	Consumer	Supplies	Storage	Adjustable Depth Letter/Legal Cart	2	362.92	0	10
	Yonkers	Consumer	Technology	Machines	Ativa V4110MDD Micro-Cut Shredder	7	4899.93	0	240
New York Sub T	l	Consumer	reciliology	iviaciiiies	Ativa v41101v1DD Iviicio-cut Silieudei	,	10987.218	<u> </u>	309
New Tolk Sub I	Cleveland	Consumer	Furniture	Bookcases	O'Sullivan Living Dimensions 3-Shelf Bookcases	3	301.47	0.5	-2
	Cieveiariu	Consumer	Office	bookcases	O Sullivan Living Differisions 3-Shell Bookcases	<u> </u>	301.47	0.5	-2
	Cleveland	Consumer	Supplies	Art	Hunt BOSTON Vista Battery-Operated Pencil Sharpener, Black	2	18.656	0.2	
	Cleveland	Home Office	Technology	Accessories	Verbatim 25 GB 6x Blu-ray Single Layer Recordable Disc, 25/Pack	3	55.176	0.2	1
	Cleveland	Home Office	Technology	Phones	Panasonic Kx-TS550	4	110.376	0.4	-2
	Columbus	Consumer	Furniture	Furnishings	Advantus Panel Wall Acrylic Frame	5	21.88	0.2	
		Home							
Ohio	Columbus	Office	Furniture	Furnishings	Ultra Door Push Plate	14	54.992	0.2	
			Office						
	Lancaster	Consumer	Supplies	Paper	Xerox 1912	2	30.352	0.2	1
			Office		N. Had		444.404		
	Newark	Consumer	Supplies	Art	Newell 34	7	111.104	0.2	
	Novemb	Consumor	Office	Envolones	Stanle envelope	5	46.72	0.2	
	Newark	Consumer	Supplies	Envelopes	Staple envelope			0.2	1
	Springfield	Consumer	Furniture	Bookcases	Bush Andora Bookcase, Maple/Graphite Gray Finish	5	299.975	0.5	-1
	Springfield	Consumer	Technology	Phones	Clearsounds A400	4	158.376	0.4	-3
Ohio Cub Total	Toledo	Corporate	Furniture	Furnishings	DAX Two-Tone Rosewood/Black Document Frame, Desktop, 5 x 7	2	15.168	0.2	20
Ohio Sub Total		1	Office				1224.245		-39
	Philadelphia	Consumer	Supplies	Fasteners	Rubber Band Ball	2	5.984	0.2	-
	Philadelphia	Consumer	Technology	Accessories	Plantronics Audio 478 Stereo USB Headset	1	39.992	0.2	
	Philadelphia	Consumer	Technology	Phones	AT&T 17929 Lendline Telephone	4	108.576	0.4	-2
	Philadelphia	Corporate	Furniture	Chairs	SAFCO Arco Folding Chair	2	386.68	0.3	
	- madeipina	Corporate	Office	Citalia	State of the of the order of th		300.00	0.5	
Pennsylvania -	Philadelphia	Corporate	Supplies	Art	Newell 312	1	4.672	0.2	
	Philadelphia	Corporate	Office Supplies	Binders	Avery Arch Ring Binders	6	104.58	0.7	-
			Office						
	Philadelphia	Corporate	Supplies	Binders	GBC VeloBind Cover Sets	5	23.16	0.7	
	Dhiladalahia	Cornorata	Office	Dindora	Ibico ER 10 Dual Function Manual Binding Custom		F1 007	0.7	
	Philadelphia	Corporate	Supplies	Binders	Ibico EB-19 Dual Function Manual Binding System	1	51.897	0.7	-4
	Dhila dalada	Co	Office	Favorier	Recycled Interoffice Envelopes with String and Button Closure, 10		F7 F76	0.3	
	Philadelphia	Corporate	Supplies Office	Envelopes	x 13	3	57.576	0.2	
	Philadelphia	Corporate	Supplies	Paper	Speediset Carbonless Redi-Letter 7" x 8 1/2"	5	41.24	0.2	1
	rillaueipilla	Corporate	Office	rapei	Speculset carboniess neur-tetter / x o 1/2	3	41.24	0.2	1
	Philadelphia	Corporate	Supplies	Storage	SAFCO Commercial Wire Shelving, Black	5	552.56	0.2	-
	derpina	- COI porace	Office	0.0.080	and the state of t		332.30	0.2	
	Philadelphia	Corporate	Supplies	Storage	Space Solutions Industrial Galvanized Steel Shelving.	2	126.08	0.2	-
	Philadelphia	Corporate	Technology	Accessories	Kensington Expert Mouse Optical USB Trackball for PC or Mac	5	379.96	0.2	

		Philadelphia	Corporate	Technology	Machines	Swingline SM12-08 MicroCut Jam Free Shredder	3	449.1	0.7	-643.71
		Philadelphia	Corporate	Technology	Phones	Polycom CX600 IP Phone VoIP phone	3	539.91	0.4	-116.9805
		Philadelphia	Home Office	Furniture	Furnishings	DAX Charcoal/Nickel-Tone Document Frame, 5 x 7	4	30.336	0.2	9.48
		Philadelphia	Home Office	Office Supplies	Binders	Avery Self-Adhesive Photo Pockets for Polaroid Photos	1	2.043	0.7	-1.4982
		Philadelphia	Home Office	Technology	Accessories	V7 USB Numeric Keypad	3	83.976	0.2	-13.6461
		Philadelphia	Home Office	Technology	Phones	Grandstream GXP1160 VoIP phone	3	68.238	0.4	-12.5103
		Philadelphia	Home Office	Technology	Phones	Wilson SignalBoost 841262 DB PRO Amplifier Kit	2	431.94	0.4	-71.99
	Pennsylvania Si	ub Total						3488.5		1095.6165
		Burlington	Corporate	Office Supplies	Art	4009 Highlighters	6	8.04	0	2.7336
	Vermont	Burlington	Corporate	Office Supplies	Storage	Iceberg Mobile Mega Data/Printer Cart	13	1564.29	0	406.7154
		Burlington	Corporate	Technology	Accessories	Logitech Wireless Marathon Mouse M705	2	99.98	0	42.9914
	Vermont Sub To	otal						1672.31		452.4404
East Tota	al							22458.267		3263.2673
		Jacksonville	Corporate	Office Supplies	Art	Newell 337	2	5.248	0.2	0.5904
		Jacksonville	Corporate	Technology	Accessories	Logitech MX Performance Wireless Mouse	6	191.472	0.2	40.6878
		Jacksonville	Corporate	Technology	Phones	Logitech B530 USB Headset - headset - Full size, Binaural	2	59.184	0.2	5.1786
	Florida	Miami	Consumer	Furniture	Furnishings	Deflect-o DuraMat Lighweight, Studded, Beveled Mat for Low Pile Carpeting	3	102.36	0.2	-3.8385
		Miami	Consumer	Technology	Phones	Cisco Unified IP Phone 7945G VoIP phone	5	1363.96	0.2	85.2475
		Miami	Corporate	Office Supplies	Labels	Avery 518	4	10.08	0.2	3.528
		Tampa	Home Office	Office Supplies	Binders	Avery Arch Ring Binders	2	34.86	0.7	-26.726
		Tampa	Home Office	Office Supplies	Binders	Avery Durable Slant Ring Binders With Label Holder	3	3.762	0.7	-2.7588
South		Tampa	Home Office	Office Supplies	Storage	Standard Rollaway File with Lock	3	432.456	0.2	32.4342
	Florida Sub Tot	al						2203.382		134.3432
		Atlanta	Consumer	Office Supplies	Binders	Avery Durable Slant Ring Binders, No Labels	4	15.92	0	7.4824
		Atlanta	Consumer	Office Supplies	Storage	Tennsco Double-Tier Lockers	6	1350.12	0	175.5156
	Caarsis	Atlanta	Home Office	Office Supplies	Binders	Fellowes PB500 Electric Punch Plastic Comb Binding Machine with Manual Bind	1	1270.99	0	635.495
	Georgia	Atlanta	Home Office	Office Supplies	Envelopes	#10 White Business Envelopes,4 1/8 x 9 1/2	8	125.36	0	58.9192
		Columbus	Corporate	Furniture	Furnishings	DAX Two-Tone Silver Metal Document Frame	1	20.24	0	8.7032
		Columbus	Corporate	Furniture	Furnishings	Eldon Expressions Wood and Plastic Desk Accessories, Oak	4	39.92	0	11.1776
		Columbus	Corporate	Office Supplies	Binders	Acco Flexible ACCOHIDE Square Ring Data Binder, Dark Blue, 11 1/2" X 14" 7/8"	2	32.54	0	15.9446

	Columbus	Corporate	Technology	Accessories	First Data FD10 PIN Pad	4	316	0	
		Home							
	Columbus	Office	Furniture	Furnishings	Eldon Image Series Desk Accessories, Burgundy	4	76.92	0	31
		Home	Office						
	Columbus	Office	Supplies	Storage	Iceberg Mobile Mega Data/Printer Cart	4	481.32	0	125
		Home	l						
	Smyrna	Office	Furniture	Bookcases	Bush Andora Bookcase, Maple/Graphite Gray Finish	2	239.98	0	52
		Home	l				10.04		_
	Smyrna	Office	Furniture	Furnishings	Howard Miller 13" Diameter Goldtone Round Wall Clock	3	18.84	0	7
	Cassiana	Home	Office	Favolance	Amas Calay File Cysey Diamand Dayday V yey Mailays	2	167.06	0	70
	Smyrna	Office	Supplies Office	Envelopes	Ames Color-File Green Diamond Border X-ray Mailers	2	167.96	0	78
	Smurna	Home Office		Factonors	Royara Payad Bubbar Banda by Royara	5	0.45	0	
	Smyrna	Home	Supplies Office	Fasteners	Revere Boxed Rubber Bands by Revere	3	9.45	0	
	Smurna	Office		Paper	White Computer Printout Paper by Universal	9	348.84	0	170
	Smyrna		Supplies Office	Paper		9	340.04	U	1/0
	Smurna	Home Office		Danor	White Dual Perf Computer Printout Paper, 2700 Sheets, 1 Part,	2	122.97	_	60
	Smyrna	Home	Supplies Office	Paper	Heavyweight, 20 lbs., 14 7/8 x 11	3	122.97	0	60
	Smyrna	Office	Supplies	Panor	Xerox 1943	7	342.37	0	160
	Smyrna	Home	Office	Paper	ACIUA 1343	/	342.37	U	100
	Smyrna	Office	Supplies	Storage	Belkin 19" Vented Equipment Shelf, Black	3	154.44	0	1
	Siffyffia	Home	Office	Storage	Delkiii 15 Venteu Equipment Shell, black	3	134.44	0	
	Smyrna	Office	Supplies	Storage	Carina 42"Hx23 3/4"W Media Storage Unit	1	80.98	0	1
	Siriyiria	Home	Заррпез	Storage	Carma 42 Tix23 3/4 W Media Storage Offic		00.50		-
	Smyrna	Office	Technology	Phones	Aastra 57i VoIP phone	3	484.83	0	126
	oya	Home	10011101087	- Hones	radia off von phone	3	10 1100		
	Smyrna	Office	Technology	Phones	Plantronics Cordless Phone Headset with In-line Volume - M214C	3	104.85	0	28
Georgia Sub To	<u> </u>						5804.84		1790
	Henderson	Consumer	Furniture	Furnishings	Eldon Cleatmat Plus Chair Mats for High Pile Carpets	4	318.08	0	34
			Office	1 4			020.00		
Kentucky	Henderson	Consumer	Supplies	Binders	Wilson Jones "Snap" Scratch Pad Binder Tool for Ring Binders	1	5.8	0	
	Richmond	Consumer	Furniture	Chairs	Hon Multipurpose Stacking Arm Chairs	4	866.4	0	22
Kentucky Sub T	•			1	9		1190.28		262
			Office						
Louisiana	Monroe	Corporate	Supplies	Paper	Xerox 218	2	12.96	0	6
Louisiana Sub T							12.96		6
	Gulfport	Corporate	Furniture	Furnishings	Eldon Image Series Desk Accessories, Ebony	7	86.45	0	3
	, , , , , , , , , , , , , , , , , , ,	a superiore	Office				337.13		
	Gulfport	Corporate	Supplies	Binders	XtraLife ClearVue Slant-D Ring Binders by Cardinal	4	31.36	0	
Mississippi			Office		J ,				
, ,	Jackson	Consumer	Supplies	Art	Panasonic KP-150 Electric Pencil Sharpener	7	264.18	0	68
		Home	Office						
	Jackson	Office	Supplies	Paper	Xerox 1964	16	365.44	0	168
Mississippi Sub	<u> </u>						747.43		290
	Charlotte	Corporate	Technology	Copiers	Hewlett Packard 310 Color Digital Copier	4	959.968	0.2	11
	Fayetteville	Consumer	Furniture	Bookcases	Sauder Forest Hills Library, Woodland Oak Finish	4	451.136	0.2	-67
North Carolina	Fayetteville	Consumer	Furniture	Furnishings	Eldon Pizzaz Desk Accessories	8	14.272	0.2	2
	. ayettevine	CONSUME		7 0111131111163	LIGHT I LEGE DESIGNACESSOTIES	0	11.212	0.2	
			Office						

				Office						
		Jacksonville	Consumer	Supplies	Storage	Tenex Personal Self-Stacking Standard File Box, Black/Gray	5	67.64	0.2	5.9185
		Jacksonville	Consumer	Technology	Accessories	Case Logic 2.4GHz Wireless Keyboard	3	119.976	0.2	-17.9964
				Office		,				
		Raleigh	Consumer	Supplies	Art	Newell 319	3	47.616	0.2	5.952
				Office						
		Raleigh	Consumer	Supplies	Binders	XtraLife ClearVue Slant-D Ring Binder, White, 3"	7	30.828	0.7	-24.6624
		Raleigh	Consumer	Technology	Phones	Avaya 5410 Digital phone	2	108.784	0.2	10.8784
			Home		51			4427.076	0.0	126 0072
	No alla Constituta	Raleigh	Office	Technology	Phones	Samsung Galaxy S4 Mini	3	1127.976	0.2	126.8973
	North Carolina	Sub Total	T	I	I	Deflect a EconoMat Studded No Boyal Mat for Law Bile		2993.06		170.081
		Chattanooga	Corporate	Furniture	Furnishings	Deflect-o EconoMat Studded, No Bevel Mat for Low Pile Carpeting	4	132.224	0.2	-18.1808
		Chattanooga	Corporate	Office	Turrismigs	Curpeting		132.224	0.2	10.1000
		Columbia	Consumer	Supplies	Appliances	Hoover WindTunnel Plus Canister Vacuum	3	871.8	0.2	87.18
	Tennessee	Memphis	Consumer	Furniture	Tables	Balt Solid Wood Rectangular Table	3	189.882	0.4	-94.941
				Office						
		Nashville	Consumer	Supplies	Paper	Speediset Carbonless Redi-Letter 7" x 8 1/2"	2	16.496	0.2	5.5674
				Office						
		Nashville	Corporate	Supplies	Binders	Ibico Recycled Grain-Textured Covers	3	31.086	0.7	-20.724
	Tennessee Sub			T				1241.488		-41.0984
		Arlington	Consumer	Furniture	Furnishings	Acrylic Self-Standing Desk Frames	7	18.69	0	7.1022
		A di a di a		Office	B' alam	Possets Florible Pice Piceless		26.4	0	40.2
		Arlington	Consumer	Supplies	Binders	Presstex Flexible Ring Binders	8	36.4	0	18.2
	Ar Ar	Arlington	Consumer	Technology Office	Machines	HP Designjet T520 Inkjet Large Format Printer - 24" Color	5	8749.95	0	2799.984
		Arlington	Corporate	Supplies	Storage	Hanging Personal Folder File	2	31.4	0	7.85
		7 timigeon	Corporate	Office	Storage	Tranging reasonary order the	2	31.4		7.03
		Arlington	Corporate	Supplies	Storage	X-Rack File for Hanging Folders	5	56.45	0	14.677
	Virginia		·	Office		Permanent Self-Adhesive File Folder Labels for Typewriters by				
		Springfield	Consumer	Supplies	Labels	Universal	3	7.83	0	3.6018
		Springfield	Consumer	Technology	Accessories	Micro Innovations USB RF Wireless Keyboard with Mouse	4	100	0	21
			Home							
		Waynesboro	Office	Furniture	Furnishings	Howard Miller 14-1/2" Diameter Chrome Round Wall Clock	2	127.88	0	40.9216
			Home	Office						
		Waynesboro	Office	Supplies	Appliances	Eureka The Boss Lite 10-Amp Upright Vacuum, Blue	2	160.32	0	44.8896
	Virginia	Maynoshara	Home	Office	Binders	Ibico Covers for Plastic or Wire Binding Elements	4	16	0	20.7
		Waynesboro	Office	Supplies	billuers	Tibico Covers for Plastic of Wife Billuling Elements	4	9334.92	0	20.7
South To	- J	lai						23528.36		5592.0759
3041110	, cui			Office				23320.30		3332.0733
		Glendale	Consumer	Supplies	Binders	GBC Standard Recycled Report Covers, Clear Plastic Sheets	3	9.702	0.7	-7.1148
				Office						
		Glendale	Corporate	Supplies	Storage	Mini 13-1/2 Capacity Data Binder Rack, Pearl	1	104.696	0.2	6.5435
West	Arizona		Home	Office		Belkin 7 Outlet SurgeMaster Surge Protector with Phone				
West		Scottsdale	Office	Supplies	Appliances	Protection	5	157.92	0.2	17.766
		6	Home					202.121		45.0000
		Scottsdale	Office	Technology	Phones	Jabra BIZ 2300 Duo QD Duo Corded Headset	2	203.184	0.2	15.2388
	Animora C. l. T.	Sierra Vista	Consumer	Furniture	Furnishings	Nu-Dell Float Frame 11 x 14 1/2	2	14.368	0.2	3.9512
	Arizona Sub Tot	ldl				1.4		489.87		36.3847

Fresno Corporate Technology Phones netTALK DUO VoIP Telephone Service 9 377.928 0	21.5964
Fresno Corporate Technology Phones netTALK DUO VoIP Telephone Service 9 377.928 0 Los Angeles Consumer Furniture Furnishings DAX Cubicle Frames, 8-1/2 x 11 7 59.99 Los Angeles Consumer Supplies Binders Wilson Jones Active Use Binders 2 11.648 0	141.723 21.5964 4.2224
Los Angeles Consumer Furniture Furnishings DAX Cubicle Frames, 8-1/2 x 11 7 59.99 Office Los Angeles Consumer Supplies Binders Wilson Jones Active Use Binders 2 11.648 0	4.2224
Los Angeles Consumer Supplies Binders Wilson Jones Active Use Binders 2 11.648 0	4.2224
Los Angeles Consumer Supplies Binders Wilson Jones Active Use Binders 2 11.648 0	
Office	5.0055
	5.0055
Los Angeles Consumer Supplies Fasteners Acco Clips to Go Binder Clips, 24 Clips in Two Sizes 3 10.65	
Office Office	
Los Angeles Consumer Supplies Paper Hammermill Color Copier Paper (28Lb. and 96 Bright) 2 19.98	8.991
Office Name of Consumer Supplies Page Name of Consumer Supplies Page Name of Consumer Name o	2 0202
Los Angeles Consumer Supplies Paper Xerox 1983 1 5.98 Office	2.9302
Los Angeles Consumer Supplies Storage Recycled Steel Personal File for Hanging File Folders 2 114.46	28.615
Office	20.013
Los Angeles Consumer Supplies Storage Rogers Deluxe File Chest 4 87.92	0.8792
Los Angeles Consumer Technology Accessories Imation 8GB Mini TravelDrive USB 2.0 Flash Drive 3 90.57	11.7741
Los Angeles Consumer Technology Accessories Memorex Mini Travel Drive 64 GB USB 2.0 Flash Drive 1 36.24	15.2208
Los Angeles Consumer Technology Phones AT&T 1070 Corded Phone 5 445.96 0	55.745
Office Office	
Los Angeles Corporate Supplies Art Newell 345 2 39.68	10.3168
Office	
Los Angeles Corporate Supplies Binders Avery Heavy-Duty EZD Binder With Locking Rings 7 31.248 0	10.9368
California Los Angeles Corporate Supplies Binders Clear Wilson Jones Clip & Carry Folder Binder Tool for Ring Binders, 4 18.56 0	6.496
Office Corporate Supplies Billiers Clear	0.490
Los Angeles Corporate Supplies Paper Xerox 1883 4 105.52	48.5392
Office	
Los Angeles Corporate Supplies Storage Fellowes Officeware Wire Shelving 5 449.15	8.983
Office Office	
Los Angeles Corporate Supplies Storage Safco Commercial Shelving 2 93.02	3.7208
Los Angeles Corporate Technology Accessories SanDisk Ultra 16 GB MicroSDHC Class 10 Memory Card 1 12.99	0.7794
Los Angeles Corporate Technology Phones Motorola L703CM 5 623.96 0	38.9975
Home Office Sumplies Pages For stories and For	27.702
Los Angeles Office Supplies Paper Easy-staple paper 5 56.7 Home Office	27.783
Los Angeles Office Supplies Paper Rediform Voice Mail Log Books 5 14.9	7.152
Home Office	7.1202
Los Angeles Office Supplies Paper Tops Green Bar Computer Printout Paper 3 146.82	73.41
Home l	
Los Angeles Office Technology Accessories Kingston Digital DataTraveler 16GB USB 2.0 3 26.85	5.1015
Home Home	
Los Angeles Office Technology Machines Okidata MB760 Printer 3 3357.6 0	377.73
Los Angeles Office Technology Phones Apple iPhone 5 8 4158.912 0	262 0040
Los Angeles Office Technology Phones Apple iPhone 5 8 4158.912 0 Home	363.9048
Los Angeles Office Technology Phones AT&T 1080 Phone 1 109.592 0	8.2194
Home Office	0.2107
Oakland Office Supplies Art Panasonic KP-350BK Electric Pencil Sharpener with Auto Stop 1 34.58	10.0282

	Riverside	Home Office	Office Supplies	Binders	Cardinal EasyOpen D-Ring Binders	7	51.184	0.2	19
	San Diego	Consumer	Furniture	Chairs	Global Ergonomic Managers Chair	7	1013.488	0.2	76.
	San Diego	Consumer	Furniture	Chairs	Global Super Steno Chair	2	153.568	0.2	-5.
	San Diego	Consumer	Furniture	Tables	Chromcraft Round Conference Tables	4	557.728	0.2	6
			Office					-	
	San Diego	Consumer	Supplies	Labels	Avery 475	3	44.4	0	
			Office						
	San Diego	Consumer	Supplies	Labels	Avery 476	5	20.65	0	
			Office						
	San Diego	Consumer	Supplies	Labels	Avery 508	3	14.73	0	
	Can Diago	Consumor	Office	Storago	Follower Mahile File Cart Black	3	186.54	0	50
	San Diego	Consumer	Supplies Technology	Storage Phones	Fellowes Mobile File Cart, Black Anker Astro 15000mAh USB Portable Charger	4	159.968	0.2	-3:
	San Diego	Consumer Home	Office	Phones	Anker Astro 15000mAn USB Portable Charger	4	159.968	0.2	-3.
	San Diego	Office	Supplies	Art	Berol Giant Pencil Sharpener	1	16.99	0	
	Juli Diego	Office	Office	Ait	beror dianter entiri sharpener	1	10.33	0	
	San Francisco	Consumer	Supplies	Binders	GBC Wire Binding Strips	2	50.784	0.2	1
			Office						
	San Francisco	Consumer	Supplies	Binders	Heavy-Duty E-Z-D Binders	2	17.456	0.2	
			Office						
	San Francisco	Consumer	Supplies	Labels	Avery 512	9	26.01	0	1
			Office						
	San Francisco	Consumer	Supplies	Paper	Xerox 1880	2	70.88	0	3
	Can Francisco	Concumor	Office	Ctorogo	File Shuttle Hand Handi File Black	0	205.01		_
	San Francisco	Consumer	Supplies	Storage Phones	File Shuttle II and Handi-File, Black	9	305.01	0	7
	San Francisco	Consumer	Technology	1	i.Sound Portable Power - 8000 mAh		84.784	0.2	-2
	San Francisco	Corporate	Furniture	Chairs	Global Comet Stacking Arm Chair	4	1352.032	0.2	
	San Francisco	Corporate	Furniture	Chairs	Hon 4070 Series Pagoda Round Back Stacking Chairs	3	770.352	0.2	7
	San Francisco	Corporate	Furniture	Furnishings	Executive Impressions 10" Spectator Wall Clock	3	35.28	0	1
	San Francisco	Corporate	Furniture Office	Furnishings	Westinghouse Mesh Shade Clip-On Gooseneck Lamp, Black	2	28.28	0	
	San Francisco	Corporate	Supplies	Appliances	Euro-Pro Shark Turbo Vacuum	5	154.9	0	
	Janinalicisco	Corporate	Office	Appliances	Lato 110 Shark Turbo Vacuum		134.3	0	
	San Francisco	Corporate	Supplies	Binders	Avery Round Ring Poly Binders	2	4.544	0.2	
		por dece	Office		,			0.2	
	San Francisco	Corporate	Supplies	Envelopes	Security-Tint Envelopes	4	30.56	0	1
			Office						
	San Francisco	Corporate	Supplies	Storage	Tennsco Stur-D-Stor Boltless Shelving, 5 Shelves, 24" Deep, Sand	5	676.55	0	
			Office						
	San Francisco	Corporate	Supplies	Supplies	Elite 5" Scissors	3	25.35	0	
	Con Fuer-in-	Comparet	Office	Committee	High Coood Automotic Floatric Letter Cooper		4042.50		4.04
	San Francisco	Corporate	Supplies	Supplies	High Speed Automatic Electric Letter Opener	3	4912.59	0	190
	San Francisco	Corporate	Technology	Accessories	Logitech 910-002974 M325 Wireless Mouse for Web Scrolling	3	89.97	0	3
diformi - C. J. 7	San Francisco	Corporate	Technology	Accessories	Maxell 4.7GB DVD+RW 3/Pack	2	31.86	0	220
lifornia Sub 1		Carrie	Tankerst	Dharra	DCA VICVC 25 422 D54 Co		21777.796		220
Colorado	Denver	Corporate	Technology	Phones	RCA ViSYS 25423RE1 Corded phone	2	159.984	0.2	13
	Littleton	Consumer	Furniture	Bookcases	Atlantic Metals Mobile 2-Shelf Bookcases, Custom Colors	1	72.294	0.7	-98

			Office						
Idaho	Pocatello	Consumer	Supplies	Binders	Wilson Jones Hanging View Binder, White, 1"	3	17.04	0.2	
lualio			Office		Adams Telephone Message Book W/Dividers/Space For Phone				
	Pocatello	Consumer	Supplies	Paper	Numbers, 5 1/4"X8 1/2", 300/Messages	3	17.64	0	
Idaho Sub Tota	l						34.68		
	North Las								
Nevada	Vegas	Corporate	Technology	Accessories	Logitech ClearChat Comfort/USB Headset H390	2	58.58	0	
Nevada Sub To	tal						58.58		
Oregon	Gresham	Corporate	Technology	Phones	BlackBerry Q10	4	403.168	0.2	
Oregon Sub To	tal						403.168		
	Longview	Consumer	Furniture	Furnishings	DAX Value U-Channel Document Frames, Easel Back	5	24.85	0	
	Seattle	Consumer	Furniture	Bookcases	O'Sullivan 2-Shelf Heavy-Duty Bookcases	1	48.58	0	
	Seattle	Consumer	Furniture	Chairs	Global Deluxe High-Back Office Chair in Storm	4	435.168	0.2	-!
Washington			Office						
	Seattle	Consumer	Supplies	Paper	Xerox 218	2	12.96	0	
	Seattle	Corporate	Furniture	Chairs	Global High-Back Leather Tilter, Burgundy	2	196.784	0.2	-:
	Seattle	Corporate	Furniture	Furnishings	Contract Clock, 14", Brown	5	109.9	0	
Washington Sub Total							828.242		-
otal							23824.614		218

Executive Report

Executive Report for Q1 2020

Geographic				Q1 2020 VS Q4		Q1 2020 VS Q1	Participation In	Participation In Q1	Participation In Q1	
Area	Туре	Q1 2020	Q4 2019	2019	Q1 2019	2019	2019	2019	2020	Trend
Illinois	Sales	4959.93400	4591.99200	8.012688175	1937.97000	155.934508790	18.741963802	16.812537204	24.979770398	1
	Profit	-833.70360	46.86360	-1879.000332881	-841.18980	-0.889953730	-8.588040037	422.078929516	228.814659005	\downarrow
Indiana	Sales	150.88000	2890.21000	-94.779618090	196.65000	-23.274853801	6.739444833	1.706004449	0.759878611	\downarrow
IIIulalia	Profit	74.54080	1077.22730	-93.080309049	76.66550	-2.771389999	16.960246389	-38.468003500	-20.458143319	\downarrow
Minnesota	Sales	63.44000	2165.12000	-97.069908365	171.50000	-63.008746356	5.765997210	1.487819796	0.319503573	\downarrow
Willinesota	Profit	27.97760	644.34320	-95.657966127	74.37980	-62.385486382	14.497997385	-37.321121062	-7.678610244	个
Missouri	Sales	697.16000	6680.72000	-89.564597828	NA	NA	7.089483254	NA	3.511114610	\downarrow
Missouri	Profit	146.40360	2825.00060	-94.817572782	NA	NA	24.651814880	NA	-40.181294421	\downarrow
Oklahama	Sales	2962.11000	1971.46000	50.249561239	NA	NA	2.850262111	NA	14.918107316	\downarrow
Oklahoma	Profit	601.08780	439.31380	36.824247269	NA	NA	5.624982332	NA	-164.971939655	\downarrow
Toyas	Sales	8786.46900	9920.39220	-11.430225511	5462.71360	60.844401581	31.570878533	47.390865512	44.251390891	\downarrow
Texas	Profit	-1007.68810	-42.04670	2296.592598230	-488.01420	106.487454668	-19.236427994	244.868056085	276.565687116	1
Wisegnsin	Sales	2235.81000	2685.68000	-16.750692562	3558.62000	-37.171993638	8.486632752	30.872217395	11.260234602	\downarrow
Wisconsin	Profit	627.02430	706.98180	-11.309697081	908.97400	-31.018455973	17.406606856	-456.090614601	-172.090358483	\downarrow
Central Total	Sales	19855.80300	39063.59720	-49.170572033	11526.93360	72.255724627	100.000000000	100.000000000	100.00000000	\downarrow
	Profit	-364.35760	7606.58290	-104.790029962	-199.29680	82.821600748	100.000000000	100.00000000	100.00000000	\downarrow
Connecticut	Sales	392.88700	26.90000	1360.546468401	NA	NA	0.884566441	NA	1.749409249	\downarrow
	Profit	77.86400	13.18100	490.729079736	NA	NA	2.092278080	NA	2.386074840	\downarrow
5.1	Sales	162.52000	2077.00000	-92.175252768	2139.00000	-92.402057036	3.706439704	15.364467582	0.723653343	\downarrow
Delaware	Profit	78.33500	566.25890	-86.166221847	506.00780	-84.519013343	6.551237098	19.469245012	2.400508227	1
	Sales	3053.01100	1196.34000	155.195930923	2631.80000	16.004673607	5.400541709	18.904257028	13.594152211	\downarrow
Maryland	Profit	707.41740	352.72730	100.556463875	1296.13960	-45.421203086	13.293119825	49.870494964	21.678193509	\downarrow
	Sales	475.53000	1880.13800	-74.707707626	32.55000	1360.921658986	4.562466235	0.233807115	2.117394009	1
Massachusetts	Profit	134.50540	496.59970	-72.914723871	13.74000	878.933042213	9.579420047	0.528662654	4.121801484	1
New	Sales	159.98000	3552.07400	-95.496152389	724.34000	-77.913686943	2.991866408	5.202944576	0.712343477	\downarrow
Hampshire	Profit	57.59280	528.97750	-89.112429168	339.55700	-83.038841785	4.412305311	13.064854788	1.764881473	\downarrow
	Sales	842.06600	2643.06000	-68.140488676	286.79000	193.617629624	2.664165610	2.060016670	3.749470073	1
New Jersey	Profit	145.40670	739.51860	-80.337654793	74.56540	95.005592406	5.949885038	2.868991431	4.455862381	1
	Sales	10987.21800	32524.28800	-66.218421138	5622.15500	95.427162716	50.475640721	40.384019747	48.922822050	↑
New York	Profit	3098.68390	9520.33850	-67.451956671	815.81030	279.828974947	85.156759372	31.389260430	94.956484257	↑
	Sales	1224.24500	8499.93800	-85.597012590	1694.29600	-27.743145236	9.409883999	12.170152392	5.451199774	· •
Ohio	Profit	-393.36180	-2843.20230	-86.164832520	-369.61750	6.424019425	-19.293575238	-14.221467867	-12.054231659	↓
	Sales	3488.50000	5731.38000	-39.133332635	790.80100	341.135001094	14.123162532	5.680334889	15.533255527	, v
Pennsylvania	Profit	-1095.61650	-1163.89400	-5.866298821	-77.19170	1319.344955481	-19.104998645	-2.970041411	-33.574218698	↑
	Sales	1672.31000	5120.10000	-67.338333236	NA	NA	3.525554736	NA	7.446300287	↓
Vermont	Profit	452.44040	1191.92700	-62.041265950	NA	NA	5.838397151	NA	13.864644187	\downarrow
	Sales	22458.26700	63251.21800	-64.493542243	13921.73200	61.318052955	100.000000000	100.000000000	100.000000000	\downarrow
East Total	Profit	3263.26730	9402.43220	-65.293370581	2599.01090	25.558045947	100.000000000	100.000000000	100.000000000	\downarrow
	Sales	2203.38200	5883.54100	-62.550069762	2000.16800	10.159846573	21.075189254	12.229342295	9.364792106	1
Florida	Profit	134.34320	-2090.64880	-106.425909507	254.02930	-47.115076883	-22.373637015	9.960590802	2.402385132	↓
	FIOIIL	134.34320	-2030.04000	-100.423303307	234.02330	-47.113070003	-22.3/303/013	J.30033000Z	2.402303132	\mathbf{V}

	Sales	5804.84000	526.34000	1002.868868032	6555.83000	-11.455300092	14.662532045	40.083377544	24.671672824	\downarrow
Georgia	Profit	1790.23310	79.37560	2155.394730874	3258.91560	-45.066601295	55.855521162	127.783388568	32.013748240	1
	Sales	1190.28000	1598.87000	-25.554923164	364.07000	226.937127475	9.933978418	2.225981342	5.058916134	1
Kentucky	Profit	262.86280	569.27020	-53.824598583	131.07970	100.536620087	35.300456039	5.139687643	4.700630047	\downarrow
	Sales	12.96000	NA	NA	NA	NA	1.344656844	NA	0.055082462	\downarrow
Louisiana	Profit	6.22080	NA	NA	NA	NA	3.776810789	NA	0.111243125	\downarrow
N dissipation:	Sales	747.43000	62.46000	1096.653858469	NA	NA	0.442690686	NA	3.176719499	\downarrow
Mississippi	Profit	290.50720	17.73520	1538.026072444	NA	NA	1.614962173	NA	5.194979560	\downarrow
Nanth Canalina	Sales	2993.06000	1659.81300	80.325133012	5577.67100	-46.338534489	12.538651101	34.102759301	12.721073632	\downarrow
North Carolina	Profit	170.08100	80.33580	111.712586419	-1616.36310	-110.522450061	-16.360515630	-63.378245842	3.041464441	\downarrow
Tonnossoo	Sales	1241.48800	2966.63600	-58.151657298	551.26400	125.207523074	12.126648127	3.370514952	5.276559862	1
Tennessee	Profit	-41.09840	-779.23840	-94.725824600	15.56640	-364.019940384	-25.352947239	0.610364791	-0.734939953	↑
Virginia	Sales	9334.92000	2864.26000	225.910357300	698.52000	1236.385500773	15.447027527	4.270861337	39.675183481	\downarrow
Virginia	Profit	2978.92620	959.35300	210.514086056	239.62530	1143.160133759	39.138125202	9.395804181	53.270489408	\downarrow
Courth Tatal	Sales	23528.36000	15975.54000	47.277400326	16355.48300	43.856100123	100.00000000	100.000000000	100.000000000	\downarrow
South Total	Profit	5592.07590	-1063.81000	-625.664911967	2550.34370	119.267540293	100.000000000	100.00000000	100.00000000	\downarrow
Arizona	Sales	489.87000	2441.04900	-79.931988256	NA	NA	5.588334224	NA	2.056150836	\downarrow
Arizona	Profit	36.38470	250.92220	-85.499609042	NA	NA	-0.759608253	NA	1.662530449	\downarrow
California	Sales	21777.79600	25378.14200	-14.186799018	12313.99200	76.854069744	62.034105156	54.177924044	91.408809394	1
California	Profit	2201.13150	4692.66980	-53.094259903	2082.81970	5.680366860	71.262380320	41.112932830	100.576564922	\downarrow
Colorado	Sales	232.27800	3292.21200	-92.944622035	3.40800	6715.669014085	3.876640628	0.014994192	0.974949689	1
Colorado	Profit	-84.80320	-1279.69600	-93.373176129	0.89460	-9579.454504807	-6.596269141	0.017658576	-3.874922761	↑
Idaho	Sales	34.68000	NA	NA	NA	NA	0.419859215	NA	0.145563743	\downarrow
Idano	Profit	14.18160	NA	NA	NA	NA	0.587210460	NA	0.648001545	\downarrow
Nevada	Sales	58.58000	1902.87800	-96.921505215	NA	NA	1.639306919	NA	0.245880164	\downarrow
Nevaua	Profit	19.33140	451.52380	-95.718631000	NA	NA	2.687101779	NA	0.883311973	\downarrow
Oregon	Sales	403.16800	2537.45100	-84.111299095	29.30400	1275.812175812	3.387271257	0.128928936	1.692233083	1
Oregon	Profit	25.19800	-88.48820	-128.476113199	2.56410	882.722982723	-0.855050864	0.050612960	1.151375228	1
Washington	Sales	828.24200	6515.73000	-87.288577028	10304.05600	-91.961980797	18.156434147	45.334799901	3.476413091	\downarrow
vvasiiiigtoii	Profit	-22.91070	1223.28280	-101.872886629	2950.95270	-100.776383166	28.265389307	58.249074627	-1.046861356	\downarrow
West Total	Sales	23824.61400	44081.85800	-45.953698231	22728.80000	4.821257611	100.000000000	100.00000000	100.00000000	\downarrow
West Total	Profit	2188.51330	5590.02300	-60.849654823	5066.09370	-56.800773345	100.00000000	100.00000000	100.00000000	\downarrow

Annex

Lab Exercise 1 - Submission A

Analysis

The following incompleteness, inconsistencies, redundancies, and duplicates were observed:

- Column "Country/Region" is redundant as its value does not change
- There are 11 rows with missing zip code. Most of the missing values are from the same customer.
- Need a reference dictionary for categorical columns, listing the possible values in each column.
- Need a formula for "Revenue" based on Sales.
- Need cost per unit
- Need shipping cost
- Numerical columns are missing units.

The following graphs show sales in (\$) per region and state for analysis.

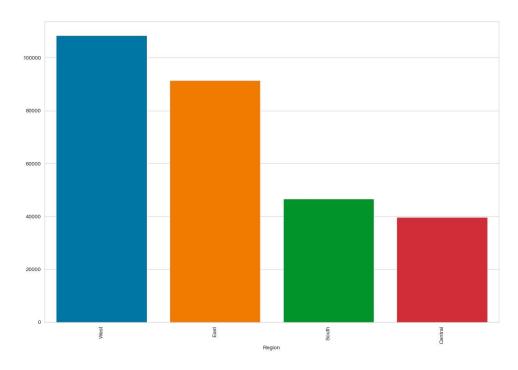


Figure 1: Sales in (\$) per region

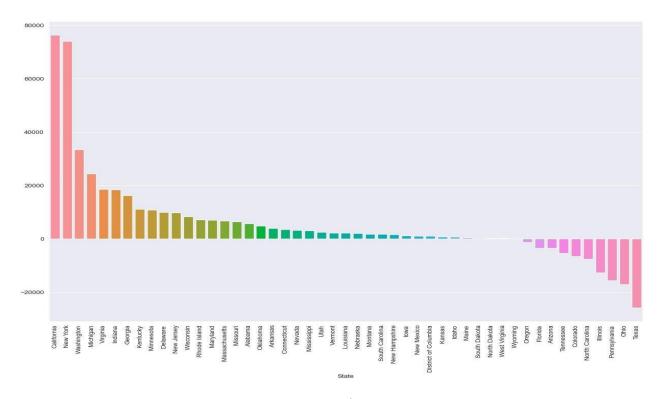


Figure 2: Sales in (\$) per state

Target Audience

The target audience for the Operational Report is the "Customer." They are the target to whom the company is selling the products to. The report is done quarterly with breakdown according to sale per region and state. It is used internally to monitor sales, control inventory and cost. It's also used to identify deficiencies and performance improvement.

The target audience for the Executive Report is the Executive team to monitor trends in quarterly Sales and Profit.

Context And Additional Assumptions

Both Operational Report and Executive Reports are to be generated and maintained by Data Management (DM) department based on quarterly sales number. Both reports are to be completed no later than 14 working days after the end of the quarter. It's assumed that DM will receive sales figures from Sale Department at the end each quarter in a previously agreed upon format, headings and units. Each department head will receive an electronic copy of the Operational Report and each member of the Executive Team will receive a hard copy of the Executive Report along with an electronic one.

Returns will be accounted for using Order ID as reference and the sales figure adjusted accordingly. Return information could be incorporated into the Operational Report for performance improvement purposes.

Operational And Executive Reports

The following columns/features are included in the Operational Report:

- Region, specifying one of the four regions (South, Central, East, West)
- State, the states of United-States
- City, the city in which the sales was completed
- Segment, one of three possible customer segment (Corporate, Home Office and Consumer)
- Category of the product of sale
- Sub-Category of the product of sale
- Product Name
- Shipping cost in (\$)
- Quantity Sold
- Unit Sold Price in (\$)
- Total sale price in (\$) per sale order
- Discount for each order in (%)
- Profit per sale order.

The following columns/features are included in the Executive Report:

- State/Region specifying which state and region the Sales and Profit figures refer to.
- Sales and Profit for current quarter
- Sales and Profit for previous quarter
- Quarterly change in Sales and Profit
- Sales and Profit for same quarter of previous year
- Year over year quarterly changes
- KPI: Participation ratio for previous year
- KPI: Running participation ratio for current year
- KPI: Participation ratio for current quarter

Sample Reports

See below samples for sample Operational and Executive Reports:

Quarterly Operational Report

01/01/22 - 03/31/22

							Shippin		Unit			
					Sub-		g Cost	Quanti	Price		Discoun	Profit
Region	State	City	Segment	Category	Category	Product Name	(\$)	ty Sold	(\$)	Sales (\$)	t (%)	(\$)
					Appliances	Acco Six-Outlet Power Strip, 4' Cord Length	TBD	7	8.62	60.34	0	15.69
	Nebraska	Fremont	Corporate	Office Supplies	Art	Newell 318	TBD	7	2.78	19.46	0	5.06
		Subtotal					nn.nn			79.80		20.75
					Appliances	Holmes Replacement Filter for HEPA Air Cleane	TBD	5	13.76	68.81	0.8	-123.86
		Fort Worth	Home Office	Office Supplies	Binders	Storex DuraTech Recycled Plastic Frosted Binde	TBD	3	0.85	2.544	0.8	-3.82
		Houston	Home Office	Office Supplies	Paper	Easy-staple paper	TBD	3	9.82	29.472	0.2	9.95
	Texas	Richardson	Corporate	Technology	Phones	GE 30524EE4	TBD	7	156.79	1097.544	0.2	123.47
		Subtotal					nn.nn			1198.37		5.75
	Wisconsin	Madison	Consumer	Office Supplies	Storage	Stur-D-Stor Shelving, Vertical 5-Shelf: 72"H x 36"	TBD	6	110.98	665.88	0	13.32
		Subtotal					nn.nn			665.88		13.32
Central	Total						nn.nn			1944.05		39.81

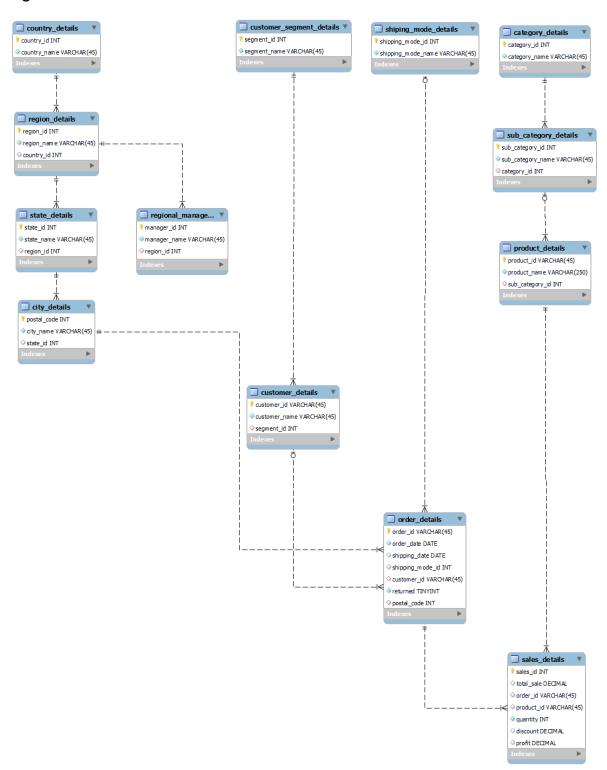
Quarterly Executive Report

Q1 2022

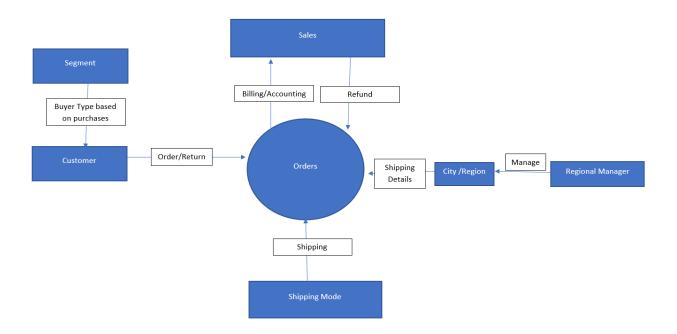
								KPIs:	
							KPIs:	Running	KPIs:
							Participation	Participation	Participation
				Q1 22 vs Q4		Q1 22 vs Q1	Ratio AVG	Ratio AVG	Ratio Q1 22
State		Q1 22	Q4 21	21 (%)	Q1 21	21 (%)	2021	2022	(%)
	Sales:	\$79.80)							•
Nebraska	Profit:	\$20.75)							•
	Sales:	\$1,198.37)							•
Texas	Profit:	\$5.75)							
	Sales:	\$665.88)							•
Wisconsin	Profit:	\$13.32)							•
	Sales:	\$1,944.05)		•		•	100.00%	100.00%	100.00%
Central Regio	Profit:	\$39.82)		•		•			

Lab Exercise 2 - Submission A

Logical-level ERD

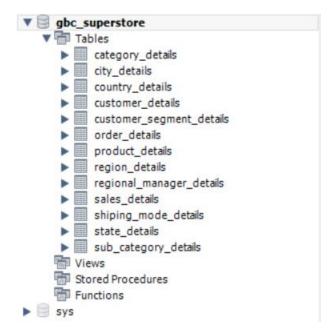


Data Flow



Database Schema

Following is the screenshot of the tables created in SQL workbench and short description of all the tables provided in the below schema.



		DATA_TY	COLUMN_TY	ORDINAL_POSITI
TABLE_NAME	COLUMN_NAME	PE	PE	ON
category_details	category_id	int	int	1
category_details	category_name	varchar	varchar(45)	2
city_details	postal_code	int	int	1
city_details	city_name	varchar	varchar(45)	2
city_details	state_id	int	int	3
country_details	country_id	int	int	1
country_details	country_name	varchar	varchar(45)	2
customer_details	customer_id	varchar	varchar(45)	1
customer_details	customer_name	varchar	varchar(45)	2
customer_details	segment_id	int	int	3
customer_segment_det				
ails	segment_id	int	int	1
customer_segment_det				
ails	segment_name	varchar	varchar(45)	2
order_details	order_id	varchar	varchar(45)	1
order_details	order_date	date	date	2
order_details	shipping_date	date	date	3
order_details	shipping_mode_id	int	int	4

order_details	customer_id	varchar	varchar(45)	5
order_details	returned	tinyint	tinyint	6
order_details	postal_code	int	int	7
product_details	product_id	varchar	varchar(45)	1
product_details	product_name	varchar	varchar(250)	2
product_details	sub_category_id	int	int	3
region_details	region_id	int	int	1
region_details	region_name	varchar	varchar(45)	2
region_details	country_id	int	int	3
regional_manager_deta				
ils	manager_id	int	int	1
regional_manager_deta				
ils	manager_name	varchar	varchar(45)	2
regional_manager_deta				
ils	region_id	int	int	3
sales_details	sales_id	int	int	1
sales_details	total_sale	decimal	decimal(10,0)	2
sales_details	order_id	varchar	varchar(45)	3
sales_details	product_id	varchar	varchar(45)	4
sales_details	quantity	int	int	5
sales_details	discount	decimal	decimal(10,0)	6
sales_details	profit	decimal	decimal(10,0)	7
shiping_mode_details	shipping_mode_id	int	int	1
	shipping_mode_na			
shiping_mode_details	me	varchar	varchar(45)	2
state_details	state_id	int	int	1
state_details	state_name	varchar	varchar(45)	2
state_details	region_id	int	int	3
sub_category_details	sub_category_id	int	int	1
	sub_category_nam			
sub_category_details	е	varchar	varchar(45)	2
sub_category_details	category_id	int	int	3

Note: For more descriptive schema details, refer to "Database Schema.xml".

Data Source Changes

Below steps were performed to the excel sheet (Sample – Superstore):

- Make Product Name consistent everywhere in the excel workbook for Product Ids:
 - 1. FUR-CH-10001146
 - 2. OFF-PA-10001970
 - 3. OFF-ST-10001228
 - 4. TEC-AC-10003832
 - 5. OFF-PA-10002377
 - 6. TEC-PH-10001530
 - 7. OFF-AP-10000576
 - 8. OFF-BI-10004632
 - 9. FUR-FU-10004091
 - 10. TEC-AC-10002049
 - 11. OFF-PA-10000357
 - 12. FUR-FU-10001473
 - 13. OFF-PA-10000477
 - 14. OFF-PA-10000659
 - 15. FUR-FU-10004848
 - 16. FUR-BO-10002213
 - 17. TEC-PH-10002310
 - 18. FUR-FU-10004270
 - 19. TEC-PH-10004531
 - 20. OFF-BI-10004654
 - 21. TEC-PH-10002200
 - 22. OFF-ST-10004950
 - 23. TEC-MA-10001148
 - 24. TEC-AC-10002550
 - 25. OFF-PA-10002195
 - 26. FUR-FU-10004017
 - 27. OFF-PA-10001166
 - 28. FUR-FU-10004864
 - 29. OFF-PA-10003022
 - 30. TEC-PH-10001795
 - 31. OFF-BI-10002026
- Make City Name consistent for Postal Code 92024.
- Filling Postal Code for Burlington, Vermont, United States with 5401 everywhere (referring postal codes from internet).

ETL Process

Extraction:

- Reading the excel file using pandas library.
- Splitting each sheet into separate DataFrames.
- Preprocessing:
 - In the returns DataFrame, kept only those Order Ids which were returned by the customers.
- Extraction process leaves us with 3 DataFrames of each worksheet from the workbook "Sample Superstore".

Transformation:

- Splitting the 3 DataFrames generated from Extraction into smaller DataFrames that are required to load our tables.
- Country Details Dataframe contains unique values of country/region from Orders worksheet.
- Customer Segment Details Dataframe contains unique values of segment from Orders worksheet.
- Shipping Mode Details Dataframe contains unique values of Ship Mode from Orders worksheet.
- Category Details Dataframe contains unique values of category from Orders worksheet.
- Region Details DataFrame contains distinct pairs of Region and Country/Region from Orders worksheet.
- Sub-category Details DataFrame contains distinct pairs of sub-category and category from Orders worksheet.
- State Details DataFrame contains distinct pairs of State and Region from Orders worksheet.
- Regional Manager Details DataFrame contains distinct pairs of Manager Name and Region Name from People worksheet.
- Product Details DataFrame contains distinct triples of Product Id, Product Name and Subcategory from Orders worksheet.
- Product Details DataFrame contains distinct triples of Postal Code, City and State from Orders worksheet.
- Customer Details DataFrame contains distinct triples of Customer Id, Customer Name and Segment from Orders worksheet.
- Order Details DataFrame contains distinct sets of Order Id, Order Date, Shipping Date, Shipping Mode, Customer ID and Postal Code from Orders worksheet and a returned column is set to 0/1 based on if the Order Id is present in Returns worksheet with a value "Yes".

- Sales Details DataFrame contains distinct sets of Sales, Order Id, Product Id, Quantity, Discount and Profit from Orders worksheet.
- Transformation returns us 13 DataFrames corresponding to each of the tables that have to be loaded into the schema "gbc_Superstore".

Loading

- We will follow the below flow and queries to load our Data Frames to the "gbc_Superstore" schema.
 - Country details Data Frame is loaded into the Database using the below query:

```
"'INSERT INTO `country_details`
(`country_name`)
VALUES
(%s);"'
```

• Customer details Data Frame is loaded into the Database using the below query:

• Shipping mode details Data Frame is loaded into the Database using the below query:

Category details Data Frame is loaded into the Database using the below query:

```
"'INSERT INTO `category_details`
(`category_name`)

VALUES
(%s);"'
```

• Region details Data Frame is loaded into the Database using the below query:

• Sub-category details Data Frame is loaded into the Database using the below query:

State details Data Frame is loaded into the Database using the below query:

```
"INSERT INTO `state_details`
    (`state_name`,
    `region_id`)

VALUES
    (%s,
    (SELECT `region_id` from `region_details` where `region_name` = %s));
""
```

• Regional manager details Data Frame is loaded into the Database using the below query:

```
"INSERT INTO `regional_manager_details`
    (`manager_name`,
    `region_id`)
    VALUES
    (%s,
    (SELECT `region_id` FROM `region_details` where `region_name` = %s));
""
```

Product details Data Frame is loaded into the Database using the below query:

• City details Data Frame is loaded into the Database using the below query:

```
"INSERT INTO `city_details`

(`postal_code`,

`city_name`,

`state_id`)
```

```
VALUES
( %s,
%s,
(SELECT `state_id` FROM `state_details` WHERE `state_name` = %s ));
```

• Customer details Data Frame is loaded into the Database using the below query:

```
"INSERT INTO `customer_details`
    (`customer_id`,
        `customer_name`,
        `segment_id`)

VALUES
    (%s,
        %s,
        (SELECT `segment_id` FROM `customer_segment_details` WHERE `segment_name` = %s));""
```

Order details Data Frame is loaded into the Database using the below query:

```
"INSERT INTO `order_details`
(`order_id`,
   `order_date`,
   `shipping_date`,
   `shipping_mode_id`,
   `customer_id`,
   `postal_code`,
   `returned`)

VALUES
(%s,
   %s,
```

```
%s,
    (SELECT `shipping_mode_id` FROM `shiping_mode_details` WHERE
`shipping_mode_name` = %s),
    %s,
    %s,
    %s);""
```

• Sales details Data Frame is loaded into the Database using the below query:

```
"INSERT INTO `sales_details`
        `total_sale`,
        `order_id`,
        `product_id`,
        `quantity`,
        `discount`,
        `profit`)
        VALUES
        (
        %s,
        %s,
        %s,
        %s,
        %s,
        %s);
        111
```

• The loading process results in all the 13 tables loaded with the data as per the schema.

This concludes the ETL process as the data has been extracted, got transformed and loaded to the Database.

Lab Exercise 3 – Submission A

Operational Report for Q1 2020

					Sub-		Quanti		Average	Profit
Region	State	City	Segment	Category	Category	Product Name	ty Sold	Sales (\$)	Discount	(\$)
		Chicago	Consumer	Furniture	Chairs	Global Airflow Leather Mesh Back Chair, Black	5	528.43	0.3	0
		Chicago	Consumer	Furniture	Furnishings	Eldon Cleatmat Plus Chair Mats for High Pile Carpets	5	159.04	0.6	-194.824
		Chicago	Consumer	Furniture	Tables	Bevis Rectangular Conference Tables	2	145.98	0.5	-99.2664
				Office		Commercial WindTunnel Clean Air Upright Vacuum, Replacement				
		Chicago	Consumer	Supplies	Appliances	Belts, Filtration Bags	3	2.334	0.8	-6.3018
				Office						
		Chicago	Consumer	Supplies	Art	Newell 33	3	13.392	0.2	1.5066
				Office						
		Chicago	Consumer	Supplies	Binders	Avery Durable Slant Ring Binders	2	3.168	0.8	-4.752
		Chicago	Consumor	Office	Binders	Peel & Stick Add-On Corner Pockets	4	1.728	0.8	-2.7648
		Chicago	Consumer	Supplies		Global Stack Chair with Arms, Black	3	62.958	0.8	-2.6982
		Chicago	Corporate	Furniture Office	Chairs	GIODAI STACK CHAIF WITH AFFIIS, BIACK	3	02.958	0.3	-2.0982
		Chicago	Corporate	Supplies	Appliances	Honeywell Enviracaire Portable Air Cleaner for up to 8 x 10 Room	6	92.064	0.8	-225.5568
		Cincago	Corporate	Office	Appliances	Troneywell Enviragence Fortable 7th elegater for up to 6 x 10 (tool)	0	32.004	0.0	223.3300
	Illinois	Chicago	Corporate	Supplies	Fasteners	Advantus Push Pins	4	6.976	0.2	1.8312
				Office						
		Chicago	Corporate	Supplies	Paper	Xerox 1943	4	156.512	0.2	52.8228
				Office						
Central		Chicago	Corporate	Supplies	Paper	Xerox 206	1	5.184	0.2	1.8144
Central			Home			Global Leather Highback Executive Chair with Pneumatic Height				
		Chicago	Office	Furniture	Chairs	Adjustment, Black	6	844.116	0.3	-36.1764
			Home	Office						
		Chicago	Office	Supplies	Paper	Computer Printout Paper with Letter-Trim Perforations	3	45.528	0.2	15.9348
		Chicago	Home	Tochnology	Dhanas	Johns DIZ 2200 Due OD Due Corded Headest	o	912 726	0.3	60.0553
		Chicago	Office	Technology	Phones	Jabra BIZ 2300 Duo QD Duo Corded Headset	8	812.736	0.2	60.9552
		Evanston Rockford	Consumer	Technology Furniture	Phones Tables	Belkin iPhone and iPad Lightning Cable Bretford "Just In Time" Height-Adjustable Multi-Task Work Tables	3	11.992 626.1	0.2	0.8994 -538.446
		ROCKIOIU	Consumer	Office	Tables	Brettord Just III Tillie Height-Adjustable Multi-Task Work Tables	3	020.1	0.5	-336.440
		Rockford	Consumer	Supplies	Binders	Avery Durable Binders	3	1.728	0.8	-2.6784
		Rockford	Consumer	Technology	Phones	Nokia Lumia 1020	4	1439.968	0.2	143.9968
	Illinois Sub Tota			1	1			4959.934		-833.7036
				Office						
	115	Mishawaka	Consumer	Supplies	Binders	Green Canvas Binder for 8-1/2" x 14" Sheets	3	128.4	0	64.2
	Indiana			Office						
		Richmond	Corporate	Supplies	Paper	Ink Jet Note and Greeting Cards, 8-1/2" x 5-1/2" Card Size	1	22.48	0	10.3408
	Indiana Sub Tot	al						150.88		74.5408
				Office						
	Minnesota	Eagan	Corporate	Supplies	Binders	Wilson Jones Leather-Like Binders with DublLock Round Rings	2	17.46	0	8.2062
		Eagan	Corporate	Technology	Accessories	Verbatim 25 GB 6x Blu-ray Single Layer Recordable Disc, 25/Pack	2	45.98	0	19.7714

Minnesota Sub Total Home							63.44		27.97
Missouri	Caint Datars	Home Office	Furnitura	Tables	Chromoraft Dound Conforance Tables	4	607.16	0	146 40
Missouri Sub T	Saint Peters	Office	Furniture	Tables	Chromcraft Round Conference Tables	4	697.16 697.16	0	146.40 146.40
VIISSOUTT SUD T	otai				Hen Dreetical Foundations 20 v CO Training Table Light		097.10		140.40
	Broken Arrow	Corporate	Furniture	Tables	Hon Practical Foundations 30 x 60 Training Table, Light Gray/Charcoal	7	1592.85	0	350.
Oklahoma	Broken Arrow	Corporate	Office Supplies	Binders	Storex Dura Pro Binders	2	11.88	0	5.
	Norman	Consumer	Technology	Accessories	Imation 16GB Mini TravelDrive USB 2.0 Flash Drive	5	1287.45	0	244.6
	Tulsa	Corporate	Technology	Phones	Mediabridge Sport Armband iPhone 5s	7	69.93	0	0.6
Oklahoma Sub	Total						2962.11		601.0
	Amarillo	Consumer	Furniture	Furnishings	Eldon Image Series Desk Accessories, Burgundy	3	23.076	0.6	-10.9
	Amarillo	Consumer	Office Supplies	Paper	Xerox 212	5	25.92	0.2	9
	Bryan	Corporate	Furniture	Chairs	Novimex Swivel Fabric Task Chair	5	528.43	0.3	-143
			Office						
	Bryan	Corporate	Supplies	Binders	GBC Pre-Punched Binding Paper, Plastic, White, 8-1/2" x 11"	7	22.386	0.8	-35.8
			Office						
	Dallas	Consumer	Supplies	Paper	Xerox 1994	3	15.552	0.2	5.4
			Office	l					
	Dallas	Corporate	Supplies	Envelopes	Cameo Buff Policy Envelopes	3	149.352	0.2	50.4
	Dallas	Corporate	Office Supplies	Storage	Acco Perma 4000 Stacking Storage Drawers	1	12.992	0.2	-(
		Home	Office						
	Dallas	Office	Supplies	Binders	Pressboard Hanging Data Binders for Unburst Sheets	9	8.856	0.8	-14.
	Dallas	Home Office	Office Supplies	Envelopes	Tyvek Interoffice Envelopes, 9 1/2" x 12 1/2", 100/Box	3	146.352	0.2	49.
	Dallas	Home Office	Technology	Accessories	Verbatim 25 GB 6x Blu-ray Single Layer Recordable Disc, 3/Pack	5	27.96	0.2	8
_	Fort Worth	Corporate	Technology	Phones	Belkin Grip Candy Sheer Case / Cover for iPhone 5 and 5S	3	21.072	0.2	1.
Texas	Harlingen	Consumer	Furniture	Bookcases	Safco Value Mate Series Steel Bookcases, Baked Enamel Finish on Steel, Gray	5	241.332	0.32	-14
			Office						
	Harlingen	Consumer	Supplies	Art	BOSTON Ranger #55 Pencil Sharpener, Black	7	145.544	0.2	16.
			Office						
	Harlingen	Consumer	Supplies	Paper	Xerox 1993	1	5.184	0.2	1.
	Houston	Consumer	Furniture	Furnishings	DAX Two-Tone Silver Metal Document Frame	2	16.192	0.6	-6.
	Houston	Corporate	Furniture	Chairs	Harbour Creations Steel Folding Chair	4	241.5	0.3	
					Deflect-o RollaMat Studded, Beveled Mat for Medium Pile				
	Houston	Corporate	Furniture	Furnishings	Carpeting	2	73.784	0.6	-77
	Houston	Corporate	Furniture	Tables	Safco Drafting Table	2	99.372	0.3	-1.
			Office		David David Chall City		4.5.4		
	Houston	Corporate	Supplies	Art	Prang Dustless Chalk Sticks	1	1.344	0.2	(
				Cl	Office Star - Mid Back Dual function Ergonomic High Back Chair		560.10		
	Odessa	Corporate	Furniture	Chairs	with 2-Way Adjustable Arms	5	563.43	0.3	-50
	Odossa	Corporato	Office	Danor	Rediform Wirebound "Phone Memo" Message Book, 11 x 5-3/4	7	42.784	0.2	10
	Odessa	Corporate	Supplies Office	Paper	Rediform Wirebourid Phone Weillo Wiessage Book, 11 x 5-3/4	,	42.784	0.2	15.
			Supplies		Acco Banker's Clasps, 5 3/4"-Long		2.304	0.2	0.

				Office						
		Round Rock	Consumer	Supplies	Supplies	High Speed Automatic Electric Letter Opener	3	3930.072	0.2	-786.0144
		Round Rock	Consumer	Technology	Accessories	Verbatim 25 GB 6x Blu-ray Single Layer Recordable Disc, 1/Pack	7	41.72	0.2	5.7365
		Round Rock	Consumer	Technology	Phones	Polycom VVX 310 VoIP phone	3	431.976	0.2	32.3982
		San Antonio	Consumer	Furniture	Tables	Hon Non-Folding Utility Tables	5	557.585	0.3	0
		San Antonio	Consumer	Furniture	Tables	Office Impressions End Table, 20-1/2"H x 24"W x 20"D	3	637.896	0.3	-127.5792
		5411711161116	Consumer	Office	1 4 2 1 2 3	office impressions and ruste, as a fact that the second se	3	0371030	0.0	127.3732
		San Antonio	Consumer	Supplies	Binders	Insertable Tab Indexes For Data Binders	2	1.272	0.8	-2.1624
				Office						
		San Antonio	Consumer	Supplies	Envelopes	White Envelopes, White Envelopes with Clear Poly Window	3	36.6	0.2	11.895
				Office		Adams Phone Message Book, Professional, 400 Message				
		San Antonio	Consumer	Supplies	Paper	Capacity, 5 3/6" x 11"	5	70.08	0.2	24.528
		San Antonio	Consumer	Technology	Machines	Canon PC170 Desktop Personal Copier	3	287.91	0.4	33.5895
		San Antonio	Corporate	Technology	Accessories	Imation Clip USB flash drive - 8 GB	2	30.08	0.2	-5.264
		San Antonio	Corporate	Technology	Accessories	WD My Passport Ultra 1TB Portable External Hard Drive	3	165.6	0.2	-6.21
		San Antonio	Corporate	Technology	Phones	AT&T 17929 Lendline Telephone	5	180.96	0.2	13.572
	Texas Sub Tota	l						8786.469		- 1007.6881
	TEXAS SUB TOtal	Franklin	Corporate	Furniture	Bookcases	Atlantic Metals Mobile 3-Shelf Bookcases, Custom Colors	6	1565.88	0	407.1288
		TTGTIKIIT	Corporate	Office	DOOKCases	Atlantic Metals Mobile 3-3nen bookcases, custom colors	0	1303.88	0	407.1200
		Franklin	Corporate	Supplies	Binders	Plastic Binding Combs	7	106.05	0	49.8435
		Green Bay	Corporate	Furniture	Furnishings	Westinghouse Clip-On Gooseneck Lamps	2	16.74	0	4.3524
	Wisconsin	Green Buy	Corporate	Office	T GITTISTILIGS	Westinghouse one on cosseneed Earnes		2017 1	-	
		La Crosse	Consumer	Supplies	Binders	Flexible Leather- Look Classic Collection Ring Binder	3	56.82	0	28.41
			Home	Office						
		Milwaukee	Office	Supplies	Appliances	Belkin 5 Outlet SurgeMaster Power Centers	9	490.32	0	137.2896
	Wisconsin Sub	Total						2235.81		627.0243
Central	Total							19855.803		-364.3576
		Fairfield	Consumer	Furniture	Tables	Bevis Round Bullnose 29" High Table Top	1	181.797	0.3	-15.5826
			Home							
	Connecticut	Milford	Office	Technology	Accessories	Microsoft Sculpt Comfort Mouse	5	199.75	0	87.89
				Office						
		Norwich	Corporate	Supplies	Paper	Xerox 188	1	11.34	0	5.5566
	Connecticut Su	b Total		1				392.887		77.864
	5.1			Office	Di d	Acco Flexible ACCOHIDE Square Ring Data Binder, Dark Blue, 11		22.54		45.0446
	Delaware	Newark	Consumer	Supplies	Binders	1/2" X 14" 7/8"	2	32.54	0	15.9446
		Newark	Consumer	Technology	Phones	Plantronics Voyager Pro HD - Bluetooth Headset	2	129.98	0	62.3904
East	Delaware Sub T			I	I =	I		162.52	_	78.335
		Clinton	Consumer	Furniture	Furnishings	Regeneration Desk Collection	6	10.56	0	4.6464
		Clinton	Consumer	Furniture	Tables	Bevis Boat-Shaped Conference Table	3	550.431	0.3	-47.1798
		Clinton	Consumer	Office Supplies	Art	Economy #2 Pencils	3	7.98	0	2.0748
	Maryland			Office		Wirebound Message Books, Four 2 3/4 x 5 Forms per Page, 200				
		Clinton	Consumer	Supplies	Paper	Sets per Book	1	4.77	0	2.1465
		Columbia	Consumer	Furniture	Furnishings	Electrix Halogen Magnifier Lamp	5	971.5	0	252.59
				Office		Honeywell Enviracaire Portable HEPA Air Cleaner for 17' x 22'				
		Columbia	Consumer	Supplies	Appliances	Room	3	901.95	0	297.6435

			Office			_	400.0		
	Columbia	Consumer	Supplies	Envelopes	Blue String-Tie & Button Interoffice Envelopes, 10 x 13	5	199.9	0	8
	Gaithersburg	Corporate	Furniture	Bookcases	Bush Westfield Collection Bookcases, Medium Cherry Finish	3	173.94	0	38
	Gaithersburg	Corporate	Technology	Phones	GE 30522EE2	2	231.98	0	67
Maryland Sub T		T -	1	T		_	3053.011		70
	Andover	Consumer	Furniture	Chairs	Situations Contoured Folding Chairs, 4/Set	5	354.9	0	
	Andayor	C	Office	Dindon	Ibias III Tash Manual Binding Custons	4	Г1 О	0	
	Andover	Consumer	Supplies Office	Binders	Ibico Hi-Tech Manual Binding System	4	51.8	0	
Massachusetts	Andover	Consumer	Supplies	Paper	Xerox 193	3	17.94	0	
Widssachasetts	Alldovel	Consumer	Office	Гарег	NEION 133		17.54	0	
	Andover	Consumer	Supplies	Storage	Personal Folder Holder, Ebony	1	11.21	0	
	7.11.00 (2.1	Consumer	Office	- Storage	Tersonal Folder Fielder) Esseny		11.21	•	
	Malden	Consumer	Supplies	Art	Newell 345	2	39.68	0	1
Massachusetts	•						475.53		13
New									
Hampshire	Dover	Corporate	Technology	Accessories	Logitech G602 Wireless Gaming Mouse	2	159.98	0	5
New Hampshire	Sub Total						159.98		5
			Office						
	Atlantic City	Corporate	Supplies	Envelopes	Staple envelope	2	23.36	0	
	Belleville	Consumer	Furniture	Chairs	Hon Comfortask Task/Swivel Chairs	2	227.96	0	3
			Office						
	Morristown	Consumer	Supplies	Fasteners	Bagged Rubber Bands	6	7.56	0	
	District Life	Constitution	Office	At	Diver Tiese degree Mark Code Servit #2		0.24		
	Plainfield	Corporate	Supplies	Art	Dixon Ticonderoga Maple Cedar Pencil, #2	3	9.21	0	
New Jersey	Plainfield	Cornerate	Office	Danor	Tolophono Mossago Pooks with Fay/Mahila Saction, 4.1/4" v.6"	F	10	0	
		Consumer	Supplies	Paper	Telephone Message Books with Fax/Mobile Section, 4 1/4" x 6"	5	18		2
	Vineland	Consumer Home	Furniture Office	Tables	Chromcraft Round Conference Tables	2	244.006	0.3	-3
	Westfield	Office	Supplies	Art	American Pencil	2	4.66	0	
	vvestrielu	Home	Office	741 C	7 different i Citoli		4.00	0	
	Westfield	Office	Supplies	Envelopes	Quality Park Security Envelopes	2	52.34	0	2
		Home	1. [1. [2. [2. [2. [2. [2. [2. [2. [2. [2. [2	,		-	3.00		_
	Westfield	Office	Technology	Accessories	Logitech Gaming G510s - Keyboard	3	254.97	0	9
New Jersey Sub	Total						842.066		14
	Long Beach	Consumer	Furniture	Bookcases	O'Sullivan Living Dimensions 5-Shelf Bookcases	1	176.784	0.2	-
			Office						
	Long Beach	Corporate	Supplies	Labels	Staple-on labels	3	8.67	0	
			Office						
	Long Beach	Corporate	Supplies	Supplies	Acme Office Executive Series Stainless Steel Trimmers	3	25.71	0	
	New York City	Consumer	Furniture	Chairs	Global Value Steno Chair, Gray	6	327.996	0.1	
New York	New York City	Consumer	Furniture	Chairs	Hon Every-Day Chair Series Swivel Task Chairs	3	326.646	0.1	3
	New York City	Consumer	Furniture	Furnishings	Coloredge Poster Frame	8	113.6	0	
	New York City	Consumer	Furniture	Furnishings	Executive Impressions 14" Contract Wall Clock	2	44.46	0	1
					Howard Miller 13-3/4" Diameter Brushed Chrome Round Wall				
	New York City	Consumer	Furniture	Furnishings	Clock	8	414	0	
			Office		Conquest 14 Commercial Heavy-Duty Upright Vacuum, Collection				
	New York City	Consumer	Supplies	Appliances	System, Accessory Kit	3	170.88	0	4

New York City Consumer Supplies Binders Acco Four Pocket Poly Ring Binder with Label Holder, Smoke, 1" 5 29.8 New York City Consumer Supplies Binders GBC DocuBind P100 Manual Binding Machine 3 398.352 New York City Consumer Supplies Binders GBC Plastic Binding Combs 7 41.328 New York City Consumer Supplies Binders Satellite Sectional Post Binders 2 69.456 New York City Consumer Supplies Binders Square Ring Data Binders, Rigid 75 Pt. Covers, 11" x 14-7/8" 3 49.536	0.2 0.2 0.2	9.3125 124.485 14.9814
New York CityConsumerOffice SuppliesBindersGBC DocuBind P100 Manual Binding Machine3398.352New York CityConsumerSuppliesBindersGBC Plastic Binding Combs741.328New York CityConsumerSuppliesBindersSatellite Sectional Post Binders269.456OfficeOfficeOffice1	0.2	124.485
New York City Consumer Supplies Binders GBC DocuBind P100 Manual Binding Machine 3 398.352 New York City Consumer Supplies Binders GBC Plastic Binding Combs 7 41.328 New York City Consumer Supplies Binders Satellite Sectional Post Binders 2 69.456 Office Office Office Office Office Office	0.2	
New York City Consumer Supplies Binders GBC Plastic Binding Combs 7 41.328 New York City Consumer Supplies Binders Satellite Sectional Post Binders 2 69.456 Office Office		14.9814
New York City Consumer Supplies Binders Satellite Sectional Post Binders 2 69.456 Office		14.9814
New York City Consumer Supplies Binders Satellite Sectional Post Binders 2 69.456 Office Office	0.2	
Office	0.2	
		22.5732
New York City Consumer Supplies Binders Square Ring Data Binders, Rigid 75 Pt. Covers, 11" x 14-7/8" 3 49,536		4= 00=0
	0.2	17.3376
New York City Consumer Supplies Binders Wilson Jones data.warehouse D-Ring Binders with DublLock 4 26.336	0.2	9.2176
New York City Consumer Supplies Binders Wilson Jones data.warehouse D-Ring Binders with DublLock 4 26.336	0.2	9.2170
New York City Consumer Supplies Envelopes #10 Gummed Flap White Envelopes, 100/Box 4 16.52	0	7.5992
Office		7.3332
New York City Consumer Supplies Envelopes Staple envelope 3 29.34	0	13.4964
Office		
New York City Consumer Supplies Fasteners Advantus Push Pins	0	3.5752
Office Office		
New York CityConsumerSuppliesPaperMemo Book, 100 Message Capacity, 5 3/8" x 11"213.48	0	6.74
Office Office		
New York City Consumer Supplies Paper Xerox 1959 9 60.12	0	28.8576
Office Variation Communication Sampling Page 12.00	0	6.2504
New York City Consumer Supplies Paper Xerox 1993 2 12.96 Office Office	0	6.3504
New York City Consumer Supplies Storage Belkin 19" Center-Weighted Shelf, Gray 2 117.96	0	5.898
Office		3.030
New York City Consumer Supplies Storage Carina Double Wide Media Storage Towers in Natural & Black 3 242.94	0	9.7176
New York City Consumer Technology Accessories Logitech 910-002974 M325 Wireless Mouse for Web Scrolling 3 89.97	0	39.5868
New York City Corporate Furniture Furnishings Floodlight Indoor Halogen Bulbs, 1 Bulb per Pack, 60 Watts 7 135.8	0	66.542
New York City Corporate Furniture Furnishings Tenex B1-RE Series Chair Mats for Low Pile Carpets 1 45.98	0	7.8166
New York City Corporate Furniture Tables Chromcraft Round Conference Tables 3 313.722	0.4	-99.3453
Office		
New York City Corporate Supplies Art Newell 319	0	17.856
Office Office		
New York CityCorporateSuppliesBindersGBC Standard Recycled Report Covers, Clear Plastic Sheets543.12	0.2	15.092
Office Office		
New York City Corporate Supplies Fasteners Staples 6 36.48	0	18.24
New York City Corporate Supplies Storage Gould Plastics 18-Pocket Panel Bin, 34w x 5-1/4d x 20-1/2h 5 459.95	0	10 200
New York City Corporate Supplies Storage Gould Plastics 18-Pocket Panel Bin, 34w x 5-1/4d x 20-1/2h 5 459.95	0	18.398
New York City Corporate Supplies Storage SAFCO Commercial Wire Shelving, 72h 7 428.68	0	0
Home Office		
New York City Office Supplies Paper Xerox 1893 2 81.98	0	40.1702
Oceanside Consumer Furniture Furnishings GE 4 Foot Flourescent Tube, 40 Watt 1 14.98	0	6.8908
Oceanside Consumer Furniture Furnishings Master Caster Door Stop, Brown 4 20.32	0	6.9088
Oceanside Corporate Furniture Furnishings 9-3/4 Diameter Round Wall Clock 5 68.95	0	28.959
Office Recycled Data-Pak for Archival Bound Computer Printouts, 12-		
Oceanside Corporate Supplies Storage 1/2 x 12-1/2 x 16 3 296.37	0	80.0199
Oceanside Corporate Technology Phones iOttie HLCRIO102 Car Mount 2 39.98	0	1.999

	Yonkers	Consumer	Furniture	Tables	Chromcraft Round Conference Tables	8	836.592	0.4	-264.92
	Yonkers	Consumer	Office Supplies	Paper	Easy-staple paper	1	26.38	0	12.1
			Office						
	Yonkers	Consumer	Supplies	Storage	Adjustable Depth Letter/Legal Cart	2	362.92	0	105.2
	Yonkers	Consumer	Technology	Machines	Ativa V4110MDD Micro-Cut Shredder	7	4899.93	0	
New York Sub T							10987.218		3098.6
	Cleveland	Consumer	Furniture	Bookcases	O'Sullivan Living Dimensions 3-Shelf Bookcases	3	301.47	0.5	-241.
	Cleveland	Consumer	Office Supplies	Art	Hunt BOSTON Vista Battery-Operated Pencil Sharpener, Black	2	18.656	0.2	1.63
	Cleveland	Home Office	Technology	Accessories	Verbatim 25 GB 6x Blu-ray Single Layer Recordable Disc, 25/Pack	3	55.176	0.2	15.86
	Cleveland	Home Office	Technology	Phones	Panasonic Kx-TS550	4	110.376	0.4	-20.2
	Columbus	Consumer	Furniture	Furnishings	Advantus Panel Wall Acrylic Frame	5	21.88	0.2	6.2
		Home							
Ohio	Columbus	Office	Furniture	Furnishings	Ultra Door Push Plate	14	54.992	0.2	8.9
	Lancaster	Consumer	Office Supplies	Paper	Xerox 1912	2	30.352	0.2	10.6
	Lancaster	Consumer	Office	Гареі	NEIOX 1312		30.332	0.2	10.0
	Newark	Consumer	Supplies	Art	Newell 34	7	111.104	0.2	8.3
			Office						
	Newark	Consumer	Supplies	Envelopes	Staple envelope	5	46.72	0.2	17
	Springfield	Consumer	Furniture	Bookcases	Bush Andora Bookcase, Maple/Graphite Gray Finish	5	299.975	0.5	-167.9
	Springfield	Consumer	Technology	Phones	Clearsounds A400	4	158.376	0.4	-36.95
	Toledo	Corporate	Furniture	Furnishings	DAX Two-Tone Rosewood/Black Document Frame, Desktop, 5 x 7	2	15.168	0.2	3.7
Ohio Sub Total							1224.245		-393.36
	Philadelphia	Consumer	Office Supplies	Fasteners	Rubber Band Ball	2	5.984	0.2	-1.34
	Philadelphia	Consumer	Technology	Accessories	Plantronics Audio 478 Stereo USB Headset	1	39.992	0.2	7.49
	Philadelphia	Consumer	Technology	Phones	AT&T 17929 Lendline Telephone	4	108.576	0.4	-25.33
	Philadelphia	Corporate	Furniture	Chairs	SAFCO Arco Folding Chair	2	386.68	0.3	-5.5
			Office		0 11 11 0 1				
	Philadelphia	Corporate	Supplies	Art	Newell 312	1	4.672	0.2	0.5
	Philadelphia	Corporate	Office Supplies	Binders	Avery Arch Ring Binders	6	104.58	0.7	-80.1
			Office						
Pennsylvania	Philadelphia	Corporate	Supplies	Binders	GBC VeloBind Cover Sets	5	23.16	0.7	-15
Peririsyivariia			Office						
	Philadelphia	Corporate	Supplies	Binders	Ibico EB-19 Dual Function Manual Binding System	1	51.897	0.7	-41.51
			Office		Recycled Interoffice Envelopes with String and Button Closure, 10				
	Philadelphia	Corporate	Supplies	Envelopes	x 13	3	57.576	0.2	21.5
	Dhile delahie	Components	Office	Domos	Chardinat Carbardon Badi Lattor 7" v 9 1/3"	-	41 24	0.2	12.04
	Philadelphia	Corporate	Supplies Office	Paper	Speediset Carbonless Redi-Letter 7" x 8 1/2"	5	41.24	0.2	13.93
	Philadelphia	Corporate	Supplies	Storage	SAFCO Commercial Wire Shelving, Black	5	552.56	0.2	-138
			Office		0, 2.3		552.55	V.E	
	Philadelphia	Corporate	Supplies	Storage	Space Solutions Industrial Galvanized Steel Shelving.	2	126.08	0.2	-28.3
	Philadelphia	Corporate	Technology	Accessories	Kensington Expert Mouse Optical USB Trackball for PC or Mac	5	379.96	0.2	47.4

		Philadelphia	Corporate	Technology	Machines	Swingline SM12-08 MicroCut Jam Free Shredder	3	449.1	0.7	-643.71
		Philadelphia	Corporate	Technology	Phones	Polycom CX600 IP Phone VoIP phone	3	539.91	0.4	-116.9805
		· · · · · · · · · · · · · · · · · · ·	Home		11101100	- copern creek in them ten phone		000.02	0	
		Philadelphia	Office	Furniture	Furnishings	DAX Charcoal/Nickel-Tone Document Frame, 5 x 7	4	30.336	0.2	9.48
		·	Home	Office						
		Philadelphia	Office	Supplies	Binders	Avery Self-Adhesive Photo Pockets for Polaroid Photos	1	2.043	0.7	-1.4982
			Home							
		Philadelphia	Office	Technology	Accessories	V7 USB Numeric Keypad	3	83.976	0.2	-13.6461
			Home							
		Philadelphia	Office	Technology	Phones	Grandstream GXP1160 VoIP phone	3	68.238	0.4	-12.5103
			Home							
		Philadelphia	Office	Technology	Phones	Wilson SignalBoost 841262 DB PRO Amplifier Kit	2	431.94	0.4	-71.99
	Pennsylvania Su	ıh Total						3488.5		1095.6165
	remisylvama st			Office				3400.3		1093.0103
		Burlington	Corporate	Supplies	Art	4009 Highlighters	6	8.04	0	2.7336
	Vermont	2		Office	7	1000 1110111101110		0.01		2.7000
		Burlington	Corporate	Supplies	Storage	Iceberg Mobile Mega Data/Printer Cart	13	1564.29	0	406.7154
		Burlington	Corporate	Technology	Accessories	Logitech Wireless Marathon Mouse M705	2	99.98	0	42.9914
	Vermont Sub To				•			1672.31		452.4404
East Tota	al							22458.267		3263.2673
				Office						
		Jacksonville	Corporate	Supplies	Art	Newell 337	2	5.248	0.2	0.5904
		Jacksonville	Corporate	Technology	Accessories	Logitech MX Performance Wireless Mouse	6	191.472	0.2	40.6878
		Jacksonville	Corporate	Technology	Phones	Logitech B530 USB Headset - headset - Full size, Binaural	2	59.184	0.2	5.1786
						Deflect-o DuraMat Lighweight, Studded, Beveled Mat for Low				
		Miami	Consumer	Furniture	Furnishings	Pile Carpeting	3	102.36	0.2	-3.8385
		Miami	Consumer	Technology	Phones	Cisco Unified IP Phone 7945G VoIP phone	5	1363.96	0.2	85.2475
	Florida			Office						
		Miami	Corporate	Supplies	Labels	Avery 518	4	10.08	0.2	3.528
			Home	Office						
		Tampa	Office	Supplies	Binders	Avery Arch Ring Binders	2	34.86	0.7	-26.726
		Tomno	Home	Office	Dindors	Avery Durable Slant Bing Binders With Label Helder	,	2.762	0.7	2.7500
		Tampa	Office Home	Supplies Office	Binders	Avery Durable Slant Ring Binders With Label Holder	3	3.762	0.7	-2.7588
South		Tampa	Office	Supplies	Storage	Standard Rollaway File with Lock	3	432.456	0.2	32.4342
	Florida Sub Tota		Torrice	Jappines	Jordage	Standard Hondway File With Look	3	2203.382	0.2	134.3432
	1.01144 545 1016			Office				2203.302		13 1.3 7.3 2
		Atlanta	Consumer	Supplies	Binders	Avery Durable Slant Ring Binders, No Labels	4	15.92	0	7.4824
				Office						
		Atlanta	Consumer	Supplies	Storage	Tennsco Double-Tier Lockers	6	1350.12	0	175.5156
			Home	Office		Fellowes PB500 Electric Punch Plastic Comb Binding Machine				
	C	Atlanta	Office	Supplies	Binders	with Manual Bind	1	1270.99	0	635.495
	Georgia		Home	Office						
		Atlanta	Office	Supplies	Envelopes	#10 White Business Envelopes,4 1/8 x 9 1/2	8	125.36	0	58.9192
		Columbus	Corporate	Furniture	Furnishings	DAX Two-Tone Silver Metal Document Frame	1	20.24	0	8.7032
		Columbus	Corporate	Furniture	Furnishings	Eldon Expressions Wood and Plastic Desk Accessories, Oak	4	39.92	0	11.1776
				Office		Acco Flexible ACCOHIDE Square Ring Data Binder, Dark Blue, 11				
		Columbus	Corporate	Supplies	Binders	1/2" X 14" 7/8"	2	32.54	0	15.9446

	Columbus	Corporate	Technology	Accessories	First Data FD10 PIN Pad	4	316	0	3
		Home	E	e	Side a torono Social Book Account in Branco d		76.00		24.5
	Columbus	Office	Furniture Office	Furnishings	Eldon Image Series Desk Accessories, Burgundy	4	76.92	0	31.5
	Columbus	Home Office	Supplies	Storage	Iceberg Mobile Mega Data/Printer Cart	4	481.32	0	125.1
	Columbus	Home	Supplies	Storage	iceberg Mobile Mega Data/Frinter Cart	4	401.32	0	123.1
	Smyrna	Office	Furniture	Bookcases	Bush Andora Bookcase, Maple/Graphite Gray Finish	2	239.98	0	52.7
	oya	Home	T difficult	Dooneases	Bushing and Bushease, maple, Graphice Gray i mish		200.00	-	32.7
	Smyrna	Office	Furniture	Furnishings	Howard Miller 13" Diameter Goldtone Round Wall Clock	3	18.84	0	7.:
		Home	Office						
	Smyrna	Office	Supplies	Envelopes	Ames Color-File Green Diamond Border X-ray Mailers	2	167.96	0	78.
		Home	Office						
	Smyrna	Office	Supplies	Fasteners	Revere Boxed Rubber Bands by Revere	5	9.45	0	(
		Home	Office						
	Smyrna	Office	Supplies	Paper	White Computer Printout Paper by Universal	9	348.84	0	170.
	6	Home	Office		White Dual Perf Computer Printout Paper, 2700 Sheets, 1 Part,		422.27		
	Smyrna	Office	Supplies	Paper	Heavyweight, 20 lbs., 14 7/8 x 11	3	122.97	0	60.
	Smyrna	Home Office	Office	Paper	Xerox 1943	7	342.37		160
	Smyrna	Home	Supplies Office	Paper	ACIUX 1343	/	342.37	0	160
	Smyrna	Office	Supplies	Storage	Belkin 19" Vented Equipment Shelf, Black	3	154.44	0	1
	Jinyina	Home	Office	3.0.080	Tomas 25 Tomas Equipment offers, Black	3	251.17		_
	Smyrna	Office	Supplies	Storage	Carina 42"Hx23 3/4"W Media Storage Unit	1	80.98	0	1
	,	Home			·				
	Smyrna	Office	Technology	Phones	Aastra 57i VoIP phone	3	484.83	0	126
		Home							
	Smyrna	Office	Technology	Phones	Plantronics Cordless Phone Headset with In-line Volume - M214C	3	104.85	0	28
Georgia Sub To							5804.84		1790
	Henderson	Consumer	Furniture	Furnishings	Eldon Cleatmat Plus Chair Mats for High Pile Carpets	4	318.08	0	34
Kentucky	l		Office						
,	Henderson	Consumer	Supplies	Binders	Wilson Jones "Snap" Scratch Pad Binder Tool for Ring Binders	1	5.8	0	
	Richmond	Consumer	Furniture	Chairs	Hon Multipurpose Stacking Arm Chairs	4	866.4	0	22
Kentucky Sub T	otal		O.C.				1190.28		262
Louisiana	Monroe	Cornerate	Office	Paper	Varov 219	2	12.06		
Louisiana Sub T		Corporate	Supplies	Paper	Xerox 218	2	12.96 12.96	0	6
Louisiana Sub T		Cornerate	Eurpituro	Eurnichings	Eldon Imago Sorios Dock Accessorios Eberry	7			6
	Gulfport	Corporate	Furniture Office	Furnishings	Eldon Image Series Desk Accessories, Ebony	7	86.45	0	3
	Gulfport	Corporate	Supplies	Binders	XtraLife ClearVue Slant-D Ring Binders by Cardinal	4	31.36	0	
Mississippi	Ganport	Corporate	Office	Diriders	The desired State Diving Directs by Caramar	4	31.30	0	
	Jackson	Consumer	Supplies	Art	Panasonic KP-150 Electric Pencil Sharpener	7	264.18	0	68
		Home	Office						
	Jackson	Office	Supplies	Paper	Xerox 1964	16	365.44	0	168
Mississippi Sub	Total						747.43		290
	Charlotte	Corporate	Technology	Copiers	Hewlett Packard 310 Color Digital Copier	4	959.968	0.2	11
	Fayetteville	Consumer	Furniture	Bookcases	Sauder Forest Hills Library, Woodland Oak Finish	4	451.136	0.2	-67
North Carolina	Fayetteville	Consumer	Furniture	Furnishings	Eldon Pizzaz Desk Accessories	8	14.272	0.2	4
			Office						
	Fayetteville	Consumer	Supplies	Appliances	Fellowes Mighty 8 Compact Surge Protector	4	64.864	0.2	6.

				Office						
		Jacksonville	Consumer	Supplies	Storage	Tenex Personal Self-Stacking Standard File Box, Black/Gray	5	67.64	0.2	5.9185
		Jacksonville	Consumer	Technology	Accessories	Case Logic 2.4GHz Wireless Keyboard	3	119.976	0.2	-17.9964
		Raleigh	Consumer	Office Supplies	Art	Newell 319	3	47.616	0.2	5.952
		Raleigh	Consumer	Office Supplies	Binders	XtraLife ClearVue Slant-D Ring Binder, White, 3"	7	30.828	0.7	-24.6624
		Raleigh	Consumer	Technology	Phones	Avaya 5410 Digital phone	2	108.784	0.2	10.8784
		Raleigh	Home Office	Technology	Phones	Samsung Galaxy S4 Mini	3	1127.976	0.2	126.8973
	North Carolina	Sub Total						2993.06		170.081
						Deflect-o EconoMat Studded, No Bevel Mat for Low Pile				
		Chattanooga	Corporate	Furniture	Furnishings	Carpeting	4	132.224	0.2	-18.1808
		Columbia	Consumer	Office Supplies	Appliances	Hoover WindTunnel Plus Canister Vacuum	3	871.8	0.2	87.18
	Tennessee	Memphis	Consumer	Furniture	Tables	Balt Solid Wood Rectangular Table	3	189.882	0.4	-94.941
		Nashville	Consumer	Office Supplies	Paper	Speediset Carbonless Redi-Letter 7" x 8 1/2"	2	16.496	0.2	5.5674
		INASTIVITE	Consumer	Office	гареі	Speediset Carboniess Neur-Letter 7 x 8 1/2	2	10.490	0.2	3.3074
		Nashville	Corporate	Supplies	Binders	Ibico Recycled Grain-Textured Covers	3	31.086	0.7	-20.724
	Tennessee Sub		Corporate	Supplies	- Dillacis	Island recognical craim restained covers	3	1241.488	0.7	-41.0984
		Arlington	Consumer	Furniture	Furnishings	Acrylic Self-Standing Desk Frames	7	18.69	0	7.1022
		Arlington	Consumer	Office Supplies	Binders	Presstex Flexible Ring Binders	8	36.4	0	18.2
		Arlington	Consumer	Technology	Machines	HP Designjet T520 Inkjet Large Format Printer - 24" Color	5	8749.95	0	2799.984
		Armigion	Consumer	Office	iviaciiiies	The Designijet 1320 linkjet Large Portifat Frinter - 24 Color	3	6749.93	0	2799.964
		Arlington	Corporate	Supplies	Storage	Hanging Personal Folder File	2	31.4	0	7.85
		Arlington	Corporate	Office Supplies	Storage	X-Rack File for Hanging Folders	5	56.45	0	14.677
	Virginia	Springfield	Consumer	Office Supplies	Labels	Permanent Self-Adhesive File Folder Labels for Typewriters by Universal	3	7.83	0	3.6018
		Springfield	Consumer	Technology	Accessories	Micro Innovations USB RF Wireless Keyboard with Mouse	4	100	0	21
		Waynesboro	Home Office	Furniture	Furnishings	Howard Miller 14-1/2" Diameter Chrome Round Wall Clock	2	127.88	0	40.9216
		,,	Home	Office						
		Waynesboro	Office	Supplies	Appliances	Eureka The Boss Lite 10-Amp Upright Vacuum, Blue	2	160.32	0	44.8896
			Home	Office						
		Waynesboro	Office	Supplies	Binders	Ibico Covers for Plastic or Wire Binding Elements	4	46	0	20.7
	Virginia Sub To	tal						9334.92		2978.9262
South To	otal							23528.36		5592.0759
				Office						
		Glendale	Consumer	Supplies	Binders	GBC Standard Recycled Report Covers, Clear Plastic Sheets	3	9.702	0.7	-7.1148
				Office				4.5.1		
		Glendale	Corporate	Supplies	Storage	Mini 13-1/2 Capacity Data Binder Rack, Pearl	1	104.696	0.2	6.5435
West	Arizona	Conttodala	Home	Office	Appliances	Belkin 7 Outlet SurgeMaster Surge Protector with Phone	_	157.02	0.2	17.700
		Scottsdale	Office Home	Supplies	Appliances	Protection	5	157.92	0.2	17.766
		Scottsdale	Office	Technology	Phones	Jabra BIZ 2300 Duo QD Duo Corded Headset	2	203.184	0.2	15.2388
		Sierra Vista	Consumer	Furniture	Furnishings	Nu-Dell Float Frame 11 x 14 1/2	2	14.368	0.2	3.9512

Arizona Sub To	otal						489.87		
					Logitech G500s Laser Gaming Mouse with Adjustable Weight				
	Fresno	Corporate	Technology	Accessories	Tuning	5	349.95	0	
	Fresno	Corporate	Technology	Phones	netTALK DUO VoIP Telephone Service	9	377.928	0.2	
	Los Angeles	Consumer	Furniture	Furnishings	DAX Cubicle Frames, 8-1/2 x 11	7	59.99	0	
			Office						
	Los Angeles	Consumer	Supplies	Binders	Wilson Jones Active Use Binders	2	11.648	0.2	
			Office						
	Los Angeles	Consumer	Supplies	Fasteners	Acco Clips to Go Binder Clips, 24 Clips in Two Sizes	3	10.65	0	
	1		Office				40.00		
	Los Angeles	Consumer	Supplies	Paper	Hammermill Color Copier Paper (28Lb. and 96 Bright)	2	19.98	0	-
	Los Angolos	Consumor	Office	Danas	Vorey 1002	1	F 00		
	Los Angeles	Consumer	Supplies Office	Paper	Xerox 1983	1	5.98	0	
	Los Angeles	Consumer	Supplies	Storage	Recycled Steel Personal File for Hanging File Folders	2	114.46	0	
	LOS Aligeres	Consumer	Office	Storage	Recycled Steel Fersonal File for Hanging File Folders		114.40	0	
	Los Angeles	Consumer	Supplies	Storage	Rogers Deluxe File Chest	4	87.92	0	
	Los Angeles	Consumer	Technology	Accessories	Imation 8GB Mini TravelDrive USB 2.0 Flash Drive	3	90.57	0	
	Los Angeles	Consumer	Technology	Accessories	Memorex Mini Travel Drive 64 GB USB 2.0 Flash Drive	1	36.24	0	
	Los Angeles	Consumer	Technology	Phones	AT&T 1070 Corded Phone	5	445.96	0.2	
	20374166163	Consumer	Office	THORES	THE 1970 COINCE THORE		113.30	0.2	
	Los Angeles	Corporate	Supplies	Art	Newell 345	2	39.68	0	
	0111		Office					-	
	Los Angeles	Corporate	Supplies	Binders	Avery Heavy-Duty EZD Binder With Locking Rings	7	31.248	0.2	
			Office		Wilson Jones Clip & Carry Folder Binder Tool for Ring Binders,				
California	Los Angeles	Corporate	Supplies	Binders	Clear	4	18.56	0.2	
			Office						
	Los Angeles	Corporate	Supplies	Paper	Xerox 1883	4	105.52	0	
			Office						
	Los Angeles	Corporate	Supplies	Storage	Fellowes Officeware Wire Shelving	5	449.15	0	
	1		Office				02.02		
	Los Angeles	Corporate	Supplies	Storage	Safco Commercial Shelving	2	93.02	0	-
	Los Angeles	Corporate	Technology	Accessories	SanDisk Ultra 16 GB MicroSDHC Class 10 Memory Card	1	12.99	0	
	Los Angeles	Corporate	Technology	Phones	Motorola L703CM	5	623.96	0.2	
	Los Angolos	Home	Office	Danas	Facultania nanor	5	56.7		
	Los Angeles	Office Home	Supplies Office	Paper	Easy-staple paper	3	56.7	0	-
	Los Angeles	Office	Supplies	Paper	Rediform Voice Mail Log Books	5	14.9	0	
	Los / trigeres	Home	Office	Tuper	Neuronn voice man Edg Books		14.5		
	Los Angeles	Office	Supplies	Paper	Tops Green Bar Computer Printout Paper	3	146.82	0	
	8.00	Home							
	Los Angeles	Office	Technology	Accessories	Kingston Digital DataTraveler 16GB USB 2.0	3	26.85	0	
		Home							
	Los Angeles	Office	Technology	Machines	Okidata MB760 Printer	3	3357.6	0.2	
		Home							
	Los Angeles	Office	Technology	Phones	Apple iPhone 5	8	4158.912	0.2	
		Home							
	Los Angeles	Office	Technology	Phones	AT&T 1080 Phone	1	109.592	0.2	
		Home	Office						
	Oakland	Office	Supplies	Art	Panasonic KP-350BK Electric Pencil Sharpener with Auto Stop	1	34.58	0	

	Riverside	Home Office	Office Supplies	Binders	Cardinal EasyOpen D-Ring Binders	7	51.184	0.2	1
	San Diego	Consumer	Furniture	Chairs	Global Ergonomic Managers Chair	7	1013.488	0.2	76
	San Diego	Consumer	Furniture	Chairs	Global Super Steno Chair	2	153.568	0.2	-5
	San Diego	Consumer	Furniture	Tables	Chromcraft Round Conference Tables	4	557.728	0.2	(
	Sun Brego		Office	142.63	Cili di il dil d	<u> </u>	3371720	0.2	
	San Diego	Consumer	Supplies	Labels	Avery 475	3	44.4	0	
			Office		· ·				
	San Diego	Consumer	Supplies	Labels	Avery 476	5	20.65	0	
			Office						
	San Diego	Consumer	Supplies	Labels	Avery 508	3	14.73	0	
			Office						
	San Diego	Consumer	Supplies	Storage	Fellowes Mobile File Cart, Black	3	186.54	0	ļ
	San Diego	Consumer	Technology	Phones	Anker Astro 15000mAh USB Portable Charger	4	159.968	0.2	-;
		Home	Office						
	San Diego	Office	Supplies	Art	Berol Giant Pencil Sharpener	1	16.99	0	
			Office						
	San Francisco	Consumer	Supplies	Binders	GBC Wire Binding Strips	2	50.784	0.2	
	C F	6	Office	D'. d	H D. I. 57 D. D'. d	2	47.456	0.2	
	San Francisco	Consumer	Supplies Office	Binders	Heavy-Duty E-Z-D Binders	2	17.456	0.2	
	San Francisco	Consumer	Supplies	Labels	Avory F12	9	26.01	0	
	Sall Flaticisco	Consumer	Office	Labels	Avery 512	9	20.01	0	
	San Francisco	Consumer	Supplies	Paper	Xerox 1880	2	70.88	0	
	Santrancisco	Consumer	Office	Тарсі	ACTON 1000		70.00		
	San Francisco	Consumer	Supplies	Storage	File Shuttle II and Handi-File, Black	9	305.01	0	
	San Francisco	Consumer	Technology	Phones	i.Sound Portable Power - 8000 mAh	2	84.784	0.2	-:
	San Francisco	Corporate	Furniture	Chairs	Global Comet Stacking Arm Chair	4	1352.032	0.2	
	San Francisco	Corporate	Furniture	Chairs	Hon 4070 Series Pagoda Round Back Stacking Chairs	3	770.352	0.2	
	San Francisco	Corporate	Furniture	Furnishings	Executive Impressions 10" Spectator Wall Clock	3	35.28	0	
	San Francisco	Corporate	Furniture	Furnishings	Westinghouse Mesh Shade Clip-On Gooseneck Lamp, Black	2	28.28	0	
	Santianoisco	Corporate	Office	l armsmigs	Westinghouse Wesh shade onp on eduseneou zamp) shak		20.20		
	San Francisco	Corporate	Supplies	Appliances	Euro-Pro Shark Turbo Vacuum	5	154.9	0	
			Office						
	San Francisco	Corporate	Supplies	Binders	Avery Round Ring Poly Binders	2	4.544	0.2	
			Office						
	San Francisco	Corporate	Supplies	Envelopes	Security-Tint Envelopes	4	30.56	0	
			Office						
	San Francisco	Corporate	Supplies	Storage	Tennsco Stur-D-Stor Boltless Shelving, 5 Shelves, 24" Deep, Sand	5	676.55	0	
			Office						
	San Francisco	Corporate	Supplies	Supplies	Elite 5" Scissors	3	25.35	0	
			Office	6 "			4048 = 2		
	San Francisco	Corporate	Supplies	Supplies	High Speed Automatic Electric Letter Opener	3	4912.59	0	19
	San Francisco	Corporate	Technology	Accessories	Logitech 910-002974 M325 Wireless Mouse for Web Scrolling	3	89.97	0	
	San Francisco	Corporate	Technology	Accessories	Maxell 4.7GB DVD+RW 3/Pack	2	31.86	0	
California Sub	Total				21777.796		22		
Colorado	Denver	Corporate	Technology	Phones	RCA ViSYS 25423RE1 Corded phone	2	159.984	0.2	
	Littleton	Consumer	Furniture	Bookcases	Atlantic Metals Mobile 2-Shelf Bookcases, Custom Colors	1	72.294	0.7	-6
Colorado Sub T	otal						232.278		-8

			Office						
Idaha	Pocatello	Consumer	Supplies	Binders	Wilson Jones Hanging View Binder, White, 1"	3	17.04	0.2	
Idaho			Office		Adams Telephone Message Book W/Dividers/Space For Phone				
	Pocatello	Consumer	Supplies	Paper	Numbers, 5 1/4"X8 1/2", 300/Messages	3	17.64	0	
Idaho Sub Tota	I						34.68		
	North Las								
Nevada	Vegas	Corporate	Technology	Accessories	Logitech ClearChat Comfort/USB Headset H390	2	58.58	0	
Nevada Sub To	tal						58.58		
Oregon	Gresham	Corporate	Technology	Phones	BlackBerry Q10	4	403.168	0.2	
Oregon Sub To	tal						403.168		
	Longview	Consumer	Furniture	Furnishings	DAX Value U-Channel Document Frames, Easel Back	5	24.85	0	
	Seattle	Consumer	Furniture	Bookcases	O'Sullivan 2-Shelf Heavy-Duty Bookcases	1	48.58	0	
	Seattle	Consumer	Furniture	Chairs	Global Deluxe High-Back Office Chair in Storm	4	435.168	0.2	-
Washington			Office						
	Seattle	Consumer	Supplies	Paper	Xerox 218	2	12.96	0	
	Seattle	Corporate	Furniture	Chairs	Global High-Back Leather Tilter, Burgundy	2	196.784	0.2	-
	Seattle	Corporate	Furniture	Furnishings	Contract Clock, 14", Brown	5	109.9	0	
Washington Su	b Total						828.242		-
otal							23824.614		21

Note: The above operational report is for Q1 of the year 2020. For the operational reports of all the other quarters, refer to the "Operational Reports" folder in "Group7_Project_B.zip".

The Operational report can be produced by passing the start and the end datetime of the period for which the report is to be produced to the stored proc named 'operational_report'. The call for the same can be made by using the below command:

CALL `gbc_superstore`.`operational_report`(<{IN quarter_start_date date}>, <{IN quarter_end_date date}>);

Executive Report for Q1 2020

Geographic				Q1 2020 VS Q4		Q1 2020 VS Q1	Participation In	Participation In Q1	Participation In Q1	
Area	Туре	Q1 2020	Q4 2019	2019	Q1 2019	2019	2019	2019	2020	Trend
111::-	Sales	4959.93400	4591.99200	8.012688175	1937.97000	155.934508790	18.741963802	16.812537204	24.979770398	个
Illinois	Profit	-833.70360	46.86360	-1879.000332881	-841.18980	-0.889953730	-8.588040037	422.078929516	228.814659005	\downarrow
la dia na	Sales	150.88000	2890.21000	-94.779618090	196.65000	-23.274853801	6.739444833	1.706004449	0.759878611	\downarrow
Indiana	Profit	74.54080	1077.22730	-93.080309049	76.66550	-2.771389999	16.960246389	-38.468003500	-20.458143319	\downarrow
N.4:	Sales	63.44000	2165.12000	-97.069908365	171.50000	-63.008746356	5.765997210	1.487819796	0.319503573	\downarrow
Minnesota	Profit	27.97760	644.34320	-95.657966127	74.37980	-62.385486382	14.497997385	-37.321121062	-7.678610244	1
Misseyvi	Sales	697.16000	6680.72000	-89.564597828	NA	NA	7.089483254	NA	3.511114610	\downarrow
Missouri	Profit	146.40360	2825.00060	-94.817572782	NA	NA	24.651814880	NA	-40.181294421	\downarrow
Oklahama	Sales	2962.11000	1971.46000	50.249561239	NA	NA	2.850262111	NA	14.918107316	\downarrow
Oklahoma	Profit	601.08780	439.31380	36.824247269	NA	NA	5.624982332	NA	-164.971939655	\downarrow
T	Sales	8786.46900	9920.39220	-11.430225511	5462.71360	60.844401581	31.570878533	47.390865512	44.251390891	\downarrow
Texas	Profit	-1007.68810	-42.04670	2296.592598230	-488.01420	106.487454668	-19.236427994	244.868056085	276.565687116	1
\A/:	Sales	2235.81000	2685.68000	-16.750692562	3558.62000	-37.171993638	8.486632752	30.872217395	11.260234602	\downarrow
Wisconsin	Profit	627.02430	706.98180	-11.309697081	908.97400	-31.018455973	17.406606856	-456.090614601	-172.090358483	\downarrow
Control Total	Sales	19855.80300	39063.59720	-49.170572033	11526.93360	72.255724627	100.00000000	100.00000000	100.00000000	\downarrow
Central Total	Profit	-364.35760	7606.58290	-104.790029962	-199.29680	82.821600748	100.00000000	100.00000000	100.00000000	\downarrow
Commontions	Sales	392.88700	26.90000	1360.546468401	NA	NA	0.884566441	NA	1.749409249	\downarrow
Connecticut	Profit	77.86400	13.18100	490.729079736	NA	NA	2.092278080	NA	2.386074840	\downarrow
5.1	Sales	162.52000	2077.00000	-92.175252768	2139.00000	-92.402057036	3.706439704	15.364467582	0.723653343	\downarrow
Delaware	Profit	78.33500	566.25890	-86.166221847	506.00780	-84.519013343	6.551237098	19.469245012	2.400508227	1
NA Il	Sales	3053.01100	1196.34000	155.195930923	2631.80000	16.004673607	5.400541709	18.904257028	13.594152211	\downarrow
Maryland	Profit	707.41740	352.72730	100.556463875	1296.13960	-45.421203086	13.293119825	49.870494964	21.678193509	\downarrow
	Sales	475.53000	1880.13800	-74.707707626	32.55000	1360.921658986	4.562466235	0.233807115	2.117394009	1
Massachusetts	Profit	134.50540	496.59970	-72.914723871	13.74000	878.933042213	9.579420047	0.528662654	4.121801484	1
New	Sales	159.98000	3552.07400	-95.496152389	724.34000	-77.913686943	2.991866408	5.202944576	0.712343477	\downarrow
Hampshire	Profit	57.59280	528.97750	-89.112429168	339.55700	-83.038841785	4.412305311	13.064854788	1.764881473	\downarrow
Na Ianaa	Sales	842.06600	2643.06000	-68.140488676	286.79000	193.617629624	2.664165610	2.060016670	3.749470073	1
New Jersey	Profit	145.40670	739.51860	-80.337654793	74.56540	95.005592406	5.949885038	2.868991431	4.455862381	1
NaVaul	Sales	10987.21800	32524.28800	-66.218421138	5622.15500	95.427162716	50.475640721	40.384019747	48.922822050	\uparrow
New York	Profit	3098.68390	9520.33850	-67.451956671	815.81030	279.828974947	85.156759372	31.389260430	94.956484257	1
OL:	Sales	1224.24500	8499.93800	-85.597012590	1694.29600	-27.743145236	9.409883999	12.170152392	5.451199774	1
Ohio	Profit	-393.36180	-2843.20230	-86.164832520	-369.61750	6.424019425	-19.293575238	-14.221467867	-12.054231659	\downarrow
Danier de ania	Sales	3488.50000	5731.38000	-39.133332635	790.80100	341.135001094	14.123162532	5.680334889	15.533255527	\downarrow
Pennsylvania	Profit	-1095.61650	-1163.89400	-5.866298821	-77.19170	1319.344955481	-19.104998645	-2.970041411	-33.574218698	1
	Sales	1672.31000	5120.10000	-67.338333236	NA	NA	3.525554736	NA	7.446300287	\downarrow
Vermont	Profit	452.44040	1191.92700	-62.041265950	NA	NA	5.838397151	NA	13.864644187	\downarrow
Foot Talul	Sales	22458.26700	63251.21800	-64.493542243	13921.73200	61.318052955	100.000000000	100.000000000	100.000000000	\downarrow
East Total	Profit	3263.26730	9402.43220	-65.293370581	2599.01090	25.558045947	100.000000000	100.000000000	100.000000000	<u> </u>
El l	Sales	2203.38200	5883.54100	-62.550069762	2000.16800	10.159846573	21.075189254	12.229342295	9.364792106	1
Florida	Profit	134.34320	-2090.64880	-106.425909507	254.02930	-47.115076883	-22.373637015	9.960590802	2.402385132	\downarrow
Georgia	Sales	5804.84000	526.34000	1002.868868032	6555.83000	-11.455300092	14.662532045	40.083377544	24.671672824	_

	Profit	1790.23310	79.37560	2155.394730874	3258.91560	-45.066601295	55.855521162	127.783388568	32.013748240	1
Kentucky	Sales	1190.28000	1598.87000	-25.554923164	364.07000	226.937127475	9.933978418	2.225981342	5.058916134	1
	Profit	262.86280	569.27020	-53.824598583	131.07970	100.536620087	35.300456039	5.139687643	4.700630047	\downarrow
Louisiana	Sales	12.96000	NA	NA	NA	NA	1.344656844	NA	0.055082462	\downarrow
	Profit	6.22080	NA	NA	NA	NA	3.776810789	NA	0.111243125	\downarrow
Mississippi	Sales	747.43000	62.46000	1096.653858469	NA	NA	0.442690686	NA	3.176719499	\downarrow
	Profit	290.50720	17.73520	1538.026072444	NA	NA	1.614962173	NA	5.194979560	\downarrow
North Carolina	Sales	2993.06000	1659.81300	80.325133012	5577.67100	-46.338534489	12.538651101	34.102759301	12.721073632	\downarrow
	Profit	170.08100	80.33580	111.712586419	-1616.36310	-110.522450061	-16.360515630	-63.378245842	3.041464441	\downarrow
Tennessee	Sales	1241.48800	2966.63600	-58.151657298	551.26400	125.207523074	12.126648127	3.370514952	5.276559862	\uparrow
	Profit	-41.09840	-779.23840	-94.725824600	15.56640	-364.019940384	-25.352947239	0.610364791	-0.734939953	\uparrow
Virginia	Sales	9334.92000	2864.26000	225.910357300	698.52000	1236.385500773	15.447027527	4.270861337	39.675183481	\downarrow
	Profit	2978.92620	959.35300	210.514086056	239.62530	1143.160133759	39.138125202	9.395804181	53.270489408	\downarrow
South Total	Sales	23528.36000	15975.54000	47.277400326	16355.48300	43.856100123	100.000000000	100.000000000	100.000000000	\downarrow
	Profit	5592.07590	-1063.81000	-625.664911967	2550.34370	119.267540293	100.000000000	100.000000000	100.000000000	\downarrow
Arizona	Sales	489.87000	2441.04900	-79.931988256	NA	NA	5.588334224	NA	2.056150836	\downarrow
	Profit	36.38470	250.92220	-85.499609042	NA	NA	-0.759608253	NA	1.662530449	\downarrow
California	Sales	21777.79600	25378.14200	-14.186799018	12313.99200	76.854069744	62.034105156	54.177924044	91.408809394	1
	Profit	2201.13150	4692.66980	-53.094259903	2082.81970	5.680366860	71.262380320	41.112932830	100.576564922	\downarrow
Colorado	Sales	232.27800	3292.21200	-92.944622035	3.40800	6715.669014085	3.876640628	0.014994192	0.974949689	1
	Profit	-84.80320	-1279.69600	-93.373176129	0.89460	-9579.454504807	-6.596269141	0.017658576	-3.874922761	1
Idaho	Sales	34.68000	NA	NA	NA	NA	0.419859215	NA	0.145563743	\downarrow
	Profit	14.18160	NA	NA	NA	NA	0.587210460	NA	0.648001545	\downarrow
Nevada	Sales	58.58000	1902.87800	-96.921505215	NA	NA	1.639306919	NA	0.245880164	\downarrow
	Profit	19.33140	451.52380	-95.718631000	NA	NA	2.687101779	NA	0.883311973	\downarrow
Oregon	Sales	403.16800	2537.45100	-84.111299095	29.30400	1275.812175812	3.387271257	0.128928936	1.692233083	1
	Profit	25.19800	-88.48820	-128.476113199	2.56410	882.722982723	-0.855050864	0.050612960	1.151375228	1
Washington	Sales	828.24200	6515.73000	-87.288577028	10304.05600	-91.961980797	18.156434147	45.334799901	3.476413091	\downarrow
	Profit	-22.91070	1223.28280	-101.872886629	2950.95270	-100.776383166	28.265389307	58.249074627	-1.046861356	\downarrow
West Total	Sales	23824.61400	44081.85800	-45.953698231	22728.80000	4.821257611	100.000000000	100.00000000	100.00000000	\downarrow
	Profit	2188.51330	5590.02300	-60.849654823	5066.09370	-56.800773345	100.000000000	100.000000000	100.00000000	\downarrow

Note: The above executive report is for Q1 of the year 2020. For the executive reports of all the other quarters, refer to the "Executive Reports" folder in "Group7_Project_B.zip".

The Executive report can be produced by passing the start and the end datetime of the period for which the report is to be produced to the stored proc named 'executive_report'. The call for the same can be made by using the below command:

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