

**MISY 4390**  
**Spring 2012**  
**Dr. Kakoli Bandyopadhyay**  
**Assignment 6**  
**Total Points: 20**  
**Due Date: March 6, 2012**

We will use the Tableau software to work on this assignment. Tableau is used to perform visual analysis for spreadsheet and databases. **We will connect to the spreadsheet sample: Superstore Sales.** The spreadsheet has the following fields:

Order ID	Order Date	Order Priority	Order Quantity	Sales	Discount	Ship Mode	Profit	Unit Price	Shipping Co
3	10/14/2007	Low	6	261.54	0.04	Regular Air	-213.25	38.94	
6	2/20/2009	Not Specified	2	6.93	0.01	Regular Air	-4.64	2.08	
32	7/15/2008	High	15	140.56	0.04	Regular Air	-128.38	8.46	
32	7/15/2008	High	24	1761.4	0.09	Delivery Truck	-1748.56	70.89	
32	7/15/2008	High	23	160.2335	0.04	Regular Air	-85.129	7.99	
32	7/15/2008	High	26	2808.08	0.07	Regular Air	1054.82	107.53	
35	10/22/2008	Not Specified	30	288.56	0.03	Regular Air	60.72	9.11	
35	10/22/2008	Not Specified	14	1892.848	0.01	Regular Air	48.987	155.99	
36	11/2/2008	Critical	46	2484.7455	0.1	Regular Air	657.477	65.99	
65	3/17/2008	Critical	32	3812.73	0.02	Regular Air	1470.3	115.79	
66	1/20/2006	Low	41	108.15	0.09	Regular Air	7.57	2.88	
69	6/4/2006	Not Specified	42	1186.06	0.09	Regular Air	511.69	30.93	
69	6/4/2006	Not Specified	28	51.53	0.03	Express Air	0.35	1.68	
70	12/18/2007	Low	46	7804.53	0.05	Regular Air	2057.166	205.99	
70	12/18/2007	Low	48	90.05	0.03	Regular Air	-107	1.86	
96	4/17/2006	High	37	4158.1235	0.01	Regular Air	1228.887	125.99	
97	1/29/2007	Medium	26	75.57	0.03	Regular Air	28.24	2.89	
129	11/19/2009	Low	4	32.72	0.09	Regular Air	-22.59	6.48	
130	5/8/2009	High	29	575.11	0.02	Regular Air	71.75	18.97	
130	5/8/2009	High	3	461.89	0.05	Express Air	-356.12	150.98	
130	5/8/2009	High	23	236.46	0.05	Regular Air	-134.31	9.71	
132	6/11/2007	Medium	27	192.814	0.03	Regular Air	-86.196	7.99	
132	6/11/2007	Medium	30	4011.65	0.05	Delivery Truck	-603.8	130.98	
134	5/1/2009	Not Specified	11	1132.6	0.01	Regular Air	-310.21	95.99	
135	10/20/2008	Not Specified	25	125.85	0.09	Regular Air	-89.25	4.98	
166	9/11/2008	High	10	567.936	0.02	Express Air	-126.093	65.99	
193	8/8/2007	Critical	14	174.89	0.06	Regular Air	-37.04	12.44	
194	4/5/2009	Medium	49	329.03	0.1	Regular Air	-197.25	7.28	
194	4/5/2009	Medium	6	20.19	0.04	Regular Air	-13.44	3.14	
194	12/29/2007	Medium	24	1215.74	0.02	Regular Air	260.87	26.55	

Sample - Superstore Sales (Excel) [Read-Only] [Compatibility Mode] - Microsoft Excel

Home Insert Page Layout Formulas Data Review View Acrobat

Clipboard Font Alignment Number Styles Cells Editing

A1 fx Order ID

	J	K	L	M	N	O	P
1	Shipping Cost	Customer Name	Customer State	Zip Code	Region	Customer Segment	Product Category
2	35	Muhammed MacIntyre	New Jersey	7514	East	Small Business	Office Supplies
3	2.56	Ruben Dartt	New York	10457	East	Corporate	Office Supplies
4	8.99	Liz Pelletier	Ohio	44197	Central	Corporate	Technology
5	89.3	Liz Pelletier	Ohio	44197	Central	Corporate	Furniture
6	5.03	Liz Pelletier	Ohio	44197	Central	Corporate	Technology
7	5.81	Liz Pelletier	Ohio	44197	Central	Corporate	Furniture
8	2.25	Julie Creighton	Michigan	49822	Central	Corporate	Office Supplies
9	8.99	Julie Creighton	Michigan	49822	Central	Corporate	Technology
10	4.2	Sample Company A	Connecticut	6074	East	Home Office	Technology
11	1.99	Tamara Dahlen	Delaware	19936	East	Corporate	Technology
12	0.7	Arthur Gainer	North Carolina	27006	South	Consumer	Office Supplies
13	3.92	Jonathan Doherty	Ohio	43567	Central	Corporate	Furniture
14	0.7	Jonathan Doherty	Ohio	43567	Central	Corporate	Office Supplies
15	5.99	Helen Wasserman	North Carolina	27006	South	Home Office	Technology
16	2.58	Helen Wasserman	North Carolina	27006	South	Home Office	Office Supplies
17	8.99	Keith Dawkins	Texas	73301	Central	Home Office	Technology
18	0.5	Craig Yedwab	Arizona	85354	West	Consumer	Office Supplies
19	8.19	Pauline Chand	Connecticut	6439	East	Corporate	Office Supplies
20	9.03	Roy Collins	Florida	32003	South	Corporate	Office Supplies
21	13.99	Roy Collins	Florida	32003	South	Corporate	Technology
22	9.45	Roy Collins	Florida	32003	South	Corporate	Office Supplies
23	5.03	Emily Phan	Maryland	21290	South	Consumer	Technology
24	54.74	Emily Phan	Maryland	21290	South	Consumer	Furniture
25	35	Michael Dominguez	Colorado	81221	West	Home Office	Office Supplies
26	4.62	Anne Pryor	Ohio	43054	Central	Consumer	Technology
27	8.99	Valerie Takahito	Utah	84001	West	Consumer	Technology
28	6.27	Justin Hirsh	Arizona	85231	West	Consumer	Office Supplies
29	7.98	Maria Zettner	Georgia	30002	South	Corporate	Furniture
30	1.92	Maria Zettner	Georgia	30002	South	Corporate	Office Supplies
31	13.88	Brad Thomas	Connecticut	6074	East	Home Office	Office Supplies

Orders Returns Users

Ready 100%

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Product Name	Product Container	Product Base Margin	Ship Date
Eldon Base for stackable storage shelf, platinum	Large Box	0.8	10/21/2007
Kleencut® Forged Office Shears by Acme United Corporation	Small Pack	0.55	2/21/2009
Imation 3.5 IBM Diskettes, 10/Box	Small Pack	0.79	7/16/2008
KI Conference Tables	Jumbo Box	0.72	7/16/2008
Bell Sonacor JB700 Caller ID	Medium Box	0.6	7/17/2008
Tenex Contemporary Contur Chairmats for Low and Medium Pile Carpet C	Medium Box	0.65	7/17/2008
Dixon Ticonderoga Core-Lock Colored Pencils	Wrap Bag	0.52	10/23/2008
CF 688	Small Box	0.58	10/24/2008
6162i	Small Box	0.55	11/2/2008
Verbatim DVD-R, 4.7GB, Spindle, WE, Blank, Ink Jet/Thermal, 20/Spindle	Small Pack	0.49	3/18/2008
Newell 340	Wrap Bag	0.56	1/20/2006
Advantus Employee of the Month Certificate Frame, 11 x 13-1/2	Small Pack	0.44	6/6/2006
Newell 308	Wrap Bag	0.6	6/6/2006
3285	Small Box	0.59	12/23/2007
Super Bands, 12/Pack	Wrap Bag	0.82	12/23/2007
SC7868i	Small Box	0.55	4/19/2006
Avery 498	Small Box	0.38	1/30/2007
Xerox 217	Small Box	0.37	11/28/2009
Computer Printout Paper with Letter-Trim Perforations	Small Box	0.37	5/9/2009
Canon MP41DH Printing Calculator	Medium Box	0.38	5/10/2009
Filing/Storage Totes and Swivel Casters	Small Box	0.6	5/11/2009
Bell Sonacor JB700 Caller ID	Medium Box	0.6	6/12/2007
O'Sullivan Elevations Bookcase, Cherry Finish	Jumbo Box	0.69	6/14/2007
Safco Industrial Wire Shelving	Large Box	0.82	5/3/2009
Imation 3.5", DISKETTE 44766 HGHL3.52HD/FM, 10/Pack	Small Pack	0.64	10/22/2008
i270	Small Box	0.55	9/13/2008
Eldon Simplefile® Box Office®	Medium Box	0.57	8/10/2007
Master Caster Door Stop, Large Neon Orange	Wrap Bag	0.42	4/7/2009
Serrated Blade or Curved Handle Hand Letter Openers	Wrap Bag	0.84	4/7/2009
Dixon Ticonderoga Core-Lock Colored Pencils, 48 Color Set	Wrap Bag	0.41	12/20/2007

**Things to do:**

Using Tableau answer the following questions:

1. Which product category (furniture/office supplies/technology) yielded the **maximum sales** in which year (2009/2010/2011/2012)? (4 points)

**Hint:** drag and drop product 1 - category and order date from dimensions to columns and drag and drop sales from the fact table (measures) to rows. **Go to Label > Show Mark Labels.**

Product Category	Year	Sales

2. Which product - category yielded **maximum profit** in which year (4 points)?

Product Category	Year	Profit

3. Which product - category sold for the **maximum quantity** in which year? (6 points)

**Hint:** product - category and order date in columns and order quantity in rows. Click on “show me” icon and choose the stacked bar and click OK. Now find the maximum order quantity for each product category.

Product Category	Maximum Order Quantity	Year
Furniture		
Office Supplies		
Technology		

4. Which region made the maximum profit on which product category? (4 Points)

**Hint:** product category and region in columns and profit in rows. Find out the maximum profit for each region.

Region	Product Category	Profit
Central		
East		
South		
West		

5. Type product sub category had **maximum sales** in which year? (2 points)

**Hint:** product sub-category and order date in columns, and sales in rows. Use “show me” icon and choose aligned bar. Find out the product category which yields maximum sales and the year associated with it.

Product 2 – Sub Category	Sales	Year