

CIS 5270: Business Intelligence

Homework-1

Perform the following questions in Tableau.

Submission instructions: Take screenshots for the following questions, with the final screenshot for each question showing the time on the computer. Paste all screenshots below each question in a Word document. Submit ONLY the word document containing the screenshots. You should clearly indicate which screenshots correspond to which question.

Note: If your screenshot does not have the time displayed on the computer, then you would not receive points for that question.

Starter File for Questions 1 to 3: Totals_and_Aggregation_Starter.twbx

- 1) In the Total Sales sheet, compute the sum of the Grand Totals for the final sheet to look as follows: (5 points)

| Department | Category | AsiaPac | EMEA | Latam | North America | Grand Total |
|-----------------|--------------------------------|--------------|-------------|-------------|---------------|--------------|
| Furniture | Bookcases | \$576,166 | \$206,262 | \$327,693 | \$486,842 | \$1,596,963 |
| | Chairs & Chairmats | \$1,186,950 | \$593,617 | \$436,756 | \$1,137,075 | \$3,354,398 |
| | Office Furnishings | \$420,735 | \$298,246 | \$231,466 | \$435,077 | \$1,385,525 |
| | Tables | \$1,367,835 | \$997,353 | \$551,236 | \$784,506 | \$3,700,931 |
| Office Supplies | Appliances | \$573,057 | \$254,662 | \$190,942 | \$439,912 | \$1,458,573 |
| | Binders and Binder Accessori.. | \$654,309 | \$342,787 | \$433,210 | \$624,117 | \$2,054,422 |
| | Envelopes | \$100,528 | \$58,915 | \$67,353 | \$143,073 | \$369,868 |
| | Labels | \$31,105 | \$9,030 | \$8,790 | \$23,844 | \$72,770 |
| | Paper | \$294,880 | \$145,371 | \$152,198 | \$242,289 | \$834,738 |
| | Pens & Art Supplies | \$113,153 | \$73,917 | \$36,345 | \$99,565 | \$322,980 |
| | Rubber Bands | \$12,183 | \$4,983 | \$5,471 | \$8,264 | \$30,901 |
| | Scissors, Rulers and Trimmers | \$63,474 | \$13,876 | \$56,331 | \$38,252 | \$171,933 |
| | Storage & Organization | \$772,193 | \$444,325 | \$362,523 | \$616,594 | \$2,195,635 |
| Technology | Computer Peripherals | \$596,662 | \$229,379 | \$246,408 | \$485,273 | \$1,557,723 |
| | Copiers and Fax | \$722,735 | \$360,829 | \$500,134 | \$663,450 | \$2,247,147 |
| | Office Machines | \$1,677,165 | \$783,829 | \$587,975 | \$1,273,556 | \$4,322,526 |
| | Telephones and Communicati.. | \$1,639,454 | \$725,871 | \$701,640 | \$1,325,585 | \$4,392,550 |
| Grand Total | | \$10,802,586 | \$5,543,252 | \$4,896,470 | \$8,827,274 | \$30,069,582 |

2) In the Average Sales (Weighted) sheet, compute the average of the Grand Totals for the final sheet to look as follows: (5 points)

| Department | Category | AsiaPac | EMEA | Latam | North America | Grand Total |
|-----------------|--------------------------------|----------|----------|----------|---------------|-------------|
| Furniture | Bookcases | \$5,879 | \$5,893 | \$8,402 | \$2,363 | \$4,225 |
| | Chairs & Chairmats | \$6,314 | \$7,811 | \$6,824 | \$2,561 | \$4,345 |
| | Office Furnishings | \$1,245 | \$1,506 | \$1,503 | \$491 | \$879 |
| | Tables | \$9,119 | \$9,875 | \$8,352 | \$1,937 | \$5,126 |
| | Total | \$4,589 | \$5,111 | \$4,790 | \$1,465 | \$2,911 |
| Office Supplies | Appliances | \$2,851 | \$2,927 | \$2,220 | \$891 | \$1,680 |
| | Binders and Binder Accessori.. | \$1,596 | \$1,723 | \$2,292 | \$605 | \$1,123 |
| | Envelopes | \$986 | \$879 | \$1,321 | \$526 | \$752 |
| | Labels | \$218 | \$164 | \$187 | \$72 | \$126 |
| | Paper | \$561 | \$525 | \$590 | \$174 | \$341 |
| | Pens & Art Supplies | \$406 | \$483 | \$333 | \$137 | \$255 |
| | Rubber Bands | \$149 | \$108 | \$161 | \$42 | \$86 |
| | Scissors, Rulers and Trimmers | \$894 | \$396 | \$2,253 | \$244 | \$597 |
| | Storage & Organization | \$3,139 | \$3,444 | \$3,554 | \$1,003 | \$2,011 |
| | Total | \$1,269 | \$1,286 | \$1,457 | \$429 | \$815 |
| Technology | Computer Peripherals | \$1,690 | \$1,390 | \$1,676 | \$570 | \$1,028 |
| | Copiers and Fax | \$20,650 | \$16,401 | \$27,785 | \$6,702 | \$12,915 |
| | Office Machines | \$10,043 | \$11,198 | \$10,315 | \$3,351 | \$6,413 |
| | Telephones and Communicati.. | \$3,970 | \$4,055 | \$4,032 | \$1,326 | \$2,487 |
| | Total | \$4,789 | \$4,816 | \$5,142 | \$1,609 | \$3,031 |
| Grand Total | | \$2,841 | \$2,927 | \$3,023 | \$931 | \$1,790 |

3) In the Average Sales (Visible) sheet, calculate Totals using Average for the final sheet to look as follows: (5 points)

| Department | Category | AsiaPac | EMEA | Latam | North America | Grand Total |
|-----------------|--------------------------------|----------|----------|----------|---------------|-------------|
| Furniture | Bookcases | \$5,879 | \$5,893 | \$8,402 | \$2,363 | \$5,635 |
| | Chairs & Chairmats | \$6,314 | \$7,811 | \$6,824 | \$2,561 | \$5,877 |
| | Office Furnishings | \$1,245 | \$1,506 | \$1,503 | \$491 | \$1,186 |
| | Tables | \$9,119 | \$9,875 | \$8,352 | \$1,937 | \$7,321 |
| | Total | \$5,639 | \$6,271 | \$6,270 | \$1,838 | \$5,005 |
| Office Supplies | Appliances | \$2,851 | \$2,927 | \$2,220 | \$891 | \$2,222 |
| | Binders and Binder Accessori.. | \$1,596 | \$1,723 | \$2,292 | \$605 | \$1,554 |
| | Envelopes | \$986 | \$879 | \$1,321 | \$526 | \$928 |
| | Labels | \$218 | \$164 | \$187 | \$72 | \$160 |
| | Paper | \$561 | \$525 | \$590 | \$174 | \$462 |
| | Pens & Art Supplies | \$406 | \$483 | \$333 | \$137 | \$340 |
| | Rubber Bands | \$149 | \$108 | \$161 | \$42 | \$115 |
| | Scissors, Rulers and Trimmers | \$894 | \$396 | \$2,253 | \$244 | \$947 |
| | Storage & Organization | \$3,139 | \$3,444 | \$3,554 | \$1,003 | \$2,785 |
| | Total | \$1,200 | \$1,183 | \$1,435 | \$410 | \$1,057 |
| Technology | Computer Peripherals | \$1,690 | \$1,390 | \$1,676 | \$570 | \$1,332 |
| | Copiers and Fax | \$20,650 | \$16,401 | \$27,785 | \$6,702 | \$17,884 |
| | Office Machines | \$10,043 | \$11,198 | \$10,315 | \$3,351 | \$8,727 |
| | Telephones and Communicati.. | \$3,970 | \$4,055 | \$4,032 | \$1,326 | \$3,346 |
| | Total | \$9,088 | \$8,261 | \$10,952 | \$2,987 | \$7,822 |
| Grand Total | | \$4,100 | \$4,046 | \$4,812 | \$1,353 | \$3,578 |