Ryan Ehlinger

Professor Hitchcock

CIT 221 – Data Analysis

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Best Work Assignment

I chose to use one of the ski sales sheets that we worked on fairly early in the semester because I knew there was plenty of stuff that I learned that could be added to it. It was also very clean and organized to begin with and the data was already easy to read so I knew that I wouldn’t have to do a whole lot of little work.

I already started with the Sales Data Sheet, Subtotals Sheet, Catg Info Sheet, and Month Info Sheet. The Sales Data Sheet has all the data in a table and has a multiple level sort to sort the data by Rev Source, then by Month, and finally by Amount from smallest to largest. I also included filters that allow the user to use the drop downs for each field name to filter through the data however they want to, whether it is by Location, Rev Source, or even Category. The Sales Data Sheet also utilizes the SUMIF functions at the bottom of the table to get various totals for all the different Rev Sources. It also uses the DSUM function to get select totals based on the stipulations that I have set right below “Select Total”. The Sales Data Sheet also uses VLOOKUP formulas to fill in the Mon, Qtr, Season, and Category columns through an external reference to the Catg Info and Month Info Sheets.

The Subtotals Sheet is exactly what it is named. It uses the subtotal feature and provides subtotals of all the different Rev Sources. It can be navigated using thee 1, 2, and 3 buttons right below the Name Box. Hitting 2 will display all the subtotals and hitting 3 will display all the data sorted by Rev Source with the subtotals at the end of each source. When on setting 2, the plus buttons along the left side of the worksheet allow you to expand the data for each individual Rev Source independently.

The Catg Info and Month Info sheets were just tables that allowed me to correlate existing data with new data so that I could use a VLOOKUP to add it to the Sales Data Sheet.

The Catg Info Sheet relates a category to each rev source. The Month Info Sheet relates a mon (abbreviate month), a quarter, and a season to each of the months from the original data.

I added in the Pivot Table Sheet more recently, which obviously adds in a pivot table along with a pivot chart. The pivot table allows you to see the income (amount) brought in by each location during each season (offseason and winter). You can toggle the breakdown of seasons for each location on and off by using the plus/minus symbol next to each location. You can also break it down by month or months by using the Month Slicer that I put in. By selecting certain months, you will be able to see the income at each location for the selected months. The pivot chart gives a visual representation to the data in the pivot table and it will change based on the setting applied with the toggles or the slicer.

I think that is my best work because it uses stuff that we learned throughout the semester and it doesn’t just focus on one part of the semester. It is a document that we did early on that involves the simple things of formatting, sorting, and filters. It also incorporates the little bit that we learned about subtotaling. It includes VLOOKUPS which I think was a big takeaway from the semester. The data very neat and organized, which makes it easier to follow, more so than some of the other data that we have worked with throughout the course of the semester. I was also able to incorporate pivot tables, which is one of the bigger skills that we focused on during the second half of the semester.

If I were to continue to work on this document, I would definitely add some more pivot tables. I would add one that looks at the amount per rev source. Possibly another table to look at the count of each rev source per location or per month; maybe even a table for each of those. Adding more pivot tables would just increase the number of ways to break down the data to analyze it.

I would probably also add some min, max, and average on the Sales Data Sheet. I’m not sure how effective it would be though because I could only do it for the amount. The best way to do it would probably be by doing it as a “subtotal” so that I could do it by each revenue source.

All in all, I’m happy with this work. I think it shows a great variety of material learned from throughout the semester and puts it all together to get some really good data analysis.