**IBM Cognos Analytics**

**Questions**

**1. Summarize the *Course Cost* spent by *Year* in a bar chart. Sort the chart in descending order, and answer in which year most course costs were spent.**

**Bar Chart of Course cost by Year:**

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**Summary:**

* From 2013 to 2014, Course costs increased by 29%.
* Across all years, the sum of Course costs is over 8.3 million.
* Course cost ranges from nearly 1.7 million, in 2013, to almost 2.3 million, in 2015.
* For Course cost, the most significant values of Year are 2015, 2014, and 2016, whose respective Course cost values add up to over 6.6 million, or 79.6 % of the total.

As per the Bar chart generated, the year 2015 has the most course cost spent of 2,251,250, followed by 2014 and 2016.

**2. Build a Pie chart to show how *Course Cost* is spent among *Organizations.***

**PIE chart of Course Cost by Organization:**

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* Organization GO Americas corporate has the highest Count Position count but is ranked #11 in Total Course cost.
* Organization GO Central Europe operations has the highest Total Course cost but is ranked #7 in Count Position count.
* Across all organizations, the sum of Course cost is over 8.3 million.
* Course cost ranges from over 431 thousand, when Organization is GO Southern Europe corporate, to nearly 1.1 million, when Organization is GO Central Europe operations.
* For Course cost, the most significant values of Organization are GO Central Europe operations, GO Asia Pacific operations, GO Americas operations, and GO Accessories operations, whose respective Course cost values add up to almost 4.0 million, or 47.7 % of the total.

**3. Build a *Driver analysis*. What implications can you get from this analysis? Should the manager use one-driver or two-driver analysis? Which two drivers should be chosen to predict Course Cost? Why?**

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* The Year 2013 has the lowest average Course cost at over 10 thousand, followed by 2014 at over 14 thousand.
* Year 2016 has the highest average Course cost at almost 15 thousand, followed by 2015 at over 14 thousand.
* From 2013 to 2014, Course costs increased by 34%.

The predictive strength of two drivers is more than one driver analysis, Hence the manager should go with the two-driver analysis. As the Predictive strength of the combination of position and organization has the highest predictive strength of 77% it should be chosen to predict the course cost.