#### **Part One—Identify a Focal Point and a Dependent Variable**

# Target of Analysis:

The Higher Management is extremely critical related to Cost that is spent in the Business Intelligence program what I am working right now. So, the priority is to control and have a clear forecast on the amount of budget we are going to spend related to this program until the end. So as per that the variable of interest for me in this project is “**Cost Per Month related to Cloud Infrastructure**” and predicting it for the duration of time which will last for another 3 years. There are multiple independent variables that are related to / has impact on variable of interest i.e. “**Cost Per Month related to Cloud Infrastructure**”.

1. Identify the dependent variable that will guide your prediction or decision.

Dependent variable: **Cost Per Month related to Cloud Infrastructure**

1. Identify at least three independent variables that you believe have association with the dependent variable. For each independent variable, identify it as quantitative or categorical and discuss its expected impact on the dependent variable.

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| **Independent Variable** | | |
| **Summary of independent variable** | **Categorical or quantitative?** | **Argument for / description of the associates with the dependent variable** |
| Total Number of Tables to be Implemented | Quantitative | In this BI related Development Program we have multiple product development planned every month.  As part of this development, Number of Tables implemented in the Databases will increase every month.  This will have an impact on Sizing and Cost |
| Total Amount of Data Loaded into Tables | Quantitative | Every month Tables count will increase as part of new Development.  This will result in increase of data that is loaded into Cloud.  This will have an impact on Sizing and Cost |
| Size of Cloud Services leveraged | Quantitative | The above factors will impact the size of Cloud Services we leverage so that the performance is optimal.  As the number of tables and data increase We have to increase the size of Cloud Service so that it performs to the expected limits. |