Analyst Performance Task

We are interested in looking at the rates of chronic absenteeism in our district. A student is chronically absent if they missed 10% or more of the days they were enrolled in school. We would like to further define student absences into the following categories:

* Good Attendance (absent < 5% of days)
* Approaching Chronic Absence (absent >=5% & <10% of days)
* Chronically Absent (absent >= 10% & <20 % of days)
* Severely Chronically Absent (absent >= 20% of days)

Please note that the bottom two categories (Chronically Absent and Severely Chronically Absent) both fall into the overall category of chronically absent. Students are counted as chronically absent regardless of their total membership days, meaning a student can be counted as chronically absent if she were only enrolled for 10 days and missed 1 day of school.

The attached excel file (Analyst Performance Task Data) contains attendance data for students from 3 schools. Below is a data dictionary that defines the variables in the file.

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| **Variable Name** | **Variable Description** |
| STUDENT\_NUMBER | Student number (unique identifier) |
| SCHOOLID | Student’s school code for the 2015-2016 year |
| SCHOOL\_NAME | Student’s school name for the 2015-2016 year |
| GRADE\_LEVEL | Student’s grade level for the 2015-2016 year |
| Memsum | Student’s days enrolled (in NPS) in 2015-2016 year |
| Attsum | Student’s days attended (in NPS) in 2015-2016 year |

Please review and summarize the data, focusing on the percentage of students who were in each absence category.

Please present your results as a Power Point Presentation, with no more than 4 slides. Also include your work (either excel file with calculations or code if completed in other statistical analysis program) and briefly describe how you went about completing this task in your email response.