**Class Activity: Data Everywhere**

**Objective:** Engage students in the practical application of data collection, organization, and classification while working collaboratively in groups.

**Part one: Group work**

* Form groups of 5-6 students.
* Each group will be assigned to one topic to generate disaggregated data and input it into a spreadsheet. Choose one (Classroom - Newsroom - Hospital - Airplane - Sport Club - Algona Film Festival) Label them on a piece of paper, put the paper on the wall, and put each group’s related characteristics on the wall by the label.

For example Data in school

| A | B | C | D | F | E |
| --- | --- | --- | --- | --- | --- |
| School Name | School ID |  |  |  |  |

* Add four qualitative variables.
* Add four quantitative variables.
* Highlight the ordinal and discrete variables with yellow color, and highlight the nominal and continuous variables with red color.
  + Qualitative ordinal variables (e.g., grade levels) in yellow.
  + Qualitative nominal variables (e.g., teacher names) in red.
  + Quantitative discrete variables (e.g., number of patients) in yellow.
  + Quantitative continuous variables (e.g., flight duration) in red.

**Part 2: Group Discussion**

* Once each group has entered data into their assigned sheets, reconvene as a class.
* Assign a different group to review and critique the columns and data entered by another group. Encourage constructive feedback and suggestions for improvements.
* Each group should discuss the following aspects:
  + Are the column names clear and descriptive?
  + Is the data well-organized and relevant to the assigned topics?
  + Are there any inconsistencies or errors in the data?
* After the review, ask each group to provide feedback to the group whose sheet they reviewed.

**Part 3: Refinement**

* Based on the feedback received, each group should refine their sheets, making corrections and improvements as needed. Ensure that the column names are clear and the data is well-structured.
* After refinement, share the updated sheets with the class.

**Part 4: Presentation and Discussion**

After data collection and organization, have each group present their spreadsheet and explain their chosen variables and highlighting choices to the class.