

Grading Considerations for Group Projects – Dealing With Data

Class Presentation, Including Business Case: 20%

- All members spoke for *at least* 2 minutes
- The business case is clearly explained
- The business case describes a plausible business need
- The application's benefits are clearly explained
- The data pipeline is clearly explained

Application of Python/SQL Course Material: 60%

- Project package is complete (including raw data inputs and final databases)
- Project package includes a setup README.txt file for the professor and TA
- Code runs without errors with all dependencies met when run as described
- Dependencies are limited and described in the setup README
- Project processes source data to clean and transform it without manual interventions (beyond configuring file paths)
- Project delivers core data application using only code (no Excel/Tableau used for *data* work; Excel/Tableau may be used for visualizations)
- Code applies appropriate use of core Python data structures and SQL table structures
- Code applies appropriate use of Python libraries/functions and/or SQL commands

Complexity of Python/SQL Application: 20%

- Code includes well-named variables and comments
- Code uses UDFs (user-defined functions)
- Code includes regex, Pandas, Matplotlib, Python with SQLite integration, et. cetera
- Pipeline combines Python and SQL (as separate files)