# Mini project: VLookup and Grading Distributions

### Comparing with external data

1. Add the comparison grades to your spreadsheet with Professor Darsow’s grades. You’ll probably want to create a separate tab for the comparison data. (Do you see any problem with comparing these two sets of grades? If so, what tools do we have available to make comparison easier?)

**The problem is the amount of raw data. Compiling the grades into a chart will make a comparison easier/more accessible.**

1. Create a pivot table that computes the mean and standard deviation of grade points for each class’s final grades.

|  |  |
| --- | --- |
| Single Class Table |  |
| **Average - Point System** | **StdDev - Point System** |
| 2.32 | 1.25 |
|  |  |

|  |  |  |
| --- | --- | --- |
| **Row Labels** | **Average - CCAC Grade** | **StdDev - CCAC Grade** |
| **18FA** | **3.15** | **1.18** |
| **final** | **3.05** | **1.37** |
| cit100\_online | 1.89 | 1.66 |
| cit-111-javaintro | 2.84 | 1.38 |
| cit-111-javaintro-north | 3.53 | 0.96 |
| cit-115-introit | 3.00 | 1.61 |
| cit-129-python2 | 3.33 | 1.21 |
| cit-130-javaoo1 | 3.86 | 0.36 |
| dat-102-daintro | 3.26 | 1.10 |
| **midterm** | **3.26** | **0.95** |
| cit100\_online | 2.70 | 1.13 |
| cit115 | 3.64 | 0.50 |
| dat102 | 3.53 | 0.61 |
| java\_no | 3.37 | 0.96 |
| java\_wh | 3.11 | 0.94 |
| javaoo | 3.40 | 1.12 |
| python2 | 3.33 | 0.82 |
| **19SP** | **3.36** | **0.72** |
| **midterm** | **3.36** | **0.72** |
| cit-111-javaintro | 3.55 | 0.69 |
| cit-115-introit | 3.41 | 0.71 |
| cit-129-python2 | 3.22 | 0.67 |
| cit-130-javaoo1 | 2.77 | 0.83 |
| cit-244-javaoo2 | 3.44 | 0.53 |
| dat-102-daintro | 3.79 | 0.43 |
| dat-201-da1 | 3.29 | 0.76 |
| **Grand Total** | **3.21** | **1.08** |

*Source: BG\_DAT201\_Week01\_Data\_Cleaning.xlsx*

1. Create a frequency distribution (a histogram) which graphically shows the distribution of the midterm and final grades for at least two of the classes (Probably CIT-111, since there are the most students, and perhaps CIT-100 which was offered online.)

*Source: BG\_DAT201\_Week01\_Data\_Cleaning.xlsx*

1. Compose a set of defensible statements comparing the grade distribution in each course based on the data revealed in the spreadsheet. Are the data skewed in a certain direction? Which course without point-based grading is most similar to the point-based counterpart (the comparison data)? Which is most different?

**The Darsow-grading style leads to higher grades overall. Comparing to the point-graded class, the Darsow-graded classes have higher proportion of A’s & B’s, while the students in the point-graded class were more likely to score B’s & C’s.**

**The closest Darsow-grading class to the point-graded class was “cit-130-javaoo1, midterm.” While this class is closer than the other Darsow-grading classes, it still isn’t very similar.**

**The most different class is “cit-111-javaintro-north.” This class had 13 A’s, 5 B’s, and 1 F. The majority of students earned an A or B, while in the point-graded class, the majority earned a B or C (also more F’s).**