

CEE 412/CET 522 Transportation Data Management and Visualization

Assignment 1 | Winter 2020

Complete the Excel Exercise individually and submit the Excel workbooks. Your answers to the following questions should be included in a separate document.

1. Write down any problems you encounter or questions you may have for me. Take a screenshot of each Power View report you created and paste them here. [10 points]
2. In the Excel Exercise Part 1, when creating the Pivot table, you need to use “*REPORT NUMBER” from Vehicles table rather than from Accidents table as the summarized value (page 18). Why? (You may try using report number from the other table to see what happens.) [10 points]
3. Briefly discuss the relationship between the E1_STloopdat and E1_STcabinets tables in Excel Exercise Part 2. You can refer to page 17 in Lecture 2. [10 points]
4. Provide some practical examples of the different relationship types, again as defined in page 17 in Lecture 2. To do this, consider some real world set of things (objects, transactions, observations, etc.) for which we might want to save data, and discuss how they might be related in terms of the three definitions. [10 points]

5. Compare the functionalities of Power Pivot and Power View. In other words, how is Power Pivot related to Power View? Is Power View a replacement for Power Pivot? [5 points]
6. Many transportation companies and public agencies use excel for managing their data. In your opinion, what are the advantages and disadvantages of using excel for managing data. Please limit your answer to two advantages/disadvantages. [5 points]