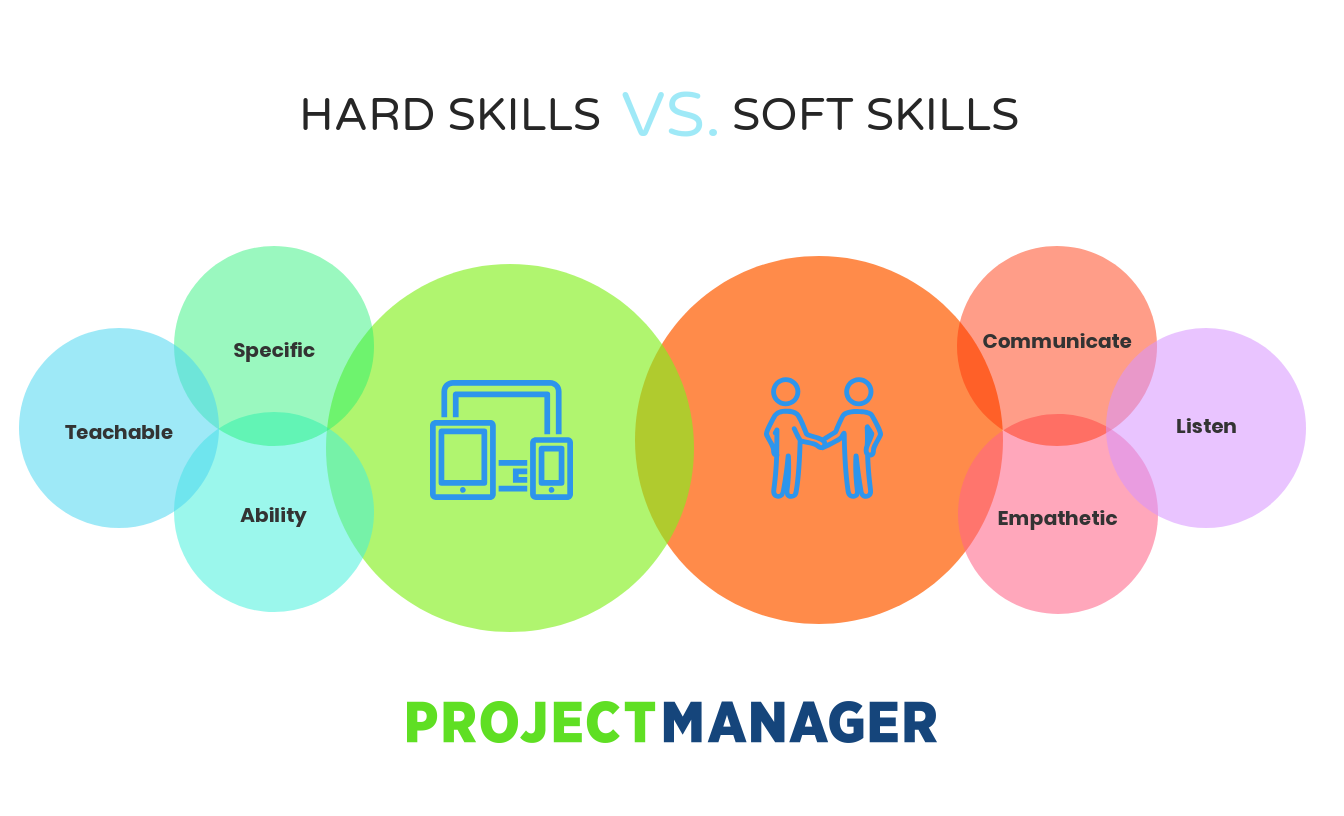
**Quest 4** 

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| Name: | Lucas Johnson |
| Instructions: | * According to several studies, the industry values documentation and excellent written and oral communication skills. The purpose of this part of the class is to encourage you to gain these skills. * Rename this document, fill-out this form, and submit it to the same link where you retrieved this material. * Backup your work; you may need this in the future or as part of an exam. * Organizations value attention to detail. As part of cultivating a culture of producing quality products and due diligence, please review your work at least twice before rendering them to your professor. Remember that resubmissions are not allowed. Thank you for your willingness to improve and to embrace an engineer's mindset. |

Industry values soft skills equally with your technical acumen. The right candidate will need to hone in on these attributes. It is typical in a job interview for an organization to probe an applicant's aptitude on these two gauges. Today's quest has two parts in hopes of strengthening these tandem requirements.

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| **Part I - Soft Skills** |

You are applying for a job, and a member of the interview panel asked you a poignant question:  **"Tell me about some of the most difficult problems you worked on and how you solved them."**  The context here is anything from your PK-12, college, work experience, and life in general. Take a few minutes to think about a response and write down a comprehensive answer. This is a favorite inquiry by technical leaders to evaluate a person's oral and written communication skills. The prompt is very subtle because it dives deep into what kind of a worker you will be. Your answer should be at least two paragraphs or more, using correct grammar, formal, and devoid of spelling errors.

Short essay goes here:

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| One of my most difficult problems I have worked on was creating a website that could store and allow the user to search for chess games in chess notation using asp.net. I was working on this project with Dylan and the combination of the time frame we were given to work with and chess notation being complicated did not make it easy. We were having trouble figuring out the logic of the program and how to actually store the chess notation. So we decided to set a time to get together and work through all of the issues we were having in one of the study room’s in the dorms that had a whiteboard. We started with the data model and how that would actually store the chess notation. After that we slowly worked our way through the program using sudo code and diagrams on the whiteboard. After we were done we both knew what we had to do and how we were going to do it. Actually creating the program at that point wasn’t that difficult because we had already planned what we were going to do and it made the process a lot smoother. |

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| **Part II – Technical Abilities** |

Using the **FoodMart\_Data\_Model**workbook, complete the following steps:

**1)** In the **Store\_Lookup** table, create a new calculated column named days\_since\_opening to calculate the number of days since the store opened (**hint:** use the TODAY() function and subtract the date from the  **first\_opened\_date** column)

* Use the formatting tools in the **Home**tab to format as a whole number, with a thousands separator (**Data Type:** Decimal Number, **Format:** Whole number)
* Paste a screen shot of the Store\_Lookup table showing the newly created days\_since\_opening calculated field.

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| Replace the image below with your completed Store\_Lookup table. |

* Which store opened first?

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| Store 22 was the first store to open. |

* Which opened most recently?

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| Store 4 opened most recently. |

**2)** Update the formula in #1 to calculate the number of days since the last remodel date, rather than the store opening date, and rename the column days\_since\_remodel.

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| Replace the image below with your completed Store\_Lookup table. |

* Which store was remodeled most recently?

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| Store 13 was remodeled most recently. |

**3)** From the Power Pivot tab, create a new measure assigned to the **Returns** table named **Quantity Returned**, which sums the quantity column from the **Returns** data table (format as whole number, with thousands separator)

* Update the PivotTable layout to show **Quantity Returned** by store\_country as **row labels**.

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| Replace the image below with your pivot table’s display. |

What was the total quantity of returned products from stores in Canada?

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| Canada had 541 returned products. |

* Pull product\_brand into the pivot as additional **row labels**.

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| Replace the image below with your pivot table’s display. |

* What was the total quantity of "Best Choice" products returned in stores from Mexico?

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| There were 39 Best Choice products returned. |

* Replace product\_brand with yearly\_income from the **Customer\_Lookup** table.

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| Replace the image below with your pivot table’s output. |

* What do you notice about the **Quantity Returned** values?

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| The values are not different based on the income. |

* Why is that happening?

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| This is happening because there is no relationship between the yearly income and the amount of returns each store has so the values can’t change based on the income. |

Remember to save early, save often, and backup your work.

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| GRADING RUBRIC | | | | |
| Grading Criteria | 3  **Exceeds**  *Excellent*  Epic Wow | 2  **Meets**  *Satisfactory*  O.K. | 1  **Partially Meets**  *Below Expectations*  Not Yet | 0  **Does Not Meet**  *Unacceptable*  Fail |
| **Essay –** The essay is profound and written professionally, adhering to formal industry standards. | Essay is excellent and understandable :40% | Essay is satisfactory :30% | Essay is obfuscated, or hard to follow :20% | Unfortunately, no essay. |
| **Data Table –** The new data tables are transformed correctly. | Data tables are excellent :35% | Data tables are satisfactory :30% | Data tables are deficient :25% | Unfortunately, no Data tables. |
| **Calculations –** The calculated columns and measures are correct, and the answers to specific values are accurate. | Excellent computations :15% | Satisfactory computations :10% | Computations are deficient. :5% | Unfortunately, no computations. |
| **Time Management –** candidate used time wisely during development, presentation, and all aspects of the work submitted in a timely fashion. | Work submitted promptly :10% | Submitted within the allotted time :7% | Submitted late :3% | Unfortunately, too long, too short, or untimely. |