**Final Project Part 1: Building Power BI Desktop Report**

**Project Requirements:**

The final project will consist of 2 parts:

* Part 1: building a Power BI Desktop report
* Part 2: publishing the Power BI report to Power BI.com and creating a dashboard using the Power BI.com service.

The report is for a client project that analyzes the success of the promotion. The client would like to measure the “success” of the promotion using two metrics, the Average Sales Quantity Per Day during the promotion, and the Product Quantity Return Ratio. With these metrics in mind, here are the requirements for both the report, and the dashboard:

**Part 1: Report Requirements**

**10% -** Before starting on the requirements, identify and fix these data model issues:

* **2% -** Hide any columns or tables that shouldn’t be visible
* **3% -** Identify & create missing relationship between the Fact Sales table, and the Lookup table
* **5% -** Create a DAX Measures Table to contain all your DAX Measures

The client would like two pages in the report, one page for the promotion analysis, and one page to see the product detail breakouts, for any given promotion.

**70% -** Promotion Analysis Page Requirements

* NOTE: One requirement from the client is that he’d like the Promotion Name column NOT to show the word Promotion, following all the Promotion Names. Please add an additional column in the Power Query Editor that creates a new Promotion Name column WITHOUT the word Promotion at the end of each name.
* **5% -** Add logo and title
* **15% -** Card Visuals: Please structure/order in the same order as listed below.
  + Sales Quantity
  + Return Quantity
  + Net Quantity (HINT: Difference between sales and return quantities)
  + Sales Amount
  + Return Amount
  + Cost of Goods Amount (HINT: Cost of the products)
  + Net Profits (HINT: Sales minus Returns and Cost of Goods)
* **15% -** Slicers: Provide slicers on each page for the columns listed below
  + Year
  + Is Workday?
  + Continent
  + Region / Country
  + State / Province
  + Product Category
  + Product Sub Category
* **40% -** Visualizations:
  + Create a visualization that shows the breakouts of Net Quantity by Promotion Name & Promotion Year
  + Create a visualization that shows (for each promotion) the relationship between the average sales quantity per day, and the returns as a percentage of quantity sold. (HINT: You’ll need to create two DAX Formulas for this).
  + Create a visualization that shows the breakouts of Average Sales Quantity Per Day by Promotion Name & Year
  + Create a table that contains the following information:
    - Promotion Name
    - Start Year
    - Sales Quantity
    - Return Quantity
    - Net Quantity
    - Average Sales Quantity Per Day
    - Return Quantity Ratio
    - Sales Amount
    - Return Amount
    - Cost of Goods Sold
    - Net Profits

**20% -** Product Details Page Requirements (All Answer Examples In Solution PBI Desktop):

* NOTE: For this page, the client would like the ability to select a promotion from the promotion analysis page, and then see the filtered product information for that promotion, on this page. The client would also like to be able to see which promotion was selected somewhere on this page, after a selection has been made from the Promotion Analysis page. (HINT: Both of these features were covered in the drill through feature video.)
* **10% -** Same Card Visuals as the Promotion Analysis Page
* **5% -** Same Slicers as the Promotion Analysis Page
* **10% -** Create a Matrix Table that contains the following information:
  + Product Hierarchy
  + Sales Quantity
  + Return Quantity
  + Net Quantity
  + Average Quantity Per Day
  + Return Quantity Ratio
  + Sales Amount
  + Return Amount
  + Cost of Goods Sold
  + Net Profits

**What to submit: Power BI report file (.pbix)**