ORDER PROFILING AND DC DESIGN

Item Family Profile

- Create a new tab for the analysis:
    - Right Click on the **Order Data** tab (at bottom)→select **(move to end)** →click **Create a copy** →**OK**
    - Right click on the tab just created →select **Rename** →type *Item Family Profile* →press **Enter**
- Create a Pivot Table for the analysis:
    - Click on a cell in the table → click on the **Insert** tab at the top → click on **PivotTable** icon (left top) → **Create PivotTable** box appears
    - Click on the button for **Existing Worksheet** →click in cell G1 → **OK**
- Format the Pivot Table Report
    - Click on the **Product Type** box in the **Pivot Table Field List** →the **Product Type** field appears in the **Row Labels** area
    - Click on the **Order Number** box in the **Pivot Table Field List** → the **Order Number** field appears in the **Values** area (as *Sum of Order Number*) → click on the pull down for **Sum of Order Number** → the **Value Field Settings** window appears → on the **Summarize Values By** tab, choose to **Summarize value field** by selecting the **Count** option on the list → **OK**
    - In the **Pivot Table Report**, right click on a cell under the **Count of Order Number** column → in the window that appears, select **Show Values As** → choose **% of Column Total**
    - Again, in the **Pivot Table Report**, right click on a cell under the **Count of Order Number** column → in the window that appears, select **Sort** → choose **Smallest to Largest**
- Create and format the Product Profile Chart:
    - Click on a cell in the **Pivot Table Report**, then click on the **PivotChart** icon on the Options tab under **PivotTable Tools** (on the top of the screen) → the **Insert Chart** window appears →select the first **Column** chart icon that appears → **OK**
    - Click on the title text box in the chart window → change the *Total* text to *Product Profile*.
    - Click on the **Total** text box on the legend area (right) in the chart window → press **Delete**
- **1.)** Answer the following questions:
    - **What are the implications for the layout of a DC based on this data?**
    - **What product would most of the picking space be devoted to?**
    - **How would you begin to layout the DC picking floor?**

Receiving Profile

Row Labels:	Product Type
	Pieces per Carton
Values:	Count of Part Number

- In the **Pivot Table Report**, right click on a cell under the **Count of Qty Shipped** column → in the window that appears, select **Sort** → choose **Largest to Smallest**
- **2.)** Answer the following questions:
    - **What are the case quantities that these products are received in?**
    - ***(After looking at the Order Qty Profile)* How would you change how these are received?**

ORDER PROFILING AND DC DESIGN

Order Quantity Profile

> **Report Filter:**   Product Type
> **Row Labels:**   Qty Shipped
> **Values:**   Count of Part Number

- o   In the **Pivot Table Report**, right click on a cell under the **Count of Qty Shipped** column → in the window that appears, select **Show Values As** → choose **% of Column Total**
- o   In the **Pivot Table Report**, right click on a cell under the **Count of Qty Shipped** column → in the window that appears, select **Sort** → choose **Largest to Smallest**
- o   Click on a cell in the **Pivot Table Report**, then click on the **PivotChart** icon on the Options tab under **PivotTable Tools** (on the top of the screen) → the **Insert Chart** window appears → select the first **Column** chart icon that appears → **OK**
- o   Click on the title text box in the chart window → change the ***Total*** text to ***Order Quantity Profile***.
- o   Click on the **Total** text box on the legend area (right) in the chart window → press **Delete**

3.) Answer the following questions:
- o   **What shipping case quantities would you use to fulfill orders for each product type?**

Demand Profile

> **Row Labels:**   Part Number
> **Values:**   Sum of Qty Shipped

- o   In the **Pivot Table Report**, right click on a cell under the **Sum of Qty Shipped** column → in the window that appears, select **Sort** → choose **Largest to Smallest**

4.) Answer the following questions:
- o   **What part number(s) is a candidate for a forward pick area?**

Slotting Profile

> **Report Filter:**   Product Type
> **Row Labels:**   Part Number
> **Values:**   Count of Qty Shipped

- o   In the **Pivot Table Report**, right click on a cell under the **Count of Qty Shipped** column → in the window that appears, select **Show Values As** → choose **% of Column Total**
- o   In the **Pivot Table Report**, right click on a cell under the **Count of Qty Shipped** column → in the window that appears, select **Sort** → choose **Largest to Smallest**

5.) Answer the following questions:
- o   **What part numbers would be best located at the front (shipping) end of a pick aisle?**
- o   **Create a sketch that shows how would you begin to layout the DC picking floor.**
  - ▪   Show a forward pick area (and part no.), aisles (product types and front part no.), and receiving/storage (and product types)