# Lab 2 Model Data in Power BI

**Objectives**

**Time: 20-30 Minutes**

1. Organizing tables in the data model
2. Creating relational connections between Fact and Dimension tables
3. Validate filter propagation.
4. Create a doughnut chart showing the count segmentation of resellers based on product category.

**Lab steps**

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| Organizing tables in the data model   * Launch Lab 2 Start Up - Data Modeling Power BI File * Navigate to the Model view. |  |
| * Organize the data tables separating the dimension tables placing them on the upper part of the model canvas and the Fact tables below. | **Dimension Tables**  **Fact Tables** |
| 2) Creating relational connections between Fact and Dimension tables   * Make table connections by connecting the corresponding Primary key from the **Dimension** tables to the **Fact** tables. * You can use the drag and drop method or from the **Home** tab select Manage relationships. | **Drag & Drop Option** |
|  | **Manage Relationship Option**  **Many Side**  **1:\* One Side**  **5**  **4**  **3**  **2**  **1** |
| * Create the following connections. |  |
| 3) Validate filter propagation   * Navigate to the **Report View** * From the Visualizations pane select the slicer visual and place the category field from the category table into the slicer field * Place the Subcategory field from the Subcategory table into the slicer field. * Add a Table visual onto the canvas and Place the Region, Salesperson and Quantity field into the table visual * Test the slicers to ensure that the filter propagation is working correctly starting with the category slicer. | **3**  **2**  **1** |
| 4) Create a doughnut chart showing the count segmentation of resellers based on product category   * Place a doughnut chart onto the canvas with the Category field from the Category Table in the Legend and the Reseller field from the reseller table in the values (Reseller should be aggregated to count) * To get the correct values you will need to change the cross filter in the model view | Clip Art XClip Art XClip Art XClip Art X |
| * Click on the connection string between the **Reseller** table and the **Sales by Country Files** * In the model view from the properties panel change the cross-filter direction from single to both and then apply changes |  |
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