# Instructions

## Load Data – Load the 3 CSV Files

1. Open a new Power BI file.
2. Click the Get Data dropdown and select Text/CSV.
3. Select the colors.csv file.
4. Click load.
5. Repeat these steps to load inventories.csv and inventory\_parts.csv.

## Transformations – Create a Calculated Column

1. On the Home tab, click transform data.
2. On the colors table, there is a field is\_trans that indicates the lego brick is translucent. This field is either “t” if it is translucent or “f” if it is not. Power BI reads this as a character field.
3. For this demo, we want to create a field that is 1 if it’s translucent and null if it isn’t.
4. Click the Add Column tab, select Conditional Column.
5. Give the column the name ‘Translucent’.
6. In the If statement line, change column name to is\_trans, value to t and output to 1.
7. In the else portion, type null.

Graphical user interface, text, application

Description automatically generated

Bonus:

1. Create a new column based on the rgb column on the colors table that could be used to color charts.
2. Highlight the rgb column, right click and select duplicate.
3. Click on the transform tab, while the new duplicate column is selected.
4. Click the Format drop-down and select Prefix.
5. Add a ‘#’

Graphical user interface, text, application

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1. Close and Apply in Power Query Editor.

## Data Model

1. On the Home tab, click the model view on the left side of the screen.

Graphical user interface

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1. Change the cross filter to both on each of the relationships. Right-click the arrow and select properties.

Graphical user interface, table

Description automatically generated

1. This will allow separate objects to filter in either direction on the report pane.