# Power Bi - Challenges:

# Q1 [Easy] - Find the right relationship

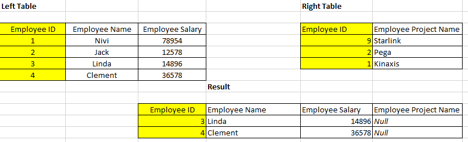
**Tags**: Relationship

#### A retailer can sell to multiple customers and customers can buy from multiple stores. So the relationship between the “Retailer” and the “Customers” table will be ?

Ans:One to Many

## Q2 [Medium] - Which JOIN is most suitable?

**Tags**: JOIN

For the tables visualized below, which kind of join will lead to the resultant table?  
  


Ans: Right join

## Q3 [Hard] - Based on Instruction #1 to #5

**Tags**: Data Transformation, Data Modeling, Slicer, Filter, Data Visualization, DAX

Blu wants to analyze the transactions that have gross that are not negative. Further analysis is needed on a Deputy Manager level.

For a Deputy Managers named **Andrew Ma** and **Brad Sutton,** what is the total sales in Millions?

Ans: 14.30M

## Q4 [Medium] - Based on Instruction #1 to #5

**Tags**: Data Transformation, Data Modeling, Slicer, Filter, Data Visualization, DAX

Blu management is interested to know the highest total sales contribution in the top territory made by DMs Andrew Ma and Brad Sutton jointly. What is the right answer?

Ans: 11.74M

Q5 [Medium] - Based on Instruction #6 to #7

**Tags**: Data Visualization, DAX, Data Formatting

To analyze the effect of probable loss of gross margins due to un-optimized inventory levels, Blue wants to know if there’s an immense need to maintain higher levels of Inventory. Maintaining higher levels of inventory can pose a serious risk to business due to piling up of unused stocks.

In the process, Management wants to know that out of total sales availed, what percentage sale is due to the highest territory sum of sales. Also to make the sales more robust, Management wants to target the weak zone for this territory. For which territory the sales are the highest? Also Find the percentage contribution in sales due to this territory with respect to total sales. Analyze the lowest sales year for this territory along with the weakest Non-Zero Quarter in it.

Ans:

* The Total Sales is 91.83M
* The Highest Sales by PA Territory is 27.27M
* The Percentage Contribution is 33.06%
* The Highest Sales Of This Territory is 2014 And Strongest Non-Zero Quarter In It’s 2nd Quarter

Q6 [Easy] - After making the final dashboard

For the overall period during which stores have been opened, find out at which time (year, quarter, month) lowest rent was generated and how much? (Note - You’ve consider only the quarter and months which are in the year having the lowest rent and having at least value greater than 0)

Ans:

* Year : 2011
* Quarter : 4
* Month : October
* Amount : 25237

## Q7 [Easy] - After making the final dashboard

The global business head is always on the lookout to expand the business to various new industries in existing regions where penetration is low.

For territories WV, NC, OH, TN and PA, what is the total number of units sold and out of it, much is the units sold for the Juniors category ?

Ans: Total units sold by the above mentioned areas is 327.70K,

And Total units sold for junior segment 29.18K