# Power BI Skills Test

Login: Dessales.Birku@M365x689444.onmicrosoft.com

Password: Mux17083

## Section 1 – Data Model

Please use the Power BI Test Excel file with Power BI Desktop to perform the following tasks:

1. Import the FactTable tab from Excel which should contain a Count, Date, and User column.
   1. Call the table FactTable
2. Create a custom column on FactTable called Is Odd.
   1. If the current row’s Count value is odd, return true. Otherwise return false.
3. Create a table called DateDim that shows all days between the earliest and latest Date column.
   1. Blank values should be replaced with the date 12/1/2018.
   2. Create a column called “Month Year” that displays the date in the “MMM YY” format.
4. Create a relationship between the FactTable and the DateDim table based on each table’s Date column.

## Section 2 – DAX

Please use the data model in Section 1 to perform the following tasks:

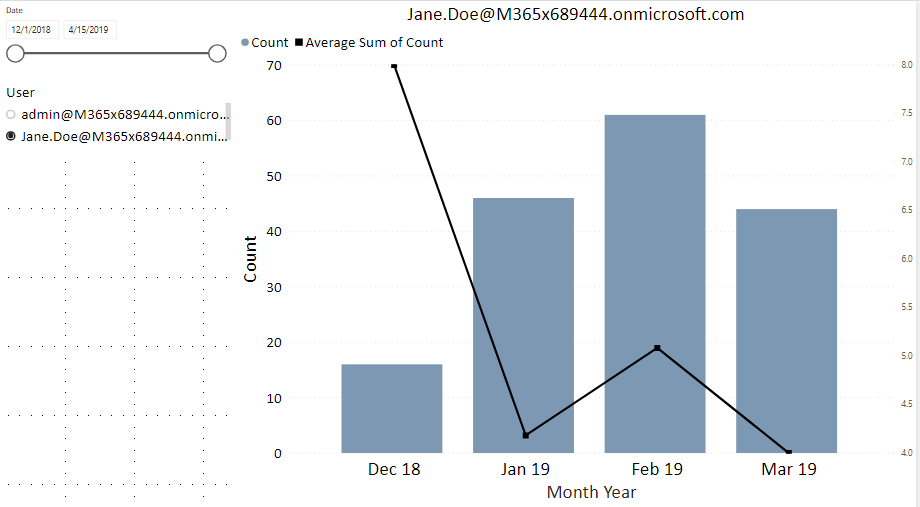
1. Create a measure called “Static Sum of Count” on the FactTable that calculates the Sum of the Count column REGARDLESS of what filters are applied. In other words, if the sum of all the count values is 100, it should remain 100 regardless of any filters applied.
2. Create a measure called “Average Sum of Count” on the FactTable that calculates the Average of the Count column.
3. Create a measure called “Sum of Odd Count” on the FactTable that calculates the Sum of the Count where Is Odd is true.

## Section 3 – Visuals

Building off of Section 1 and 2, please create the following report in Power BI Desktop:

1. Create a bar chart that shows the sum of the Count column in the FactTable by the “Month Year” column in the DateDim table.
   1. The bar chart values should be displayed in chronological order.
2. Add a slicer to the report that lets a user filter the bar chart by the date field in the DateDim table.
3. Add a slicer to the report that lets a user filter the bar chart by the User field in the FactTable.
   1. Only allow one value to be chosen at a time.
4. Update the bar chart’s title to show the filter value selected in step 3.
5. Show the “Average Sum of Count” as a line value in the chart (now a combo chart) with squares as markers.

Here is an example of what the report could look like:



## Extra Credit

Use Row Level Security to create a Dynamic Role that filters the report based on the User Principal Name.