Assignment – 3

- ***Use the Employee Details dataset and perform the following activities: -***

  - ***Split the column CITY and separate the code associate with each city like - Allahabad[AL2] should be only Allahabad and [A2] will be separate.***

    Solution 1:

    1. *We will open the Power Query Editor; can be done in two ways. I used the transform data while getting the data.*
    2. *After selecting the city column, we can use 2 ways (I've implemented both ways):*
       i. *Extract text before delimiter and extract text between delimiter (which has been removed later but, still can be seen in the steps in Power Query Editor).*
       ii. *Split column by position.*

    *And get the results in the new columns respectively (**City Name, City Code**).*

City name	City code
Agra	[AG1]
Ahmedabad	[AH5]
Allahabad	[AL2]
Amritsar	[AM3]
Aurangabad	[AU8]
Bangalore	[BA1]
Bareilly	[BA2]
Bhopal	[BH9]
Chandigarh	[CH9]
Chennai	[CH7]
Coimbatore	[CO7]
Delhi	[DE3]
Dhanbad	[DH5]
Faridabad	[FA4]
Ghaziabad	[GH4]
Guwahati	[GU2]
Gwalior	[GW4]
Howrah	[HO7]
Hubballi-Dharwad	[HU1]
Hyderabad	[HY8]

  - ***Extract the first name from EMPLOYEE NAME column and transform the column.***

    Solution 2:

    1. *We will open the Power Query Editor can be done in two ways. I used the transform data while getting the data.*
    2. *After selecting the Employee Name column, we will: Extract text before delimiter (for first name) and extract text after delimiter (for surname).*

       *And get the results in the new columns respectively (**Employee First Name and Employee Surname**).*

Employee First Name	Employee Surname
Bonnie	Potter
Bonnie	Potter
Bonnie	Potter
Bonnie	Potter
Bonnie	Potter
Bonnie	Potter
Ronnie	Proctor
Ronnie	Proctor
Dwight	Hwang
Dwight	Hwang
Dwight	Hwang
Dwight	Hwang
Leon	Gill
Melanie	Garner
Lorraine	Houston
Meredith	Norris Thomas
Marcus	Dunlap
Kara	Pace
Gwendolyn	F Tyson
Gwendolyn	F Tyson

a. Using the JOINING DATE column extract the Year and no. of days for that month.

Solution 2a:

- *Created a date table, taking April or 4 as the month of the fiscal year.*
  Code: *DateTable = CALENDARAUTO(4)*

- *Using DAX, extracted the month number from the date using,*
  Code: *MonthsNum = MONTH(DateTable[Date])*

- *Using DAX, changed the number format of month to text,*
  Code*: Month = FORMAT(DateTable[Date], "MMMM")*

- *Using DAX, extracted the year for the Dates column:*
  Code: *Year = YEAR(DateTable[Date])*

- *No. of days for the months:*
  Code:

```
MonthDays =
        VAR LastDayThisMonth =

        CALCULATE (
        MAX ( 'DateTable'[Date]),
                ALLEXCEPT ( 'DateTable', 'DateTable'[Month], 'DateTable'[MonthsNum],
                'DateTable'[Year]))
        RETURN
        ( DAY ( LastDayThisMonth ) )
```

Date	MonthsNum	Month	Year	MonthDays
01-05-2013	5	May	2013	31
02-05-2013	5	May	2013	31
03-05-2013	5	May	2013	31
04-05-2013	5	May	2013	31
05-05-2013	5	May	2013	31
06-05-2013	5	May	2013	31
07-05-2013	5	May	2013	31
08-05-2013	5	May	2013	31
09-05-2013	5	May	2013	31
10-05-2013	5	May	2013	31
11-05-2013	5	May	2013	31
12-05-2013	5	May	2013	31
13-05-2013	5	May	2013	31
14-05-2013	5	May	2013	31
15-05-2013	5	May	2013	31
16-05-2013	5	May	2013	31
17-05-2013	5	May	2013	31
18-05-2013	5	May	2013	31
19-05-2013	5	May	2013	31
20-05-2013	5	May	2013	31

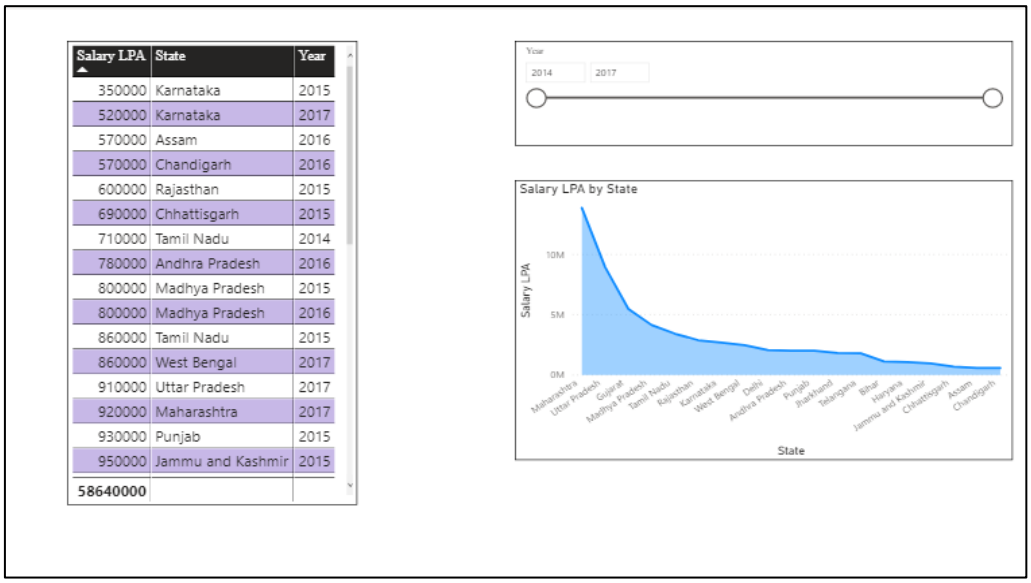
b. Create a visual of your choice and show the how much salary has been paid to each state and which state has lowest payout.

Solution 2b:

1. *An **Area chart** is plotted to show the salary against each state and displaying the lowest payout of the state.*

2. *A **slicer** is used for distributing the plots and data as per the year.*

3. *A **text table** is also created to display a clear variation of salary as per state.*



*Here, we can infer by the visuals plotted, that **Karnataka** **is the state with the lowest payout and **Maharashtra** **is the state with the highest payout amongst all states, as per all over years considered together.***