Ex08

Introduction: As one of the BI tools, Power BI provides few Intelligence features

Objective: This exercise is to demonstrate and explain the following Power BI features

- Analytics
- Key Influencer
- Q&A

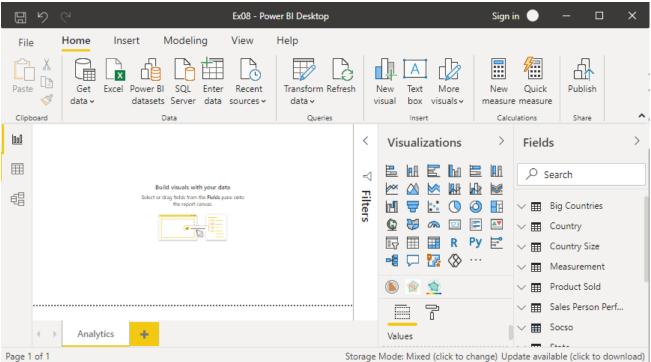
Pre-requisites:

- 1) Understand how to perform data loading from MS Excel
- 2) Know how to transformation data
- 3) Be able to construct Data Model
- 4) Familiar with Power BI Reporting

Steps:

Part-1: Prepare Data Workbook and create Data Model

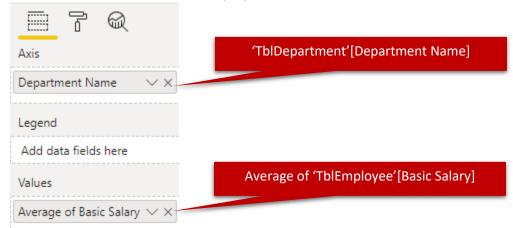
- 1. This exercise will use the same data model created from Ex07. Just make a copy of Ex07.xlsx, the rename it as Ex08.xlsx.
- 2. Copy Ex07.pbix to Ex08.pbix.
- 3. Open Ex08.pbix, reassign the data source to Ex08.xlsx.
- 4. Empty "Bookmark" page and delete other report pages
- 5. Rename the empty "Bookmark" page as "Analytics".
- 6. Delete all bookmarks.
- 7. Delete all roles.
- 8. Following is the state report:



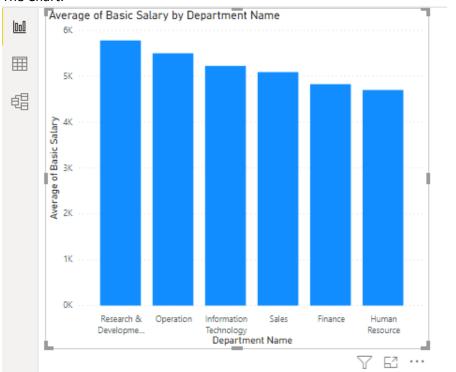
Analytics

Steps:

1. Add a Clustered Column Chart with properties:



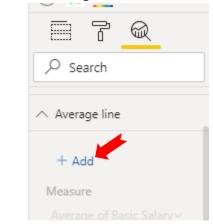
2. The Chart:



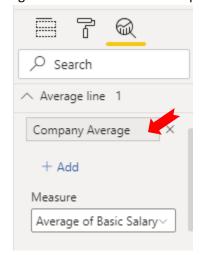
3. While selecting the new chart, select "Analytics":



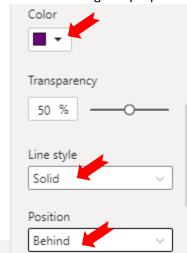
4. Add new "Average line":



5. Change name to with name "Company Average":



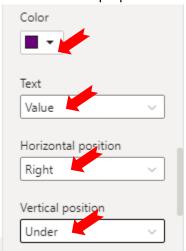
6. Set the following line properties:



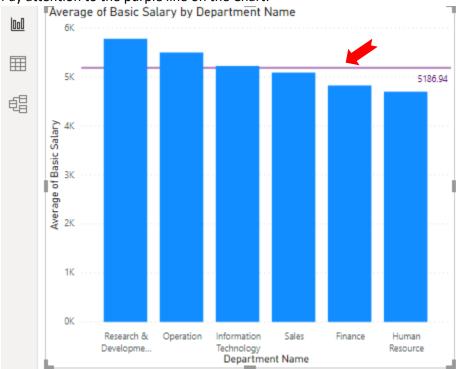
7. Turn on the Data Label:



8. Set the Data Label properties:



9. Pay attention to the purple line on the Chart:



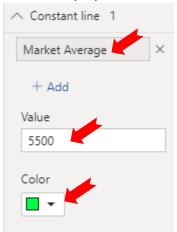
10. Under Analytics, collapse the "Average line 1":



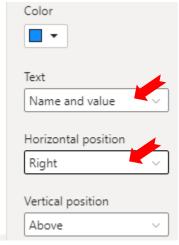
11. Expand the "Constant line" and select "Add":



12. Set the line properties:



13. Turn on the Data Label and set properties:



14. Pay attention to the green line on the chart:



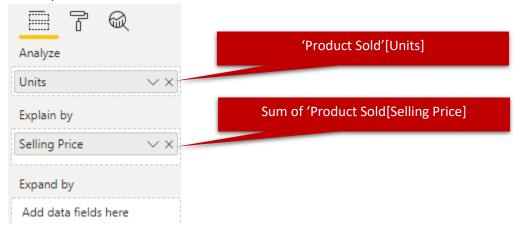
Key Influencer

Steps:

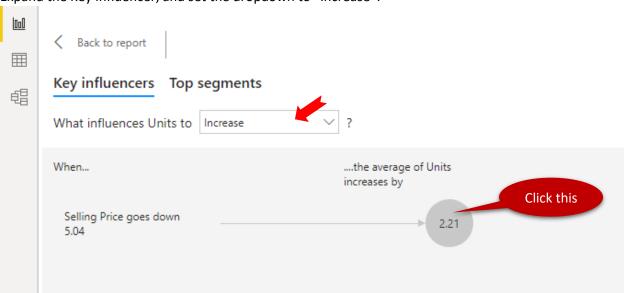
- 1. Create a new Report Page with name "Key Influencer".
- 2. Add a new "Key Influencer" to the page:



3. Set Properties:



4. Expand the Key Influencer, and set the dropdown to "Increase":



5. Minimize the Key Influencer.

Q & A

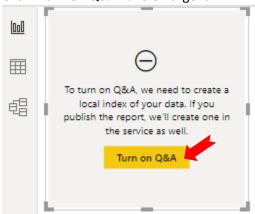
Steps:

Notes: NLP (Natural language Processing) is one of the Key area of Artificial Intelligence.

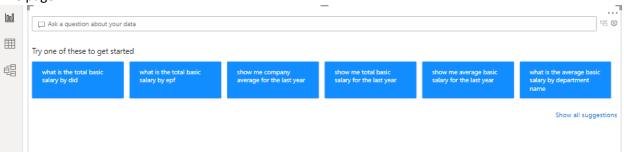
- 1. Create a new page with name "Q & A".
- 2. Add a new Q & A element:



3. Click "Turn on Q&A" and enlarge it:



4. The page:



5. Try the following Questions:

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1	What is the average age of IT?
2	What is the average age of IT male?
3	Show the average salary by Departments
4	Show the average salary by gender in Pie
5	Who has the highest basic salary?
6	What is the name of the youngest employee?
7	Show employee names and age sorted by age in table
8	Show employee name and department name in table
9	Female employee name is having highest basic salary
10	Total basic salary for each race in clustered column chart