

Ex04

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

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

- **Analytics**
- **Key Influencer**
- **Q & A**

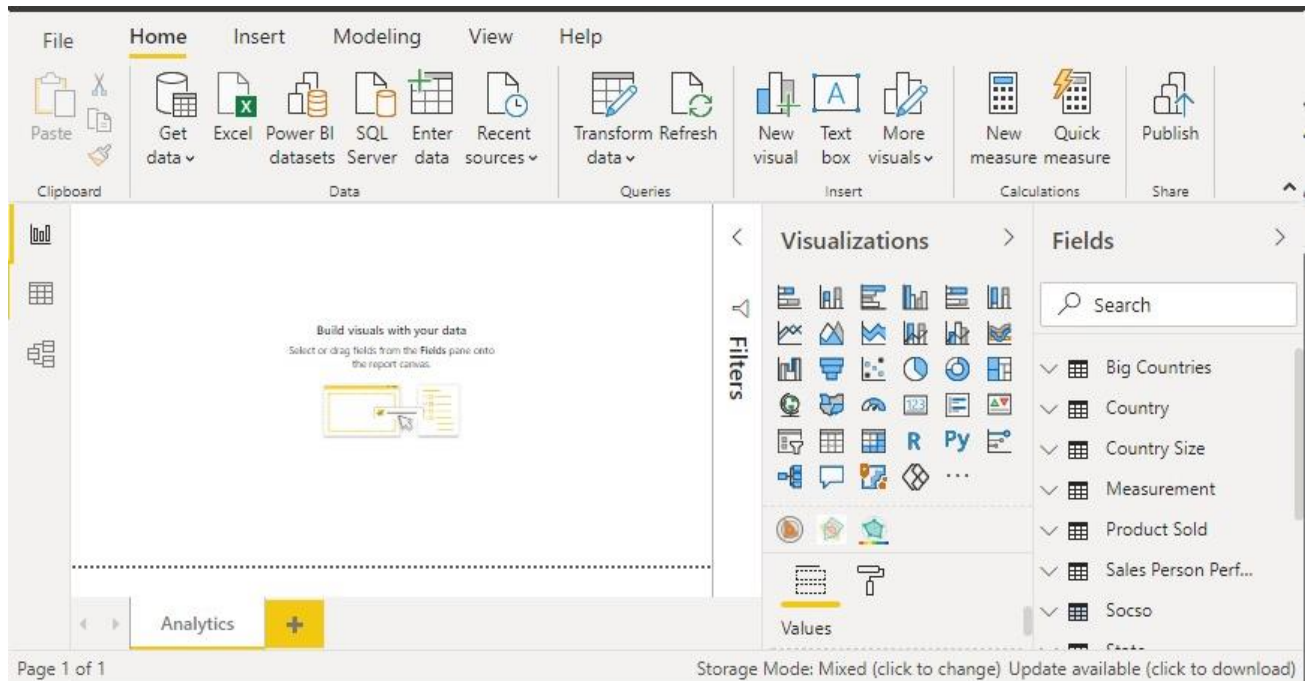
Pre-requisites:

- 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 previous exercise (Ex03).
2. Make a copy of Ex03.pbix and rename it as Ex04.pbix.
3. Open Ex04.pbix.
4. Create a new page with page name "Analytics" and delete all other existing pages (created from for Ex03).
5. The following is how your report looks like:

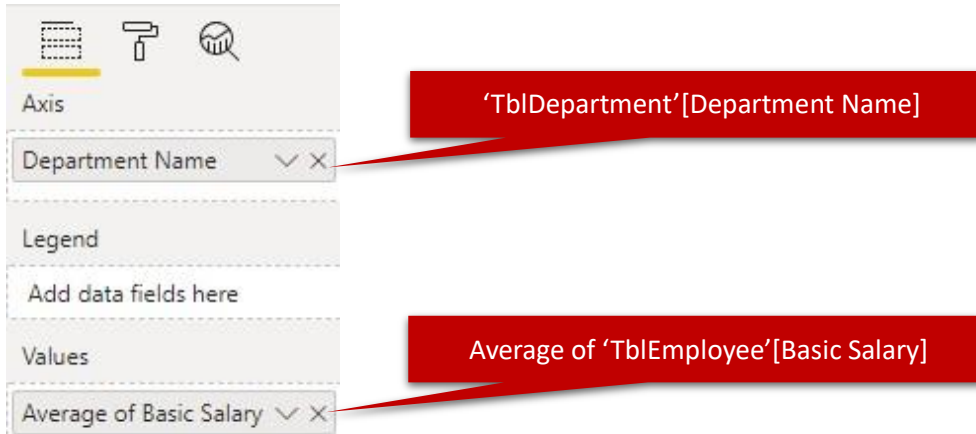


Part-2: Prepare Report Pages

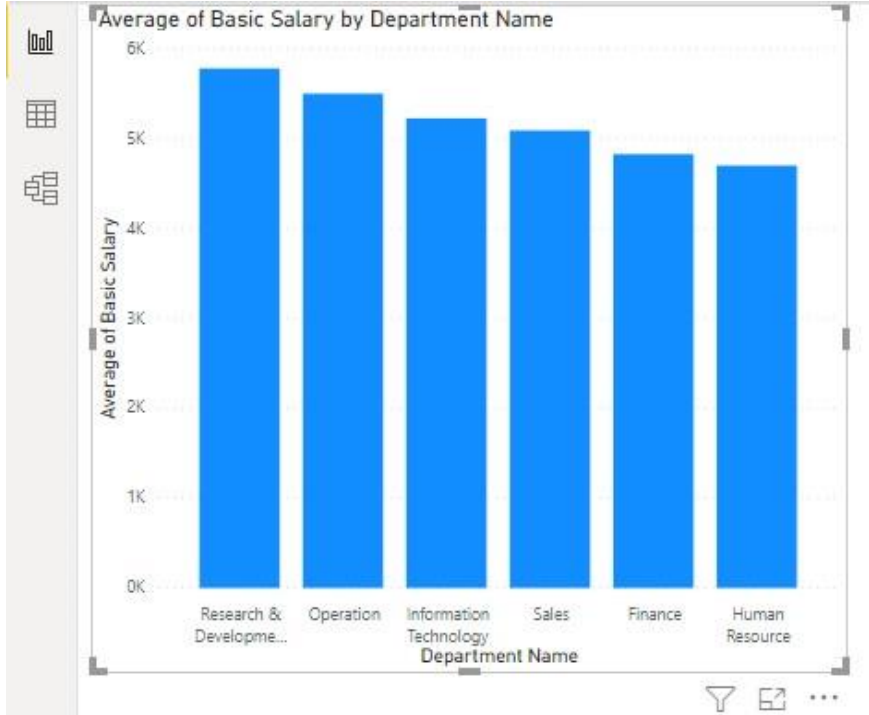
Analytics

Steps:

1. Add a Clustered Column Chart with properties:



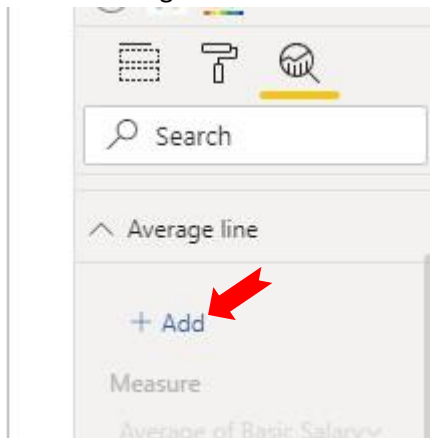
2. The Chart:



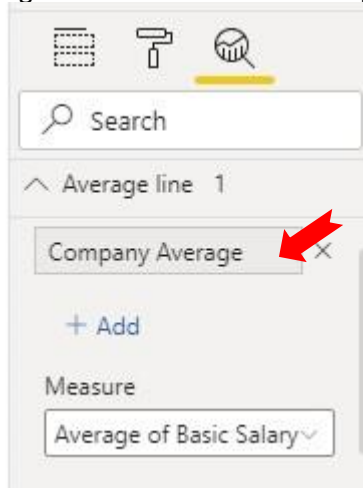
3. While selecting the new chart, select "Analytics":



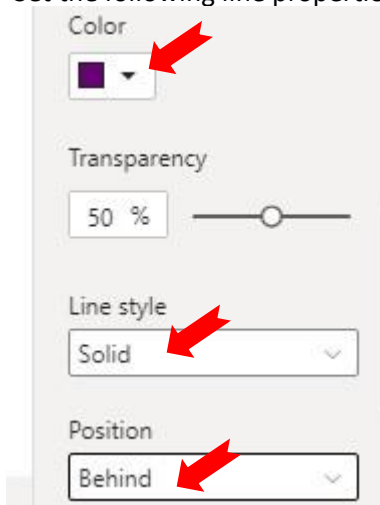
4. Add new "Average line":



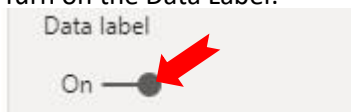
5. Change name to with name "Company Average":



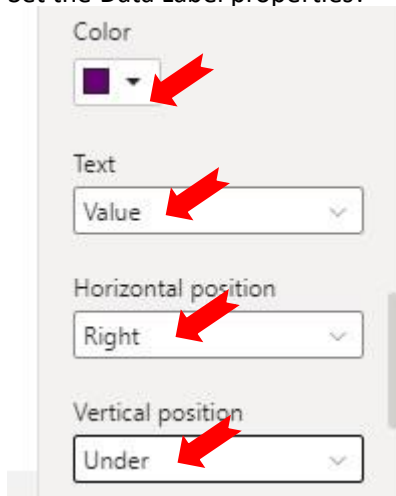
6. Set the following line properties:



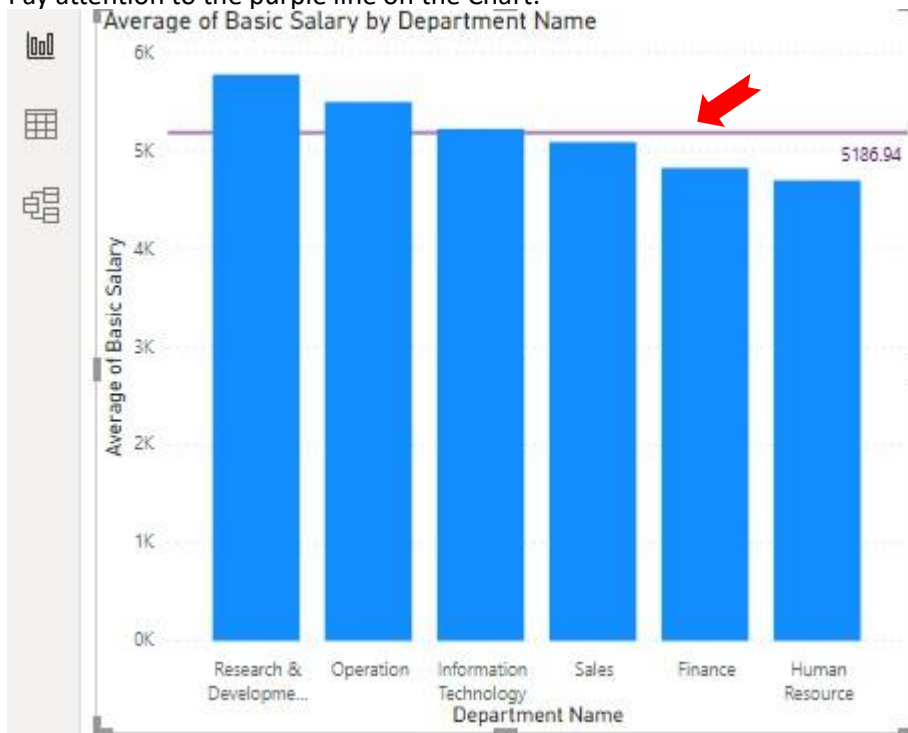
7. Turn on the Data Label:



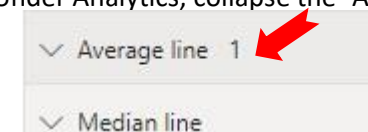
8. Set the Data Label properties:



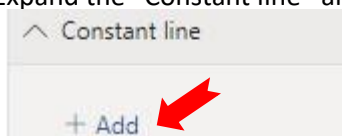
9. Pay attention to the purple line on the Chart:



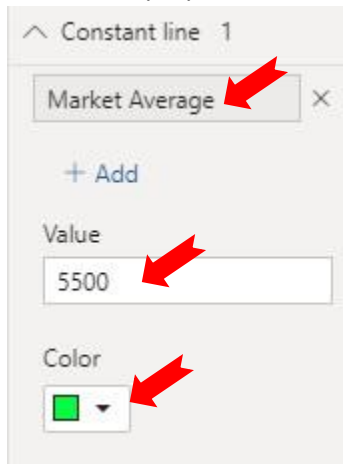
10. Under Analytics, collapse the "Average line 1" :



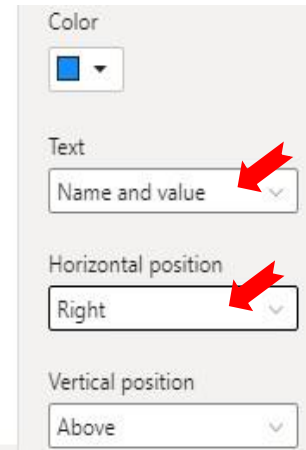
11. Expand the "Constant line" and select "Add":



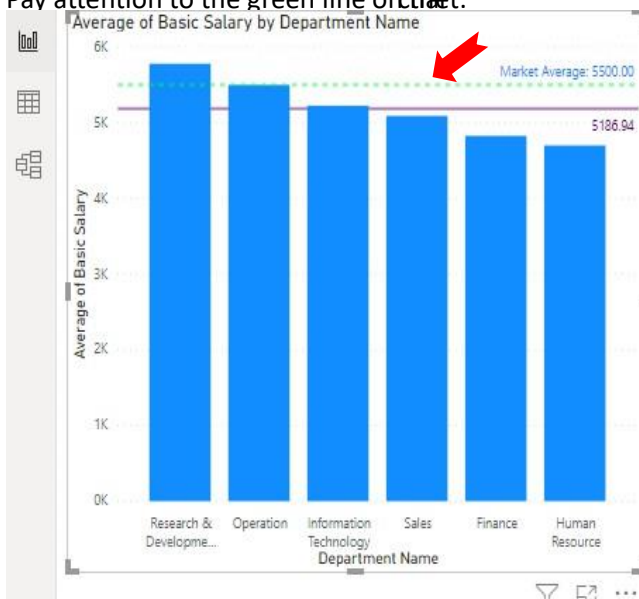
12. Set the line properties:



13. Turn on the Data Label and set properties:



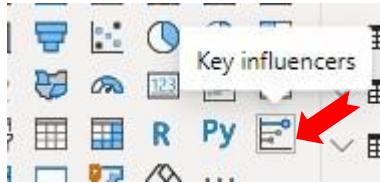
14. Pay attention to the green line on the chart:



Key Influencer

Steps:

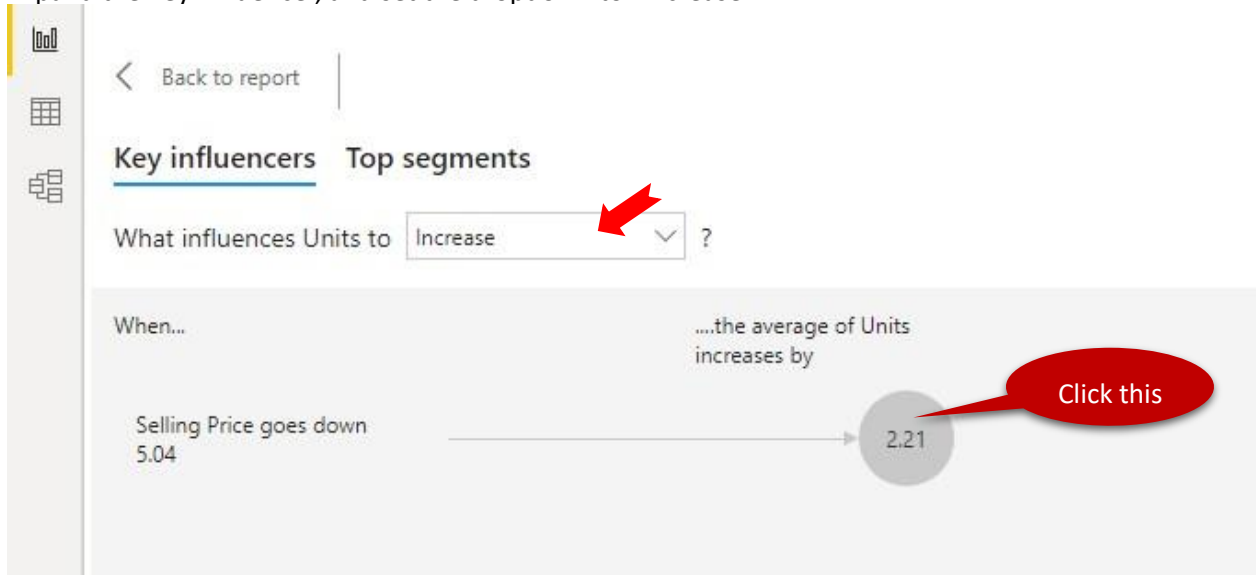
1. Create a new Report Page with name "Key Influencer".
2. Add a new "Key Influencer" to the page:



3. Set Properties:



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



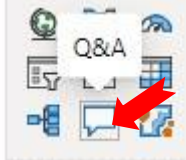
5. Minimize the Key Influencer.

Q & A

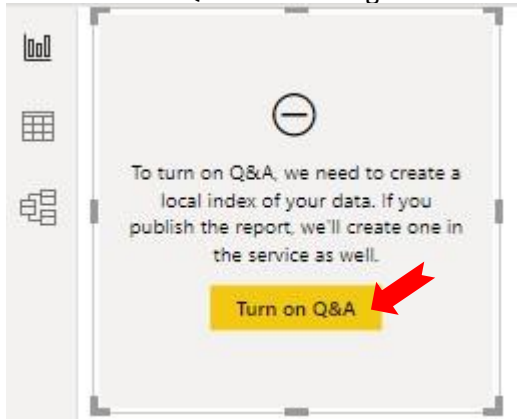
Steps:

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

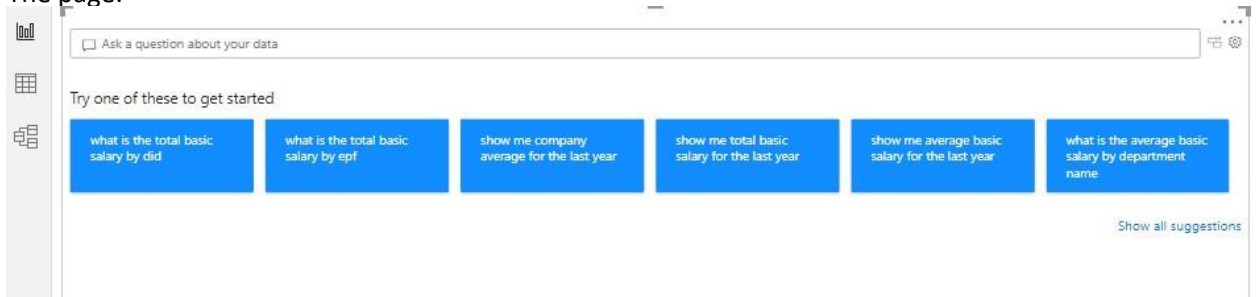
1. Create a new page with name "Q & A".
2. Add a new Q & A element:



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



4. The page:



5. Try the following Questions:

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
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