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 (ExO3).
- 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:

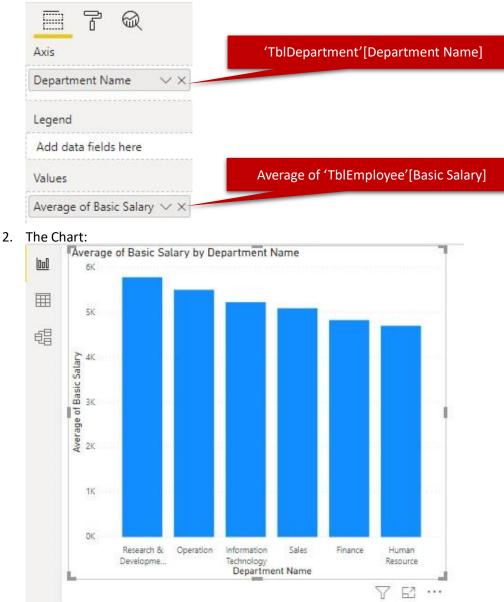
File	Home Insert Modeling View Help Get Excel Power BI SQL Enter Recent data v datasets Server data sources v Data Queries		New Text More visual box visuals v Insert		Quick e measure	Publish Share
	Build visuals with your data Select or sing Helds from the Fields pane onto the report cause Interport Cause Analytics	マ Filters		>	 ✓ Ⅲ Ca ✓ Ⅲ Ca ✓ Ⅲ M ✓ Ⅲ Pr ✓ Ⅲ Sa ✓ Ⅲ Sa 	> g Countries ountry ountry Size leasurement roduct Sold ales Person Perf occo
Page 1 of 1	Sto	orage	e Mode: Mixed (click to ch	ange) Up		

Part-2: Prepare Report Pages

Analytics

Steps:

1. Add a Clustered Column Chart with properties:



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



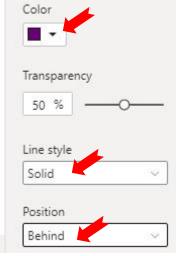
4. Add new "Average line":

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,∕⊂ se	arch		
∧ Avera	ige line		
+ A4	dd		
Measu	re		

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

6	R
€ Search	
\wedge Average line	1
Company Ave	erage
+ Add	
Measure	
Average of B	asic Salary~

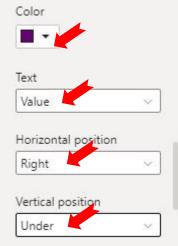
6. Set the following line properties:

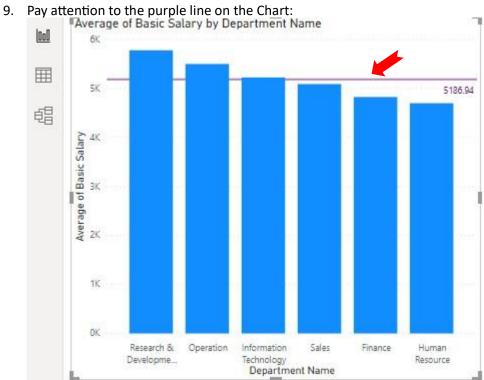


7. Turn on the Data Label:



8. Set the Data Label properties:

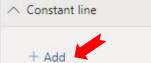




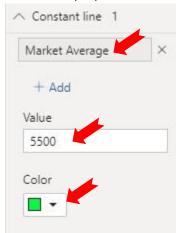
10. Under Analytics, collapse the "Average line 1" :



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

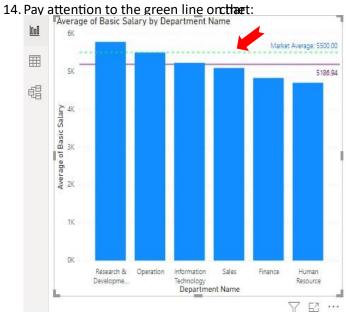


12. Set the line properties:



13. Turn on the Data Label and set properties:

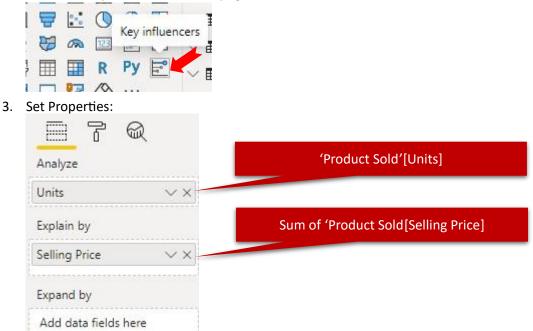




Key Influencer

Steps:

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



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

K Back to report		
Key influencers Top segments		
What influences Units to Increase	~ ?	
When	the average of Units increases by	
Selling Price goes down 5.04	► 2.21 Click this	

5. Minimize the Key Influencer.

Q & A

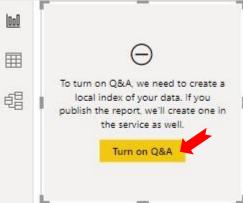
Steps:

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

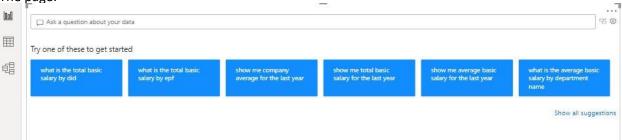
- 1. Create a new page with name "Q & A".
- 2. Add a new Q & A element:



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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