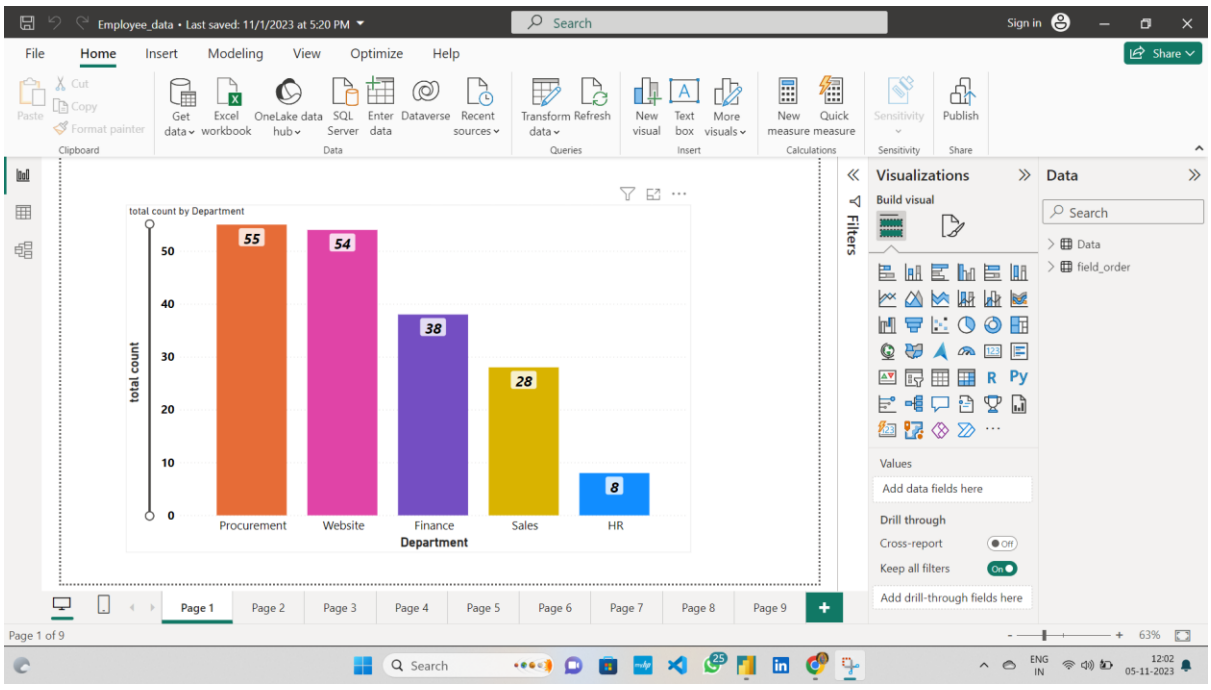
Documentation of analysis of employees data Power BI reports

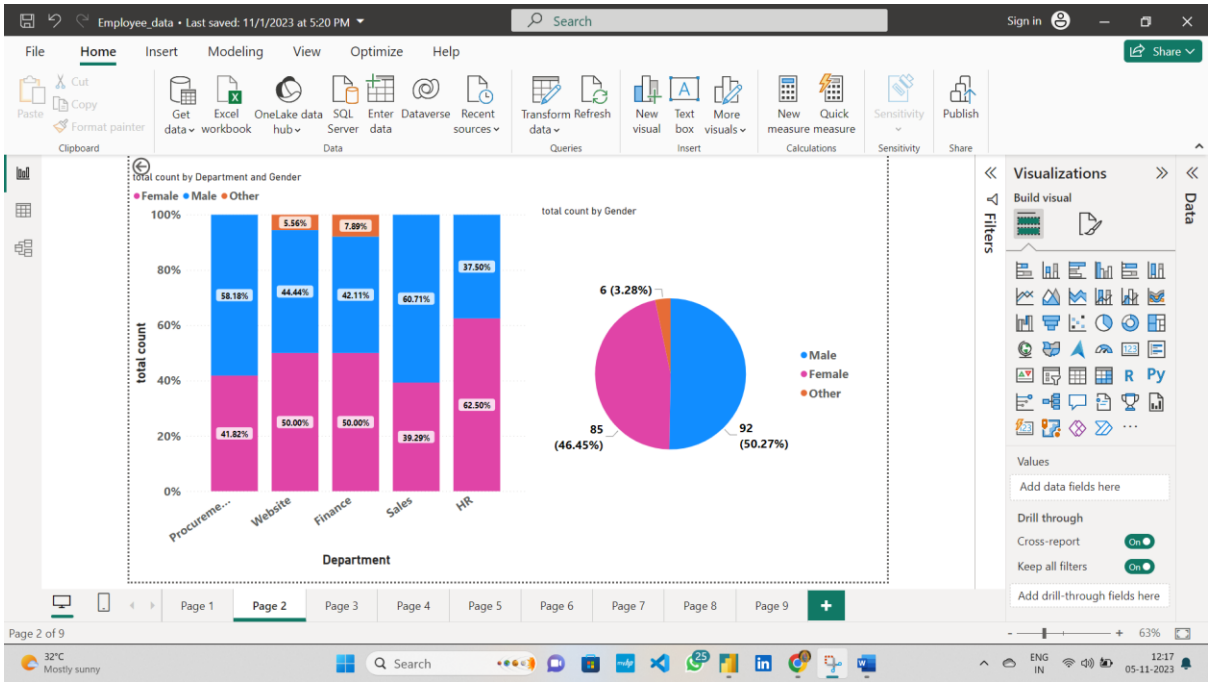
Introduction:

This analysis is based on a test data, assuming it as employees data of a company which have offices in India and New Zealand. In these reports, I analysed and visualized data based on some factors namely total count, Salary, data-joined, department, gender, rating, country etc. For these things, I have created some measures also such as total count, average salary, minimum salary etc. I preferred measures over calculated columns because these will not add any additional data to tables and decreases storage utility.

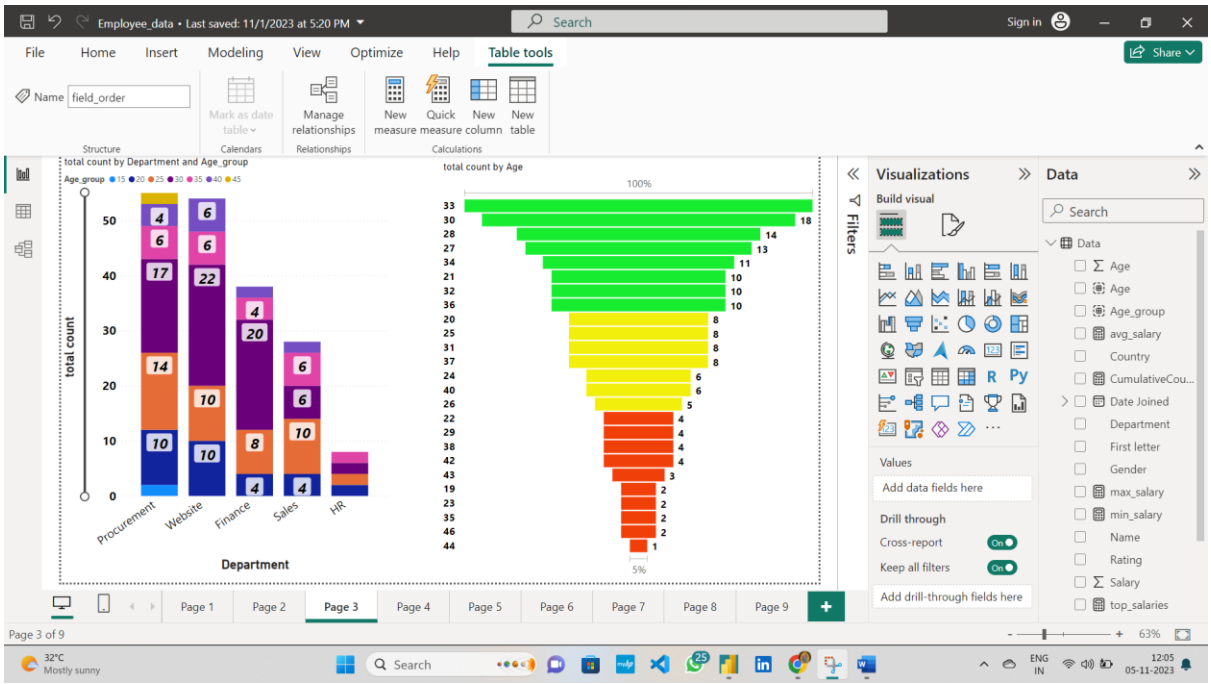
Page1- Total number of employees are divided based on department.



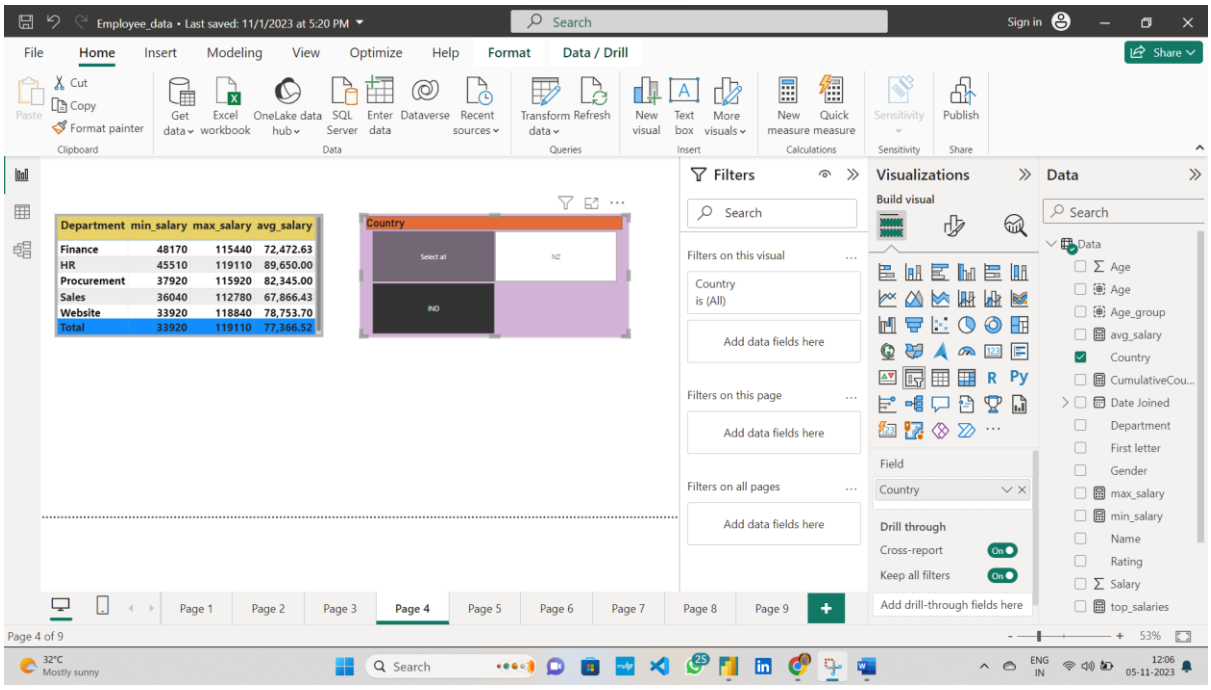
Page2-toatal number of employees shown based on department and gender.



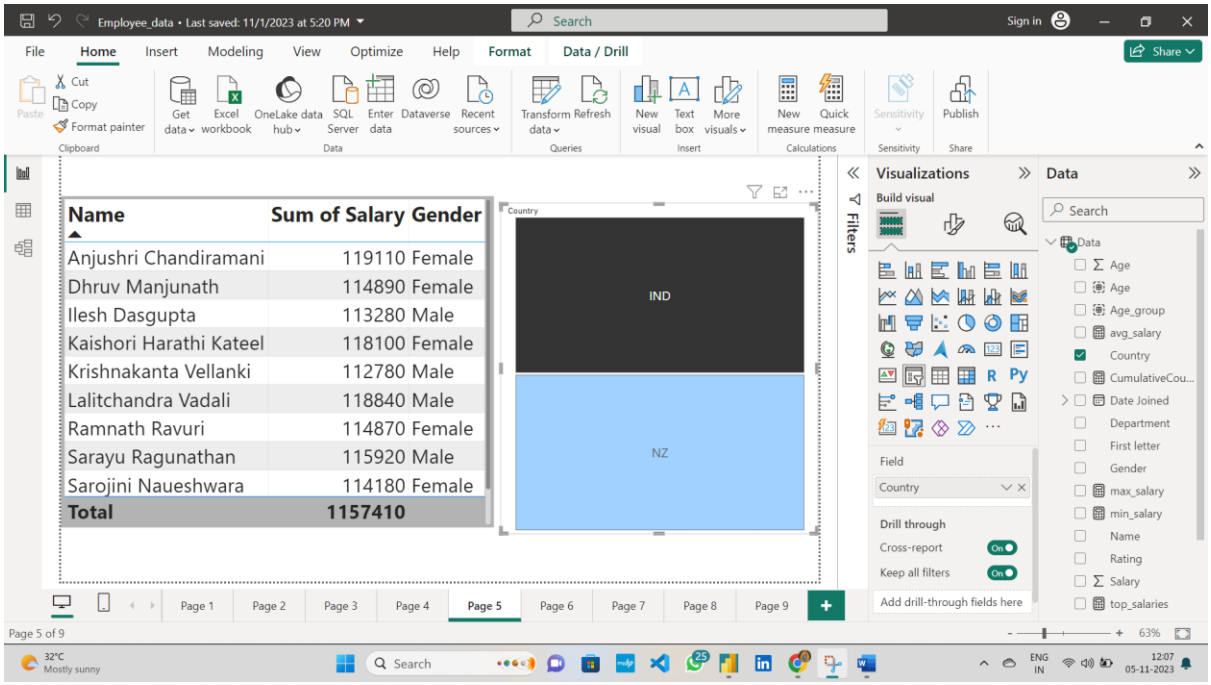
Page3-total number of employees based on department and age.



Page4- maximum, average, minimum salaries of each department and a slicer is added to filter results base on country.

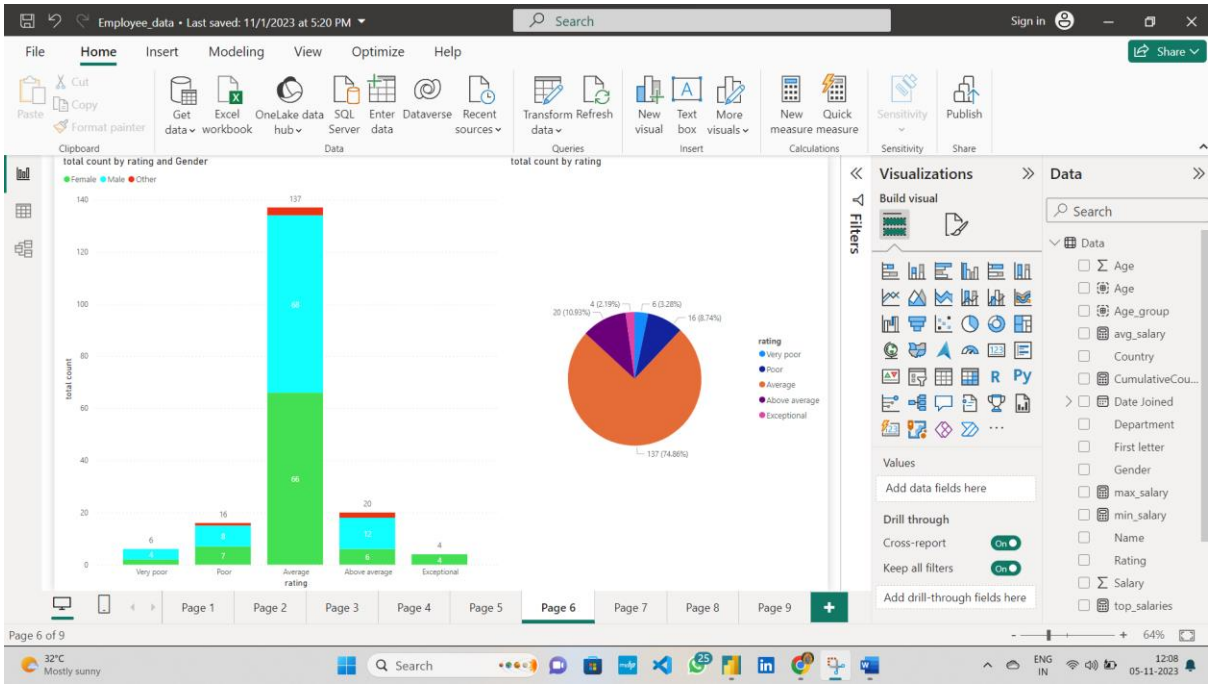


Page5- Top 10 salaries earning persons and details and can be filtered based on country.

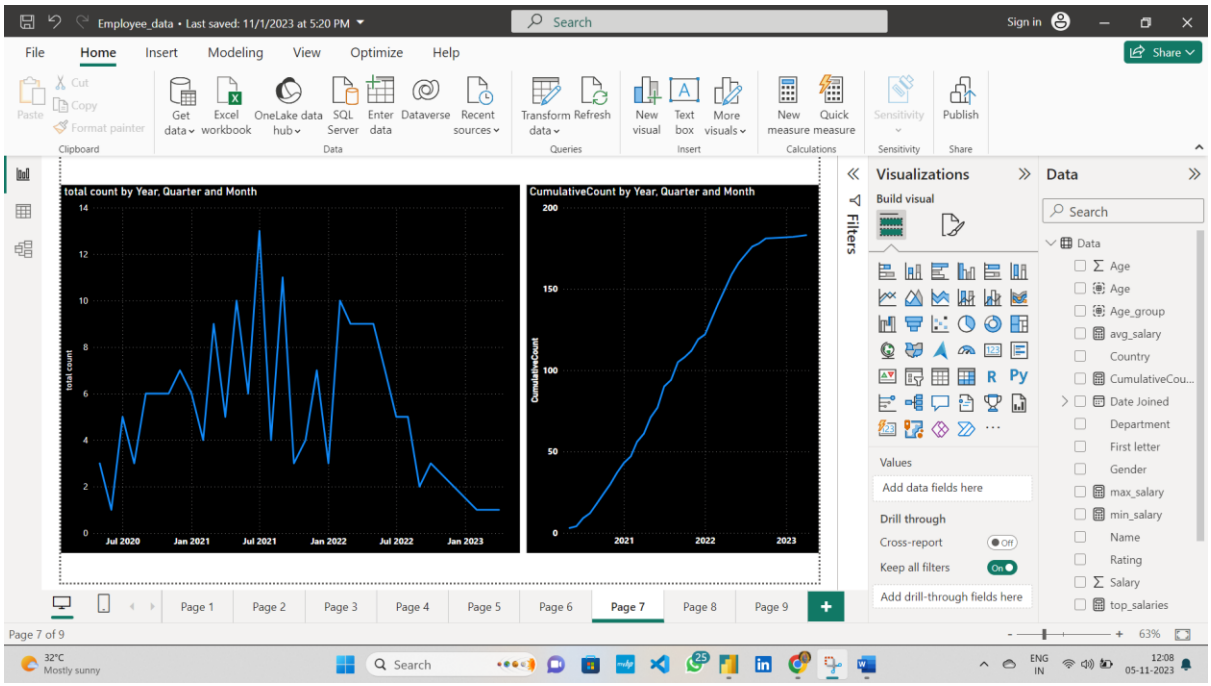


Page6- number of employees based on their rating and gender. For getting this order for rating, I added anew table named field_order and mapped its rating column with rating column of data table.

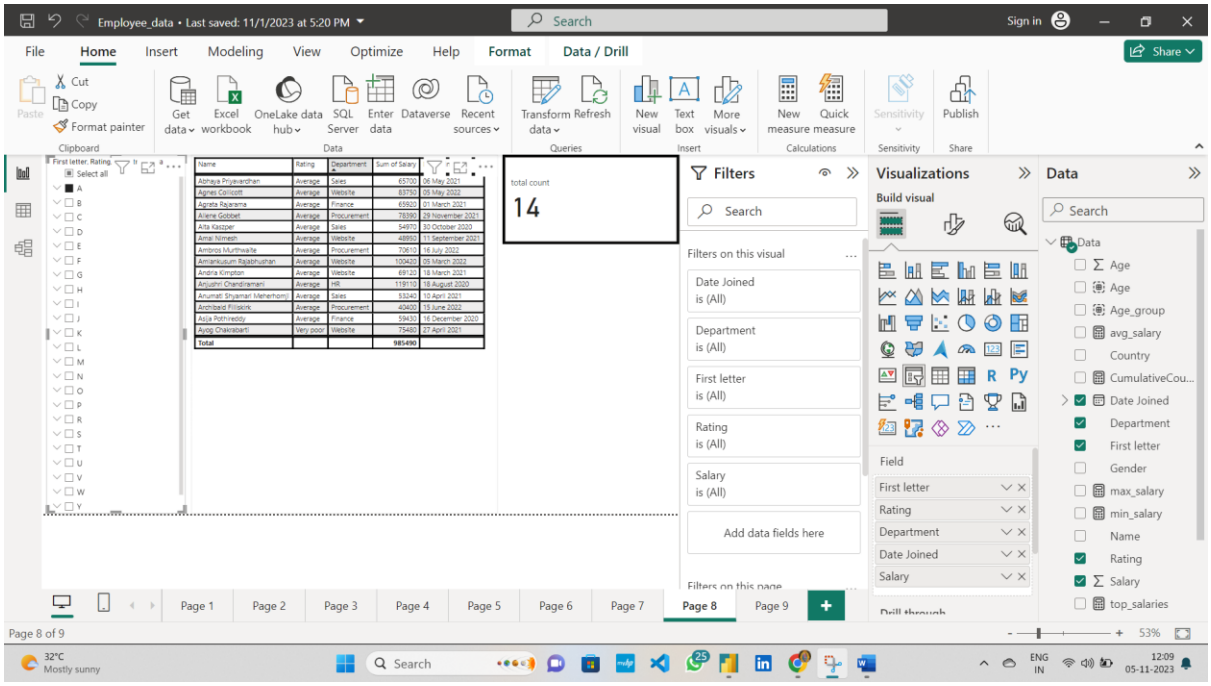
The order of rating column in field_order table is related to order column which is an integer in the same table. You find model view images at last of this document.



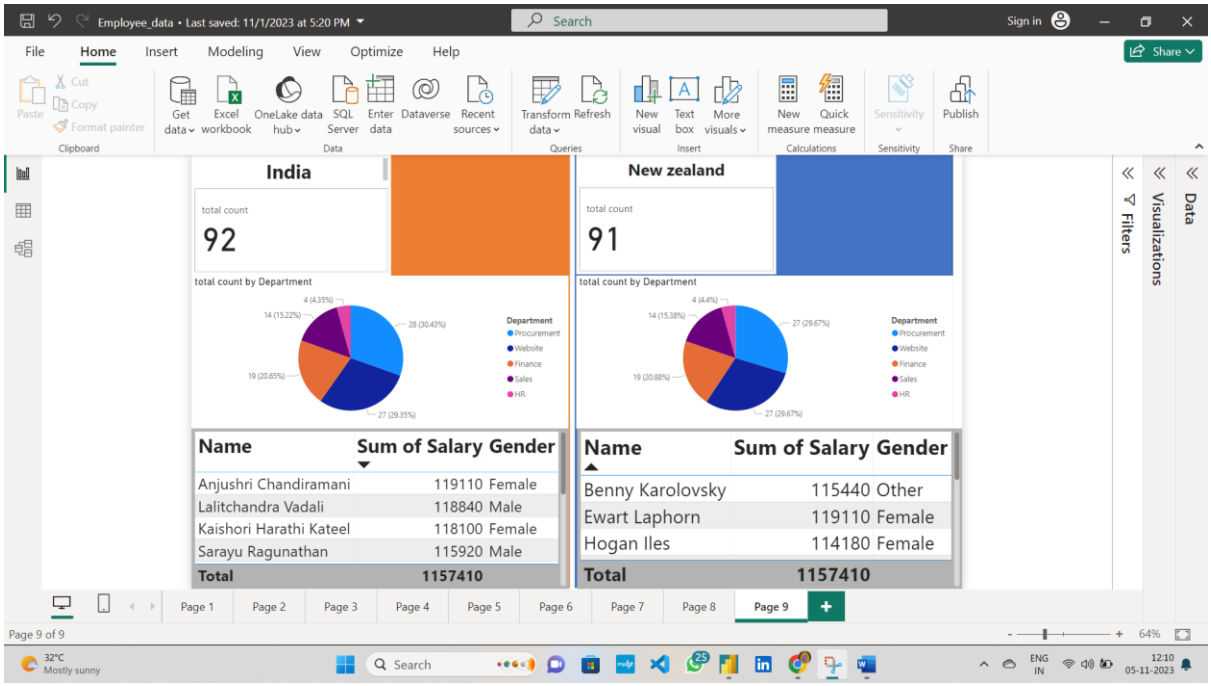
Page7- number of employees hired across 3 years, right side view is cumulative count of employees hired. We can drill this view from years to quarters and months.



Page8- Classification of employees base on the first letter in their names and a score card is added to know number of employees of particular selection in slicer. For getting first letter from names, I have added a new column to data table by extracting first letter from name column. You can observe it in table view of data which image is placed at last of document.



Page9- Total number of employees, top 10 salaries earning employees and their details are shown in this report and classified based on country.



Model view:

I added a table named field_order and its rating field is mapped to rating field in data table to sort the rating field order in a desired way based on order field(integer) in field order table.

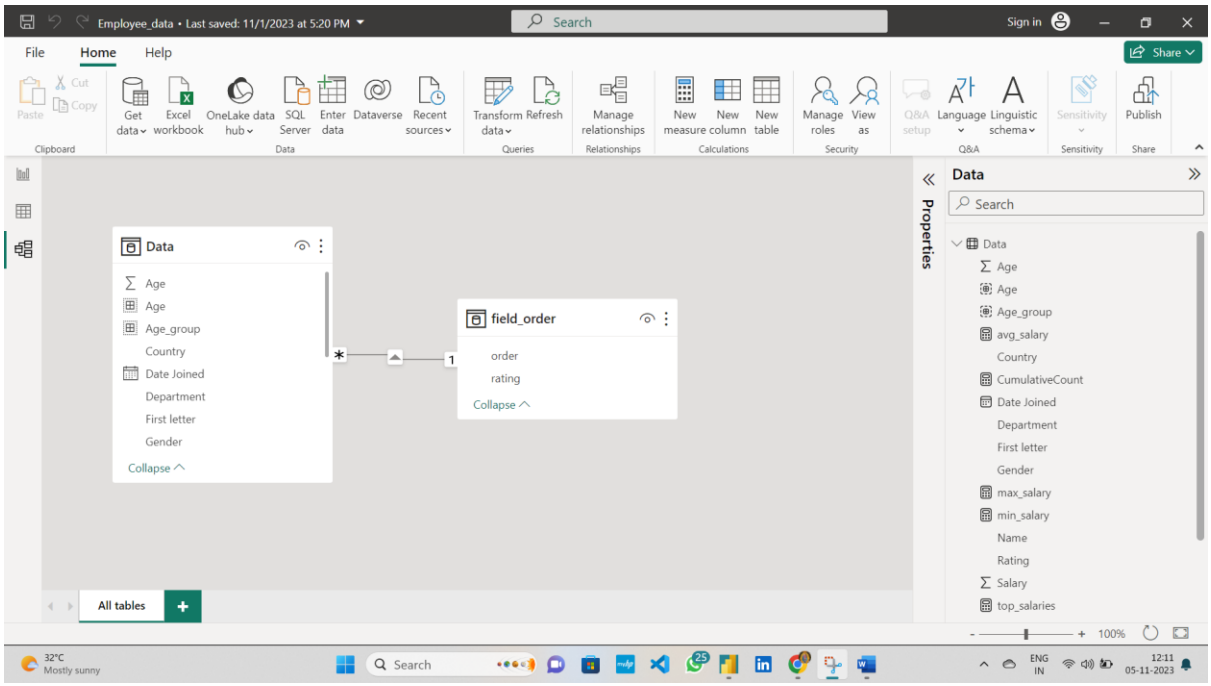
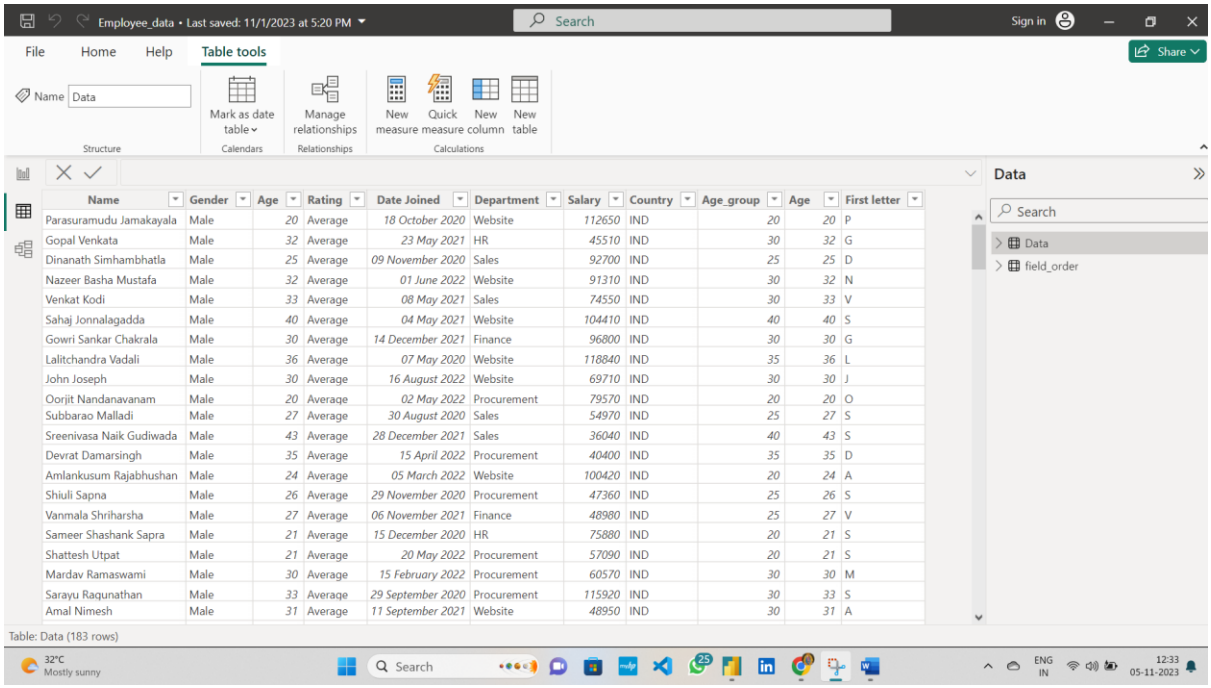
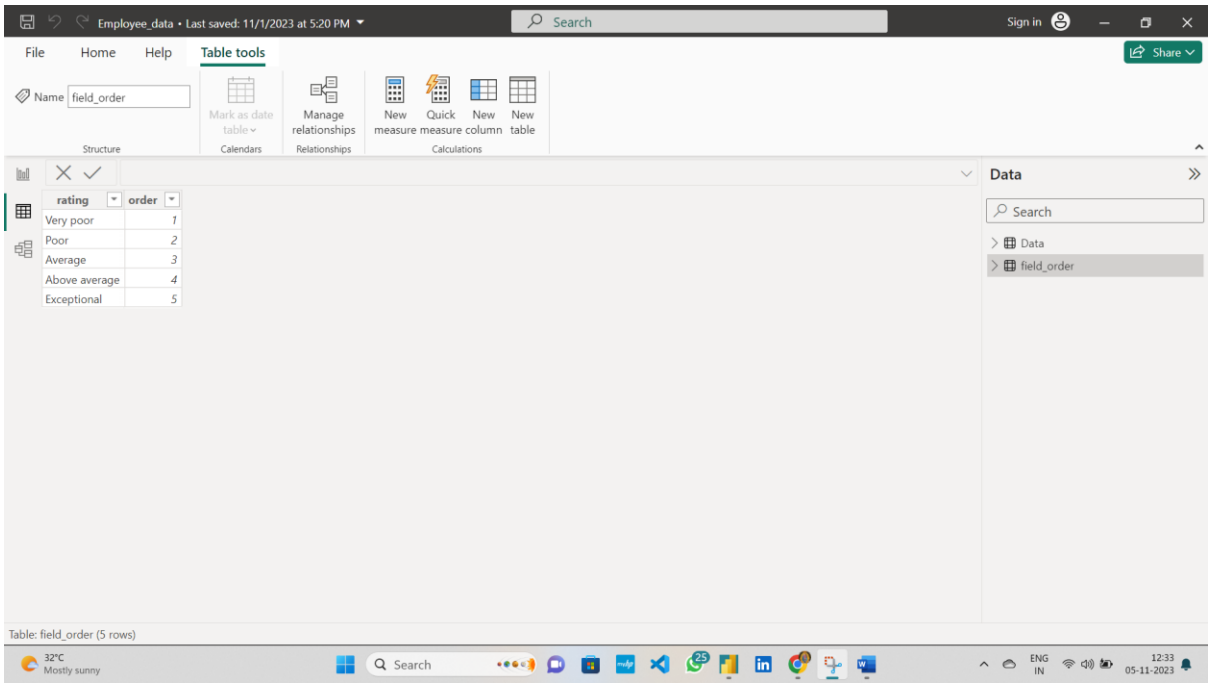


Table view:

Below images shows table view of used data for Power BI reports.



Name	Gender	Age	Rating	Date Joined	Department	Salary	Country	Age_group	Age	First letter
Parasuramudu Jamakayala	Male	20	Average	18 October 2020	Website	112650	IND	20	20	P
Gopal Venkata	Male	32	Average	23 May 2021	HR	45510	IND	30	32	G
Dinanath Simhambhatla	Male	25	Average	09 November 2020	Sales	92700	IND	25	25	D
Nazeer Basha Mustafa	Male	32	Average	01 June 2022	Website	91310	IND	30	32	N
Venkat Kodi	Male	33	Average	08 May 2021	Sales	74550	IND	30	33	V
Sahaj Jonnalagadda	Male	40	Average	04 May 2021	Website	104410	IND	40	40	S
Gowri Sankar Chakrala	Male	30	Average	14 December 2021	Finance	96800	IND	30	30	G
Lalitchandra Vadali	Male	36	Average	07 May 2020	Website	118840	IND	35	36	L
John Joseph	Male	30	Average	16 August 2022	Website	69710	IND	30	30	J
Oorjit Nandanavanam	Male	20	Average	02 May 2022	Procurement	79570	IND	20	20	O
Subbarao Malladi	Male	27	Average	30 August 2020	Sales	54970	IND	25	27	S
Sreenivasa Naik Gudiwada	Male	43	Average	28 December 2021	Sales	36040	IND	40	43	S
Devrat Damarsingh	Male	35	Average	15 April 2022	Procurement	40400	IND	35	35	D
Amlankusum Rajabhushan	Male	24	Average	05 March 2022	Website	100420	IND	20	24	A
Shiuli Sapna	Male	26	Average	29 November 2020	Procurement	47360	IND	25	26	S
Vanmala Shriharsha	Male	27	Average	06 November 2021	Finance	48980	IND	25	27	V
Sameer Shashank Sapra	Male	21	Average	15 December 2020	HR	75880	IND	20	21	S
Shattesh Utpat	Male	21	Average	20 May 2022	Procurement	57090	IND	20	21	S
Mardav Ramaswami	Male	30	Average	15 February 2022	Procurement	60570	IND	30	30	M
Sarayu Ragunathan	Male	33	Average	29 September 2020	Procurement	115920	IND	30	33	S
Amal Nimesh	Male	31	Average	11 September 2021	Website	48950	IND	30	31	A



rating	order
Very poor	1
Poor	2
Average	3
Above average	4
Exceptional	5

Conclusion:

In these reports, Employees data analysis and visualization is done based some important factors such as count, salary etc.

For this analysis I have used,

measures mostly in reports because those will not add additional data to reports and hence storage optimization is possible.

slicers to filter data based on country rather than directly filter it, it will help to users to interact with data.

score cards less whenever there is a need to show number of employees for a particular filter condition.

Added an additional table and mapped its rating column which is related to order column[integer] of same table with main table rating column for getting desired order of data during data visualization.

Remaining graphs, tables, pie-charts etc are used based on their need in data visualization.