PROJECT DEVELOPMENT PHASE

SPRINT 2

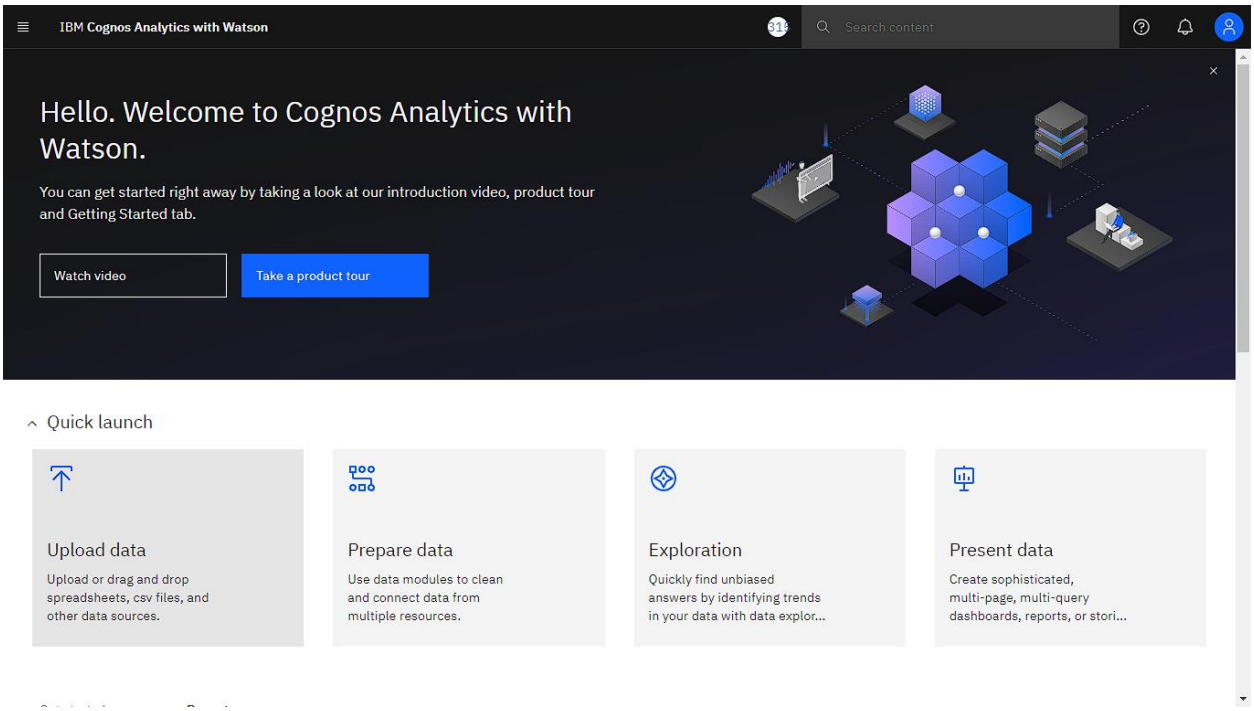
Date	10 NOVEMBER 2022
TEAM ID	PNT2022TMID00859
PROJECT NAME	CORPORATE EMPLOYEE ATTRITION ANALYTICS

SPRINT 2 FUNCTIONAL REQUIREMENTS:

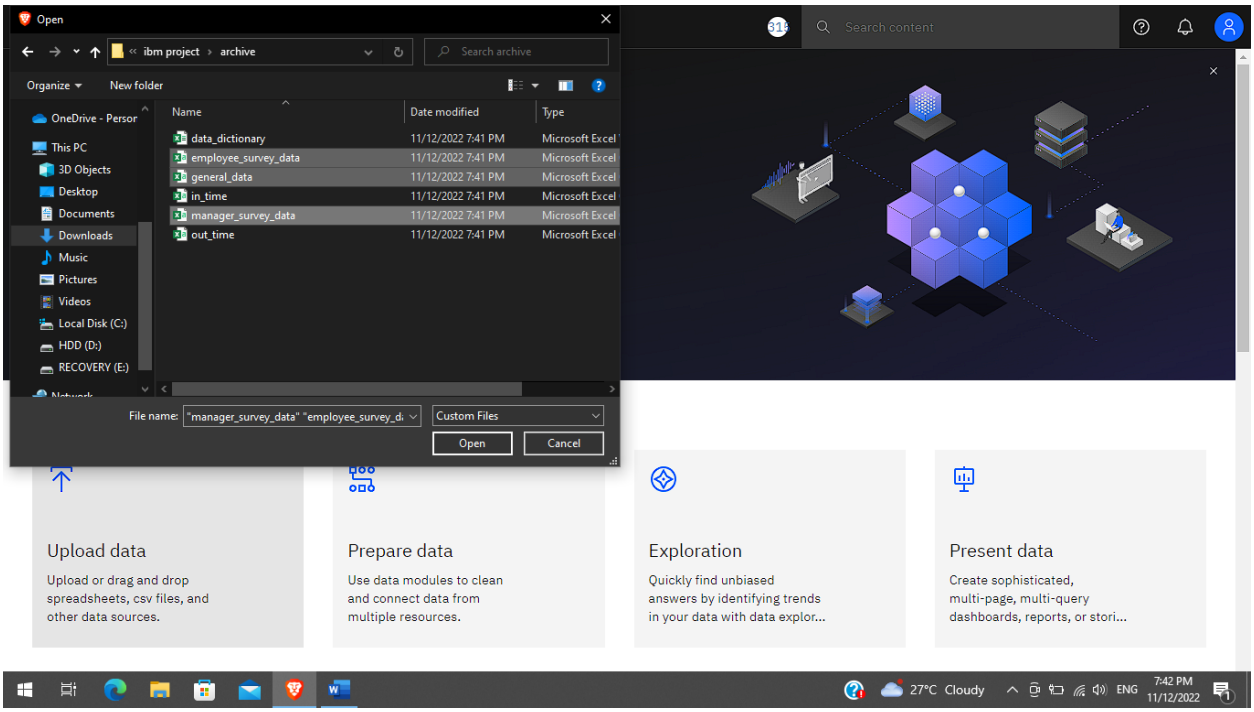
- UPLOAD DATA
- PREPARE DATA
- DATA VISUALIZATION

UPLOAD DATA:

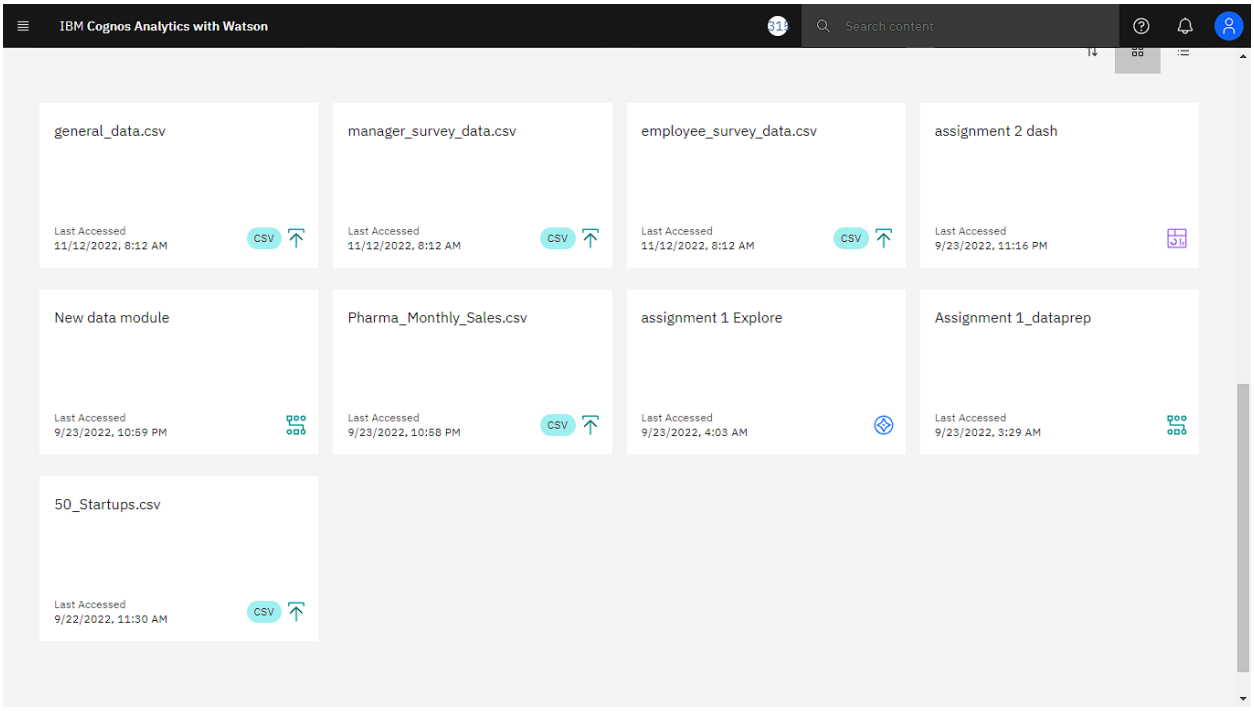
STEP 1: Click on the upload data which is available in quick launch.



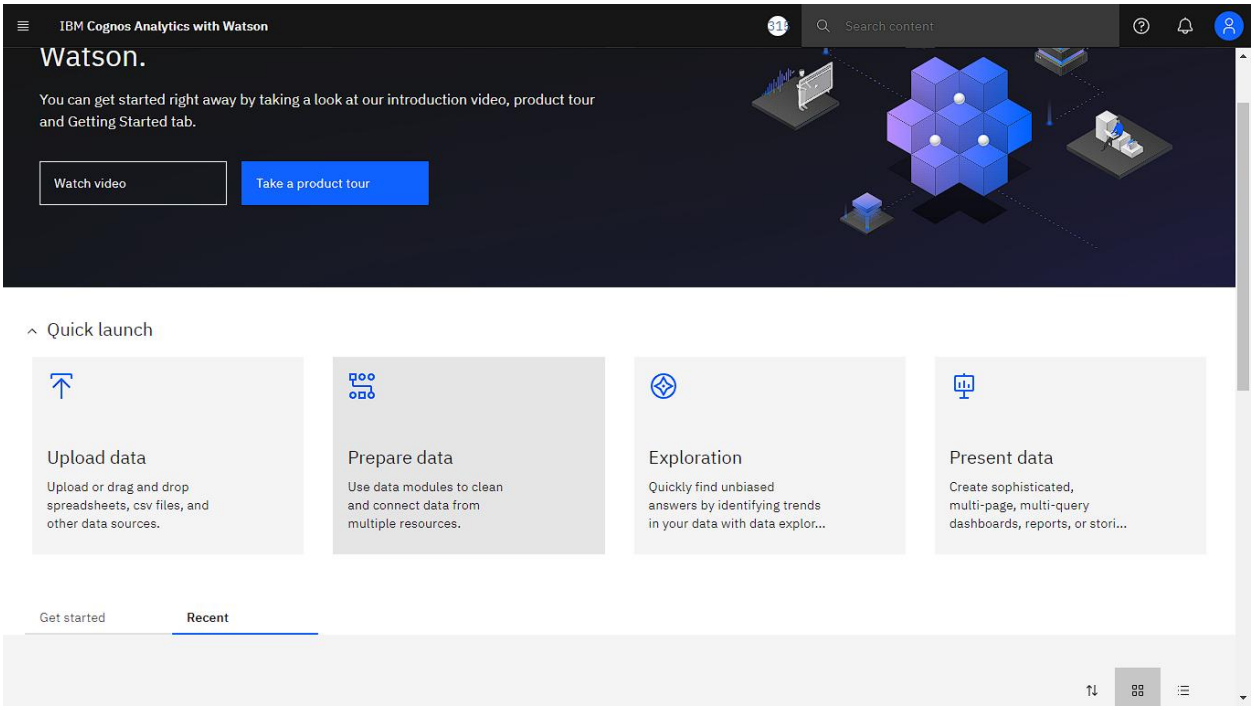
STEP 2: Select the destination of the data and click “open”.



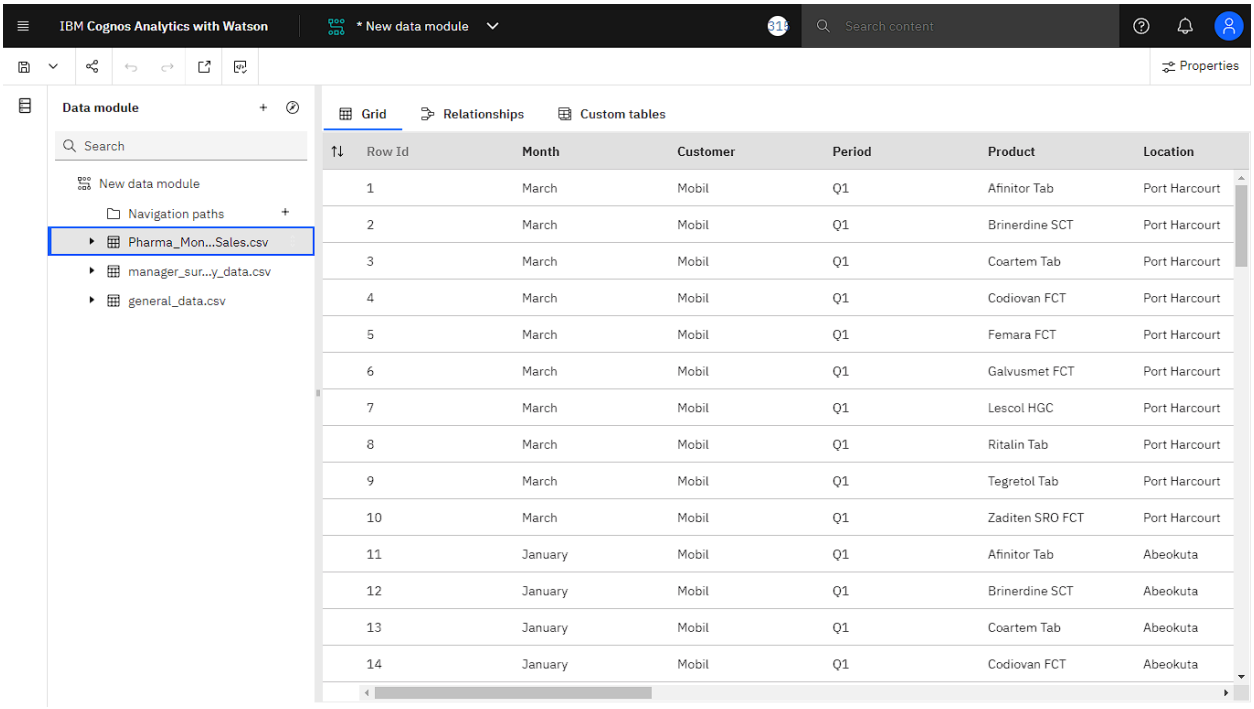
STEP 3: Now we can see the uploaded data in the recents section.



STEP 4: Click on the “Prepare Data” option in the quick launch menu.

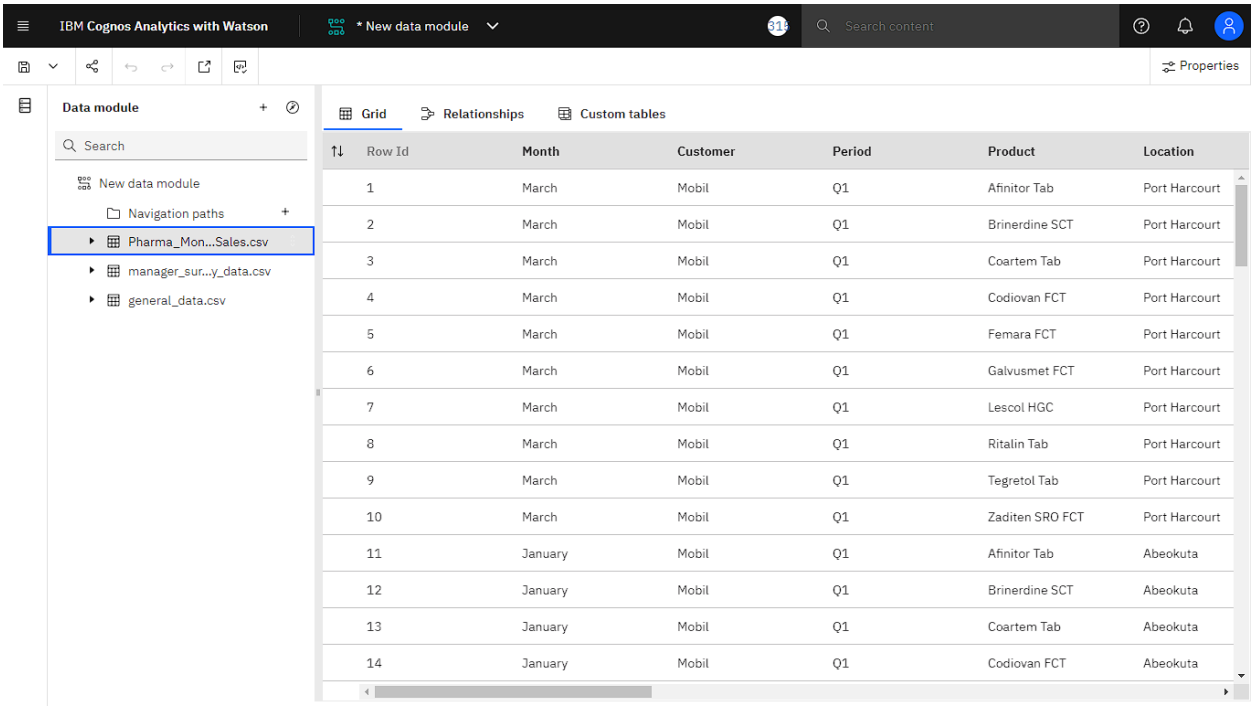


STEP 5: Select the .csv files which we want to prepare.

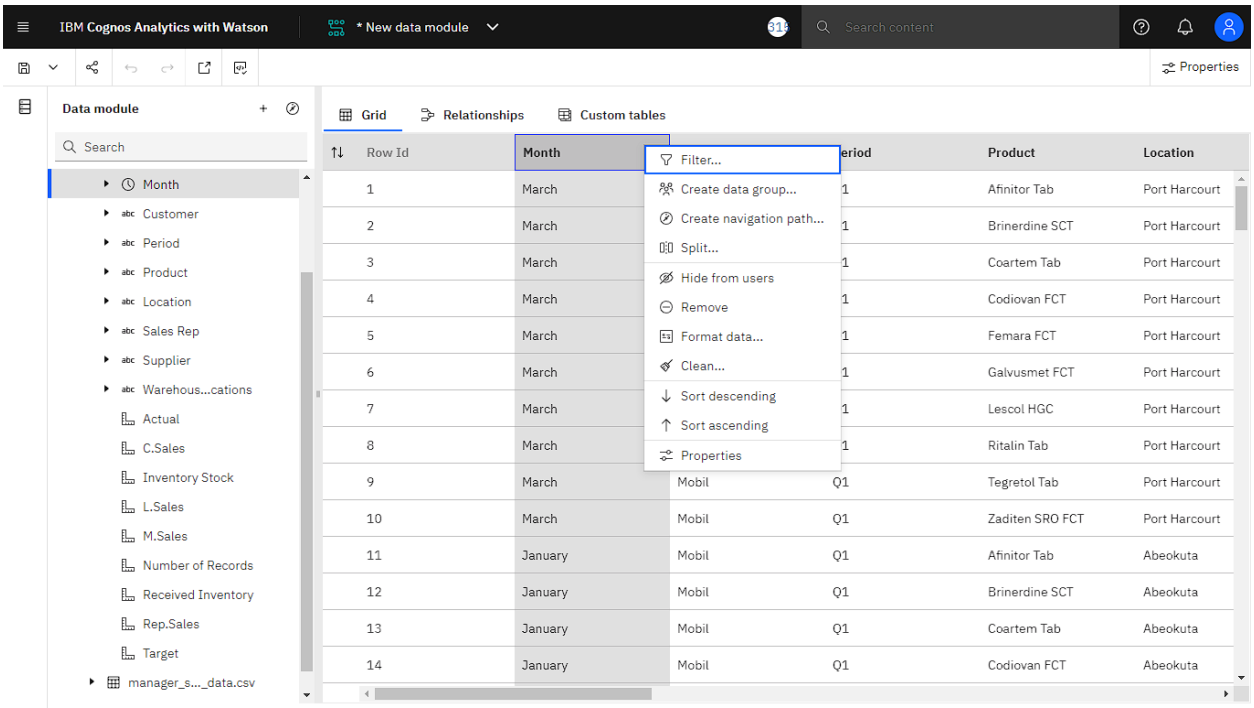


PREPARE DATA:

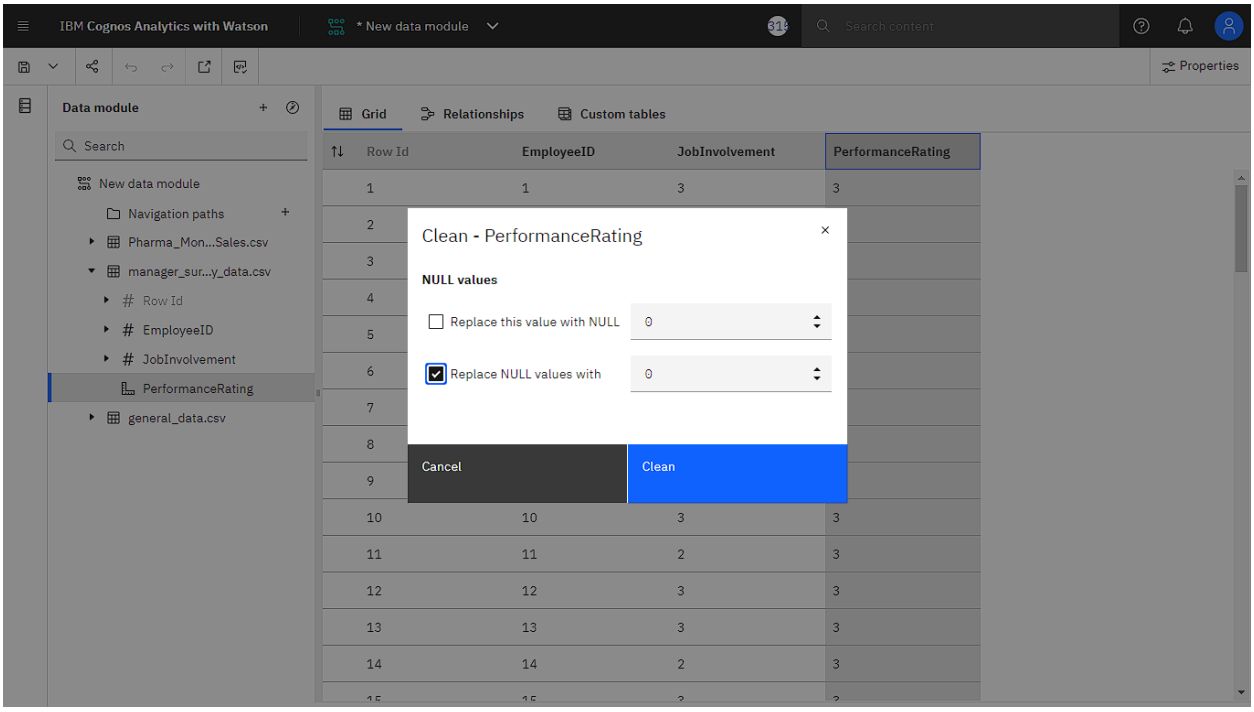
STEP 6: We can see the data tables, here we need to clean the data set using clean option.



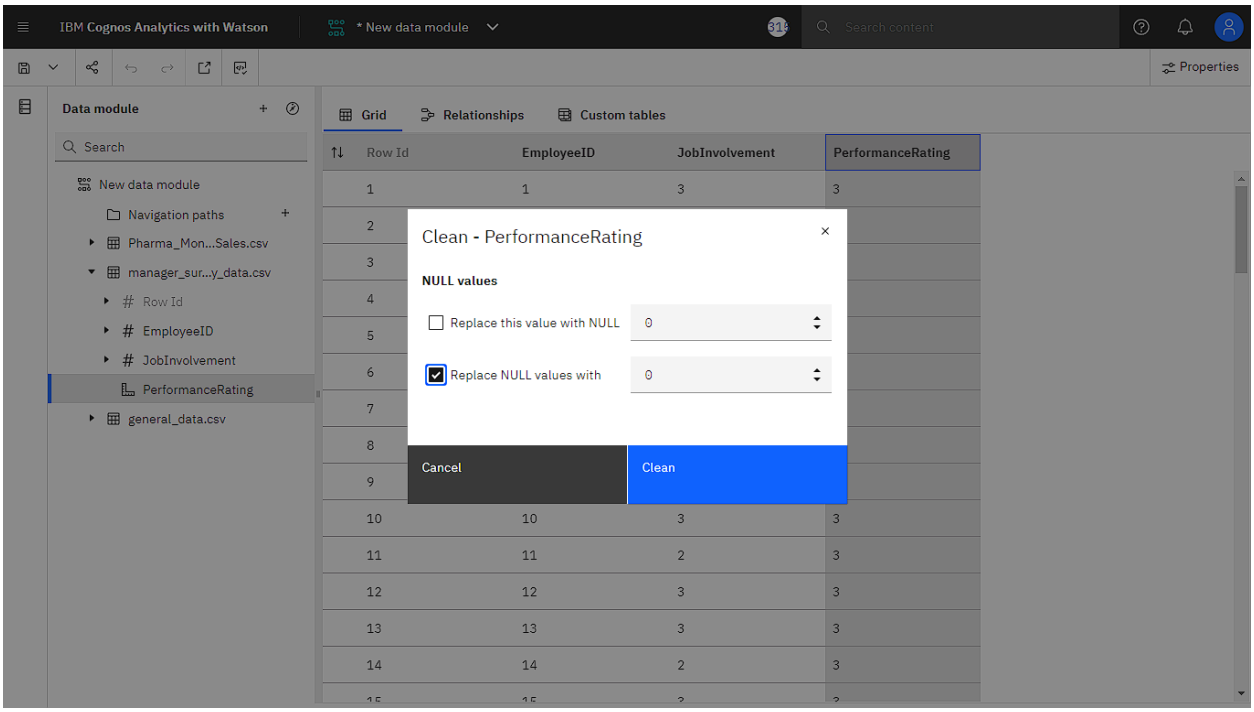
STEP 7: Right click on the column name and select “Clean” option.



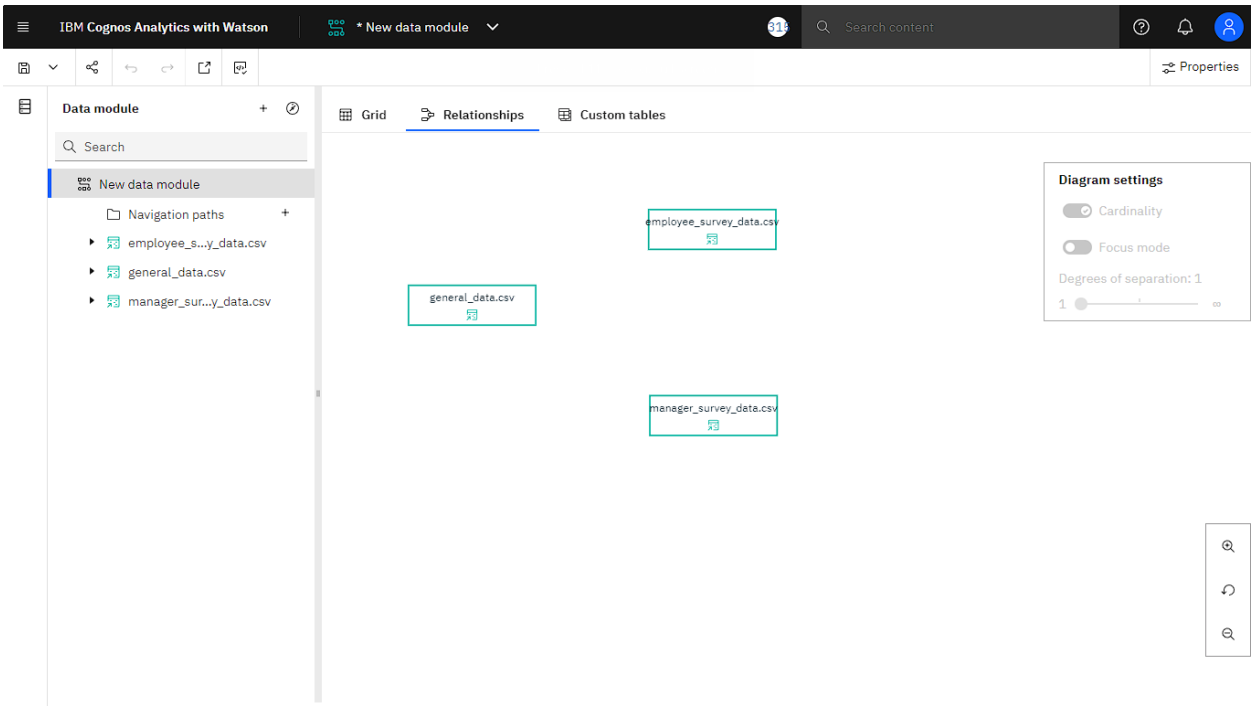
STEP 8: Enter the conditions to clean the data for eg:replace the null values with 0.



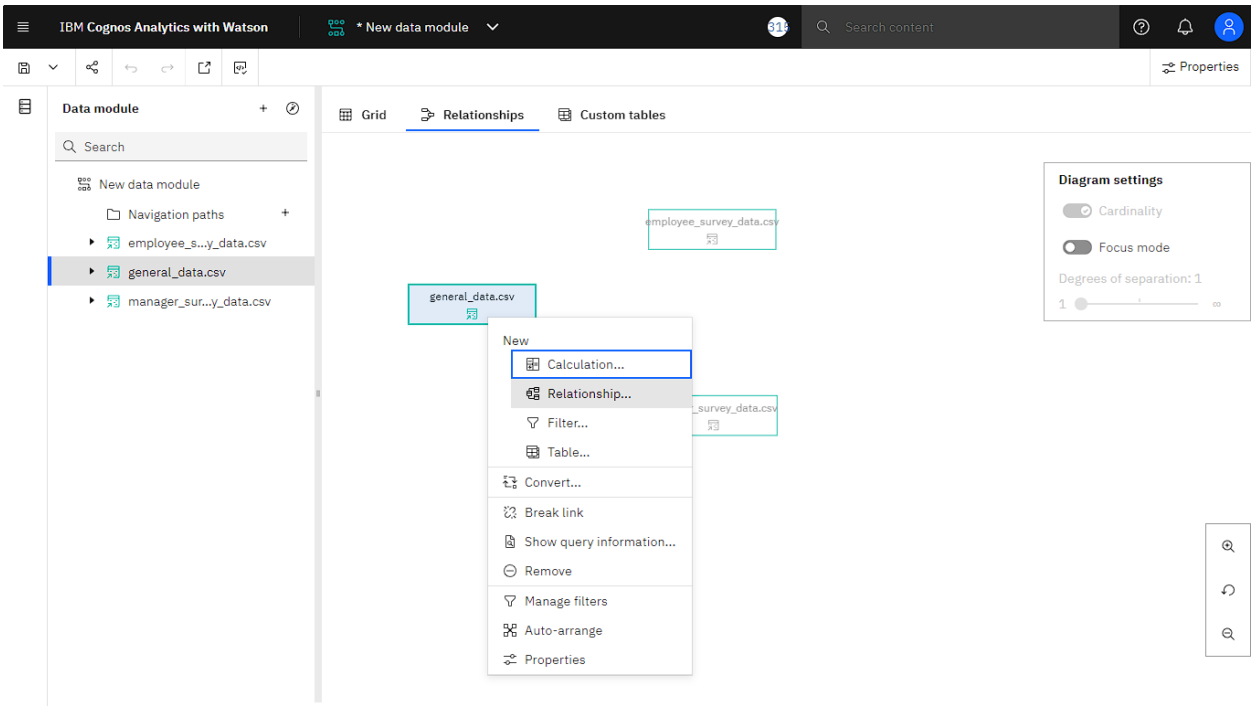
STEP 9: Repeat this step for all Data set files.

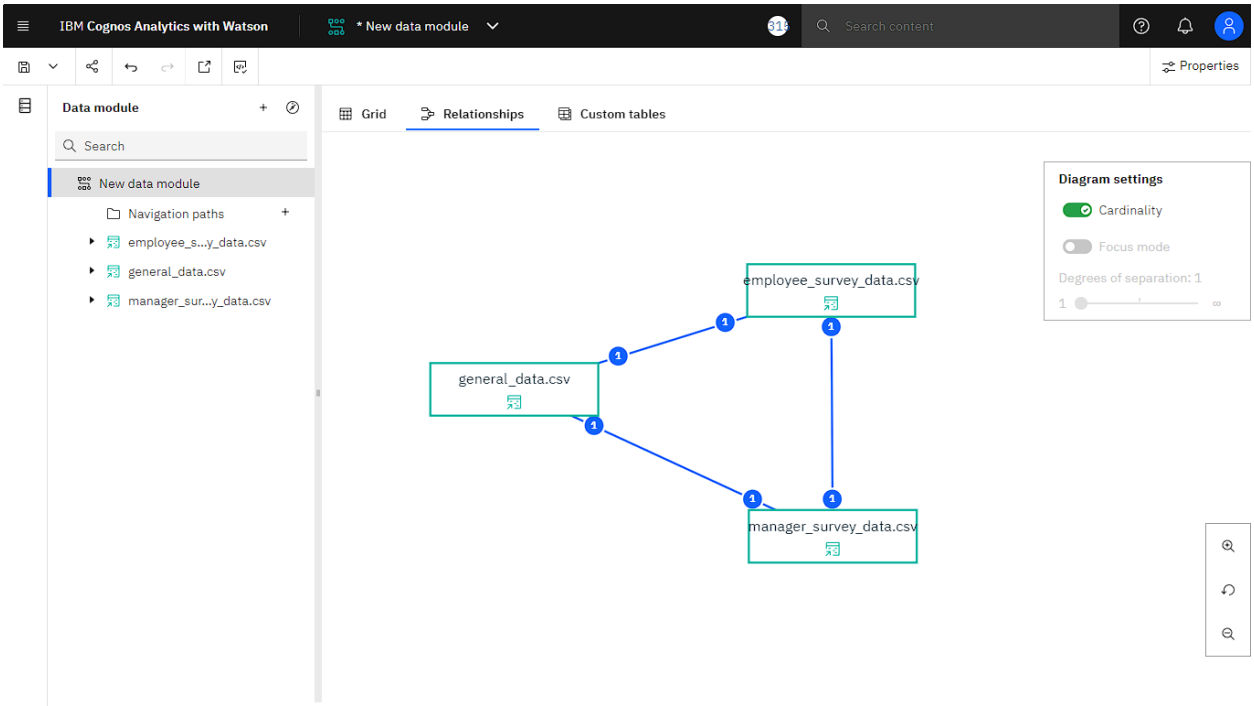


STEP 10: Draw relationships between tables to create connection from relationships tab.

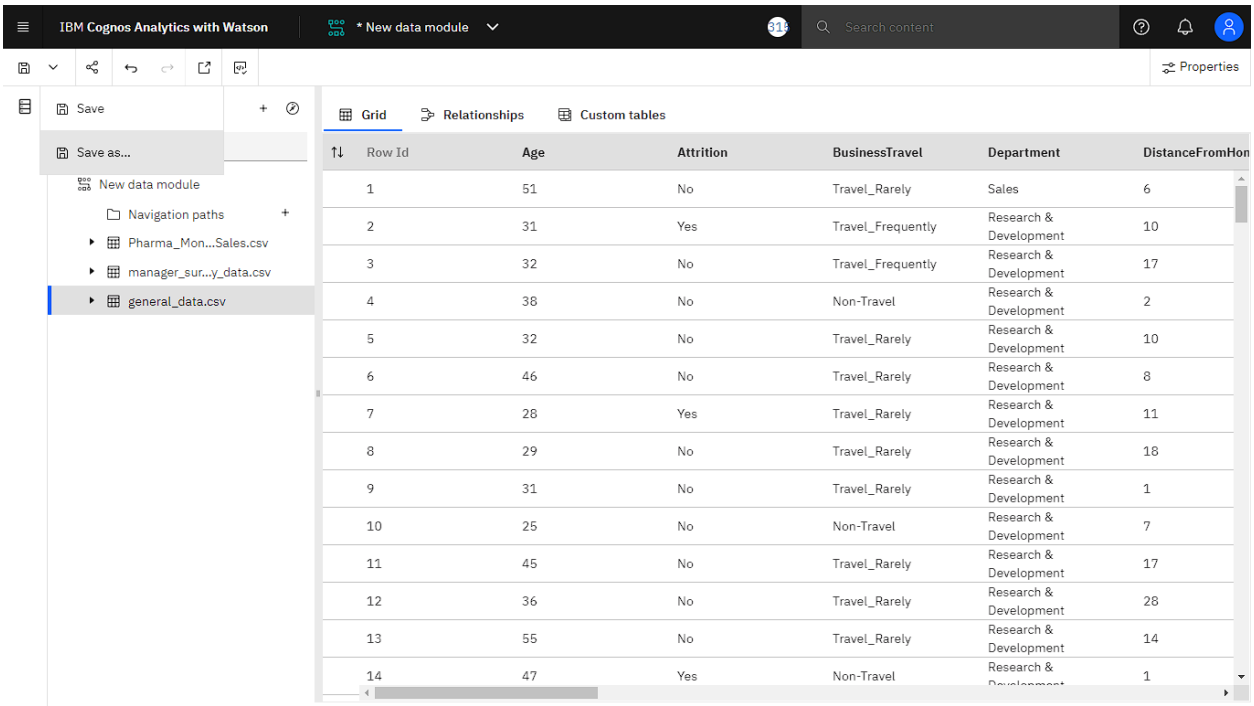


STEP 11: Draw connection as per need.





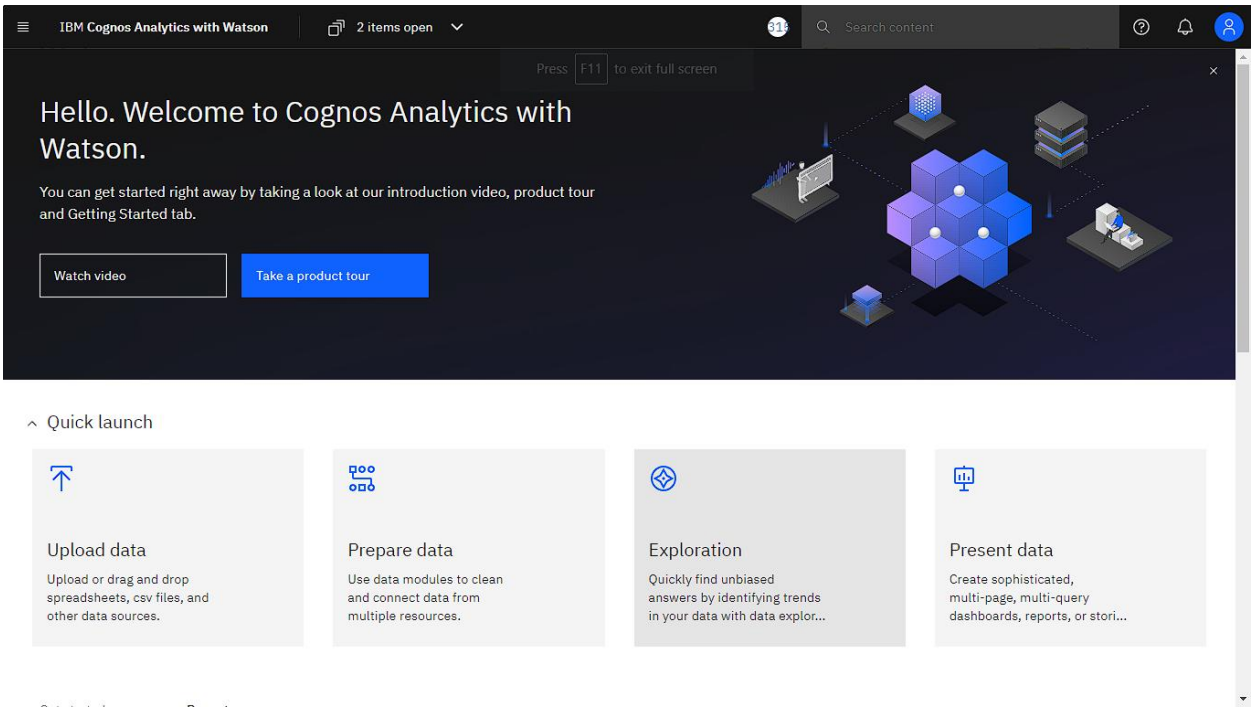
STEP 12: Now save the Prepared_Dataset



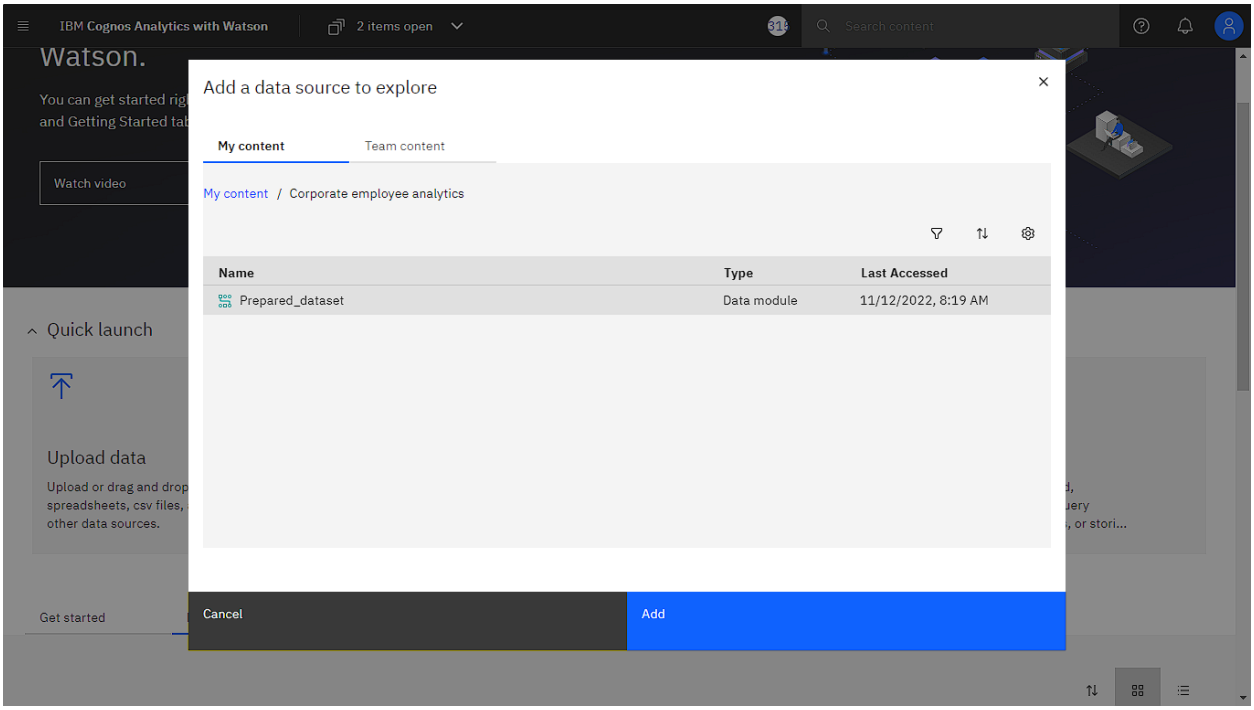
Row Id	Age	Attrition	BusinessTravel	Department	DistanceFromHon
1	51	No	Travel_Rarely	Sales	6
2	31	Yes	Travel_Frequently	Research & Development	10
3	32	No	Travel_Frequently	Research & Development	17
4	38	No	Non-Travel	Research & Development	2
5	32	No	Travel_Rarely	Research & Development	10
6	46	No	Travel_Rarely	Research & Development	8
7	28	Yes	Travel_Rarely	Research & Development	11
8	29	No	Travel_Rarely	Research & Development	18
9	31	No	Travel_Rarely	Research & Development	1
10	25	No	Non-Travel	Research & Development	7
11	45	No	Travel_Rarely	Research & Development	17
12	36	No	Travel_Rarely	Research & Development	28
13	55	No	Travel_Rarely	Research & Development	14
14	47	Yes	Non-Travel	Research &	1

DATA EXPLORATION:

STEP 1: Click on Exploration from quick launch menu.

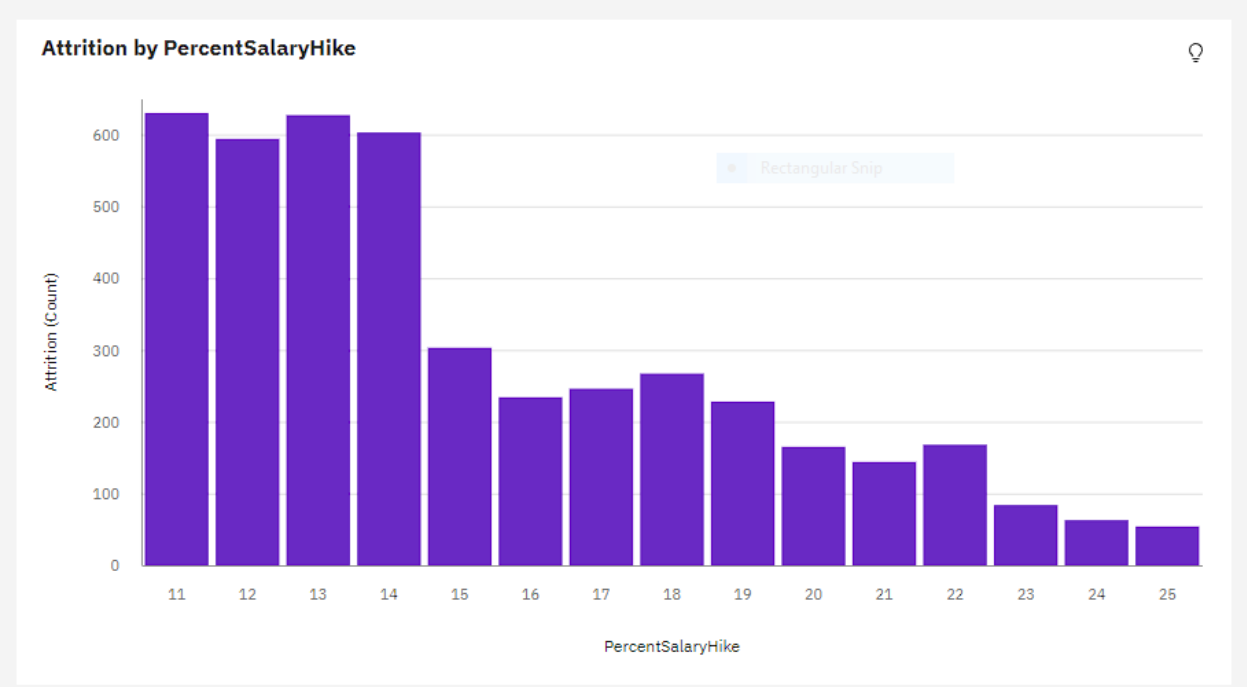


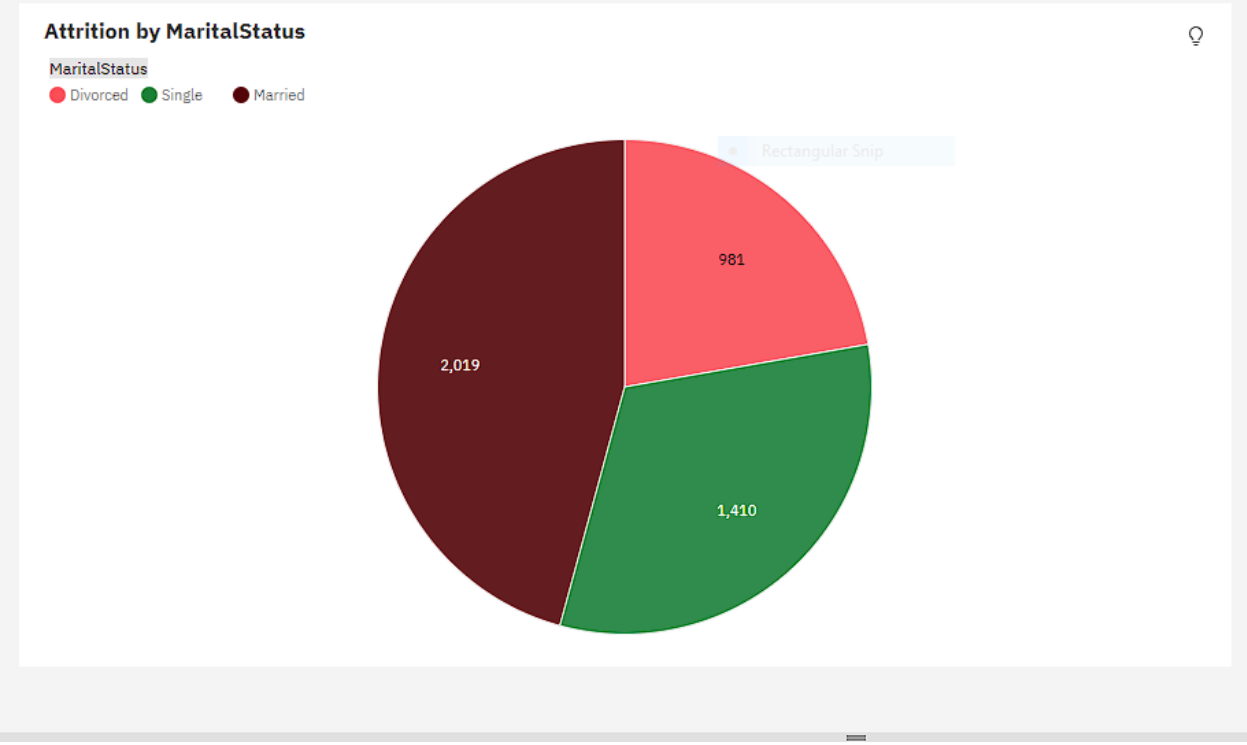
STEP 2: Select the previously saved dataprep file.

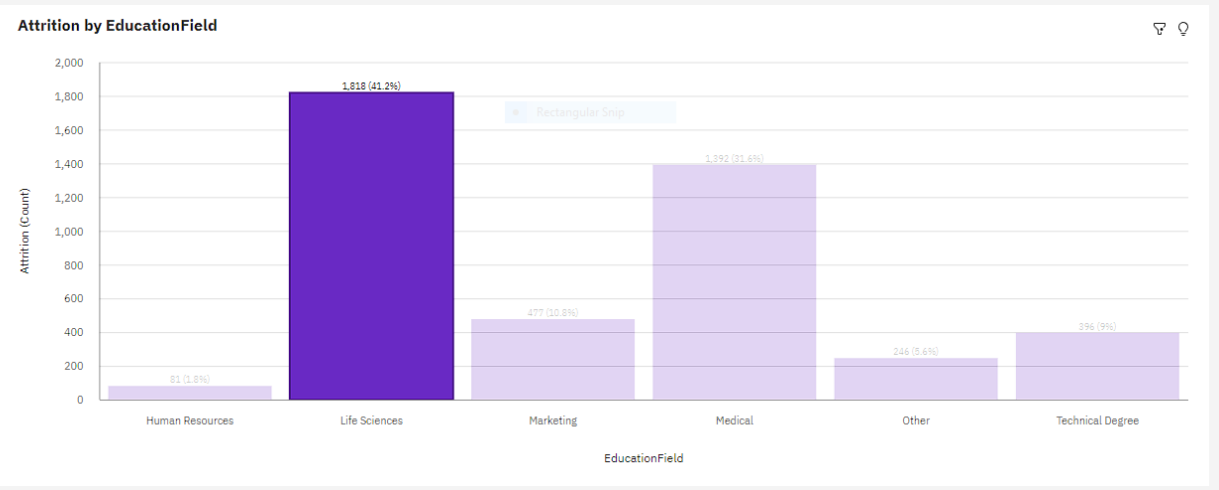


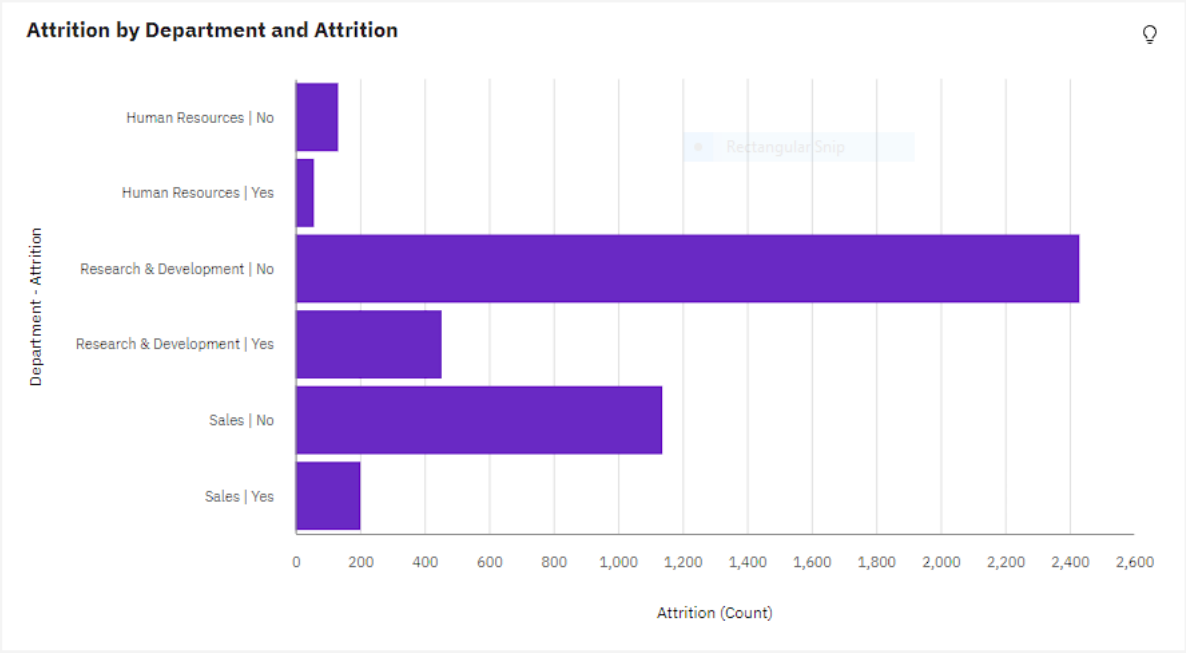
STEP 3: Draw various charts based on your needs

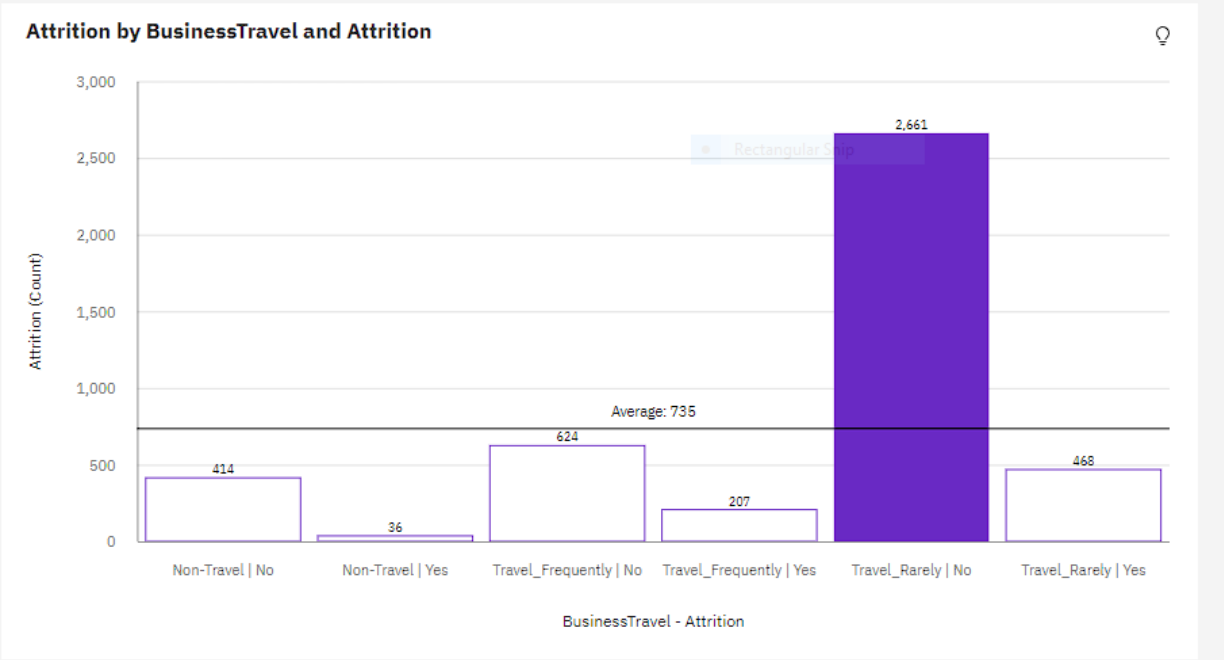
For example:

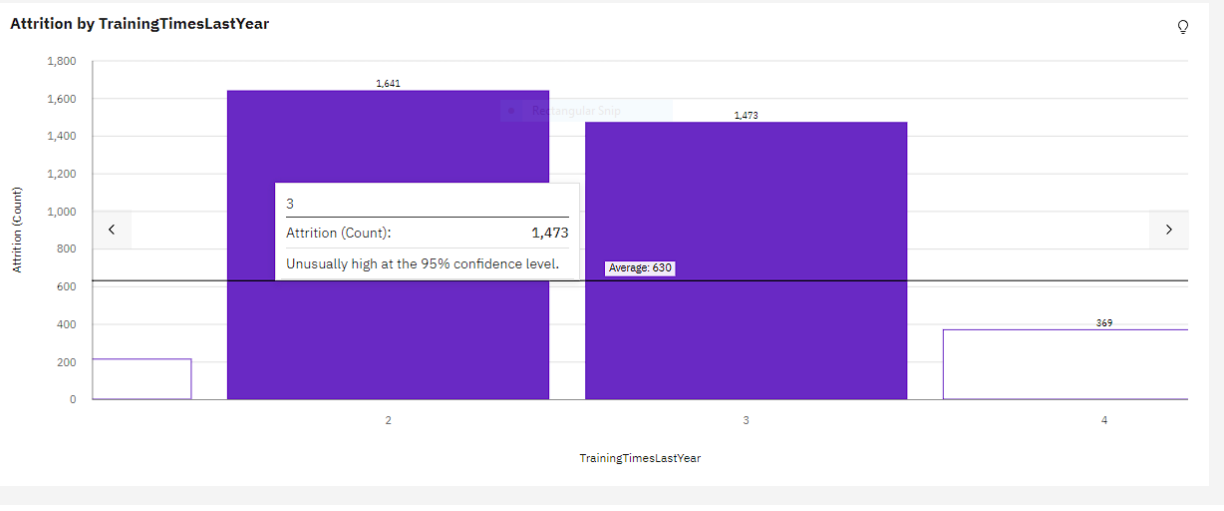


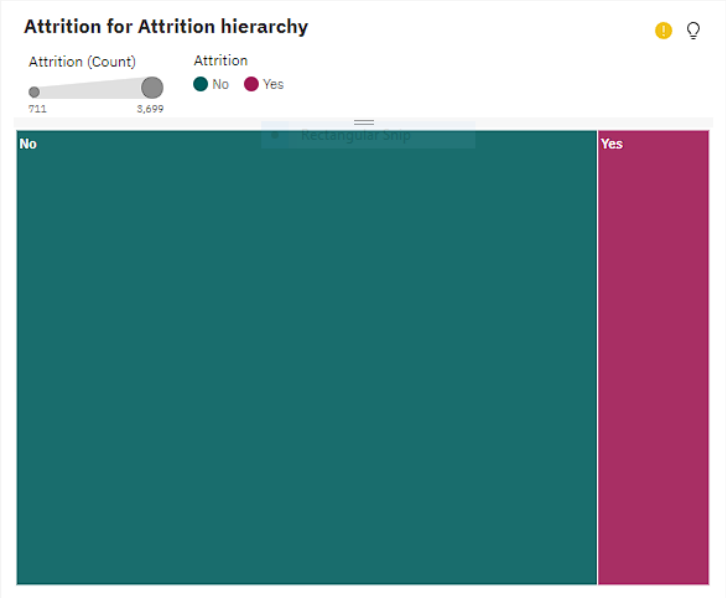



Attrition by EducationField
2,000
1,800
1,600
1,400
1,200
1,000
800
600
400
200
0
Attrition (Count)
1,818 (41.2%)
1,392 (31.6%)
477 (10.8%)
396 (9%)
246 (5.6%)
81 (1.8%)
Human Resources
Life Sciences
Marketing
Medical
Other
Technical Degree
EducationField


Attrition by Department and Attrition
Human Resources | No
Human Resources | Yes
Research & Development | No
Research & Development | Yes
Sales | No
Sales | Yes
Department - Attrition
0
200
400
600
800
1,000
1,200
1,400
1,600
1,800
2,000
2,200
2,400
2,600
Attrition (Count)


Attrition by BusinessTravel and Attrition
3,000
2,500
2,000
1,500
1,000
500
0
Attrition (Count)
Average: 735
414
36
624
207
2,661
468
Non-Travel | No
Non-Travel | Yes
Travel_Frequently | No
Travel_Frequently | Yes
Travel_Rarely | No
Travel_Rarely | Yes
BusinessTravel - Attrition


Attrition by TrainingTimesLastYear
1,800
1,600
1,400
1,200
1,000
800
600
400
200
0
Attrition (Count)
1,641
1,473
369
Average: 630
3
Attrition (Count): 1,473
Unusually high at the 95% confidence level.
2
3
4
TrainingTimesLastYear



Details

The total number of results for **Attrition**, across all **Attrition**, is almost 4500.

The most common value of **Attrition** is No, occurring over 3500 times, which is 83.9 % of the total.