

UNDERSTANDING THE DATASET

Team ID	PNT2022TMID02953
Project Name	Corporate Employee Attrition Analysis
Maximum Marks	8 Marks

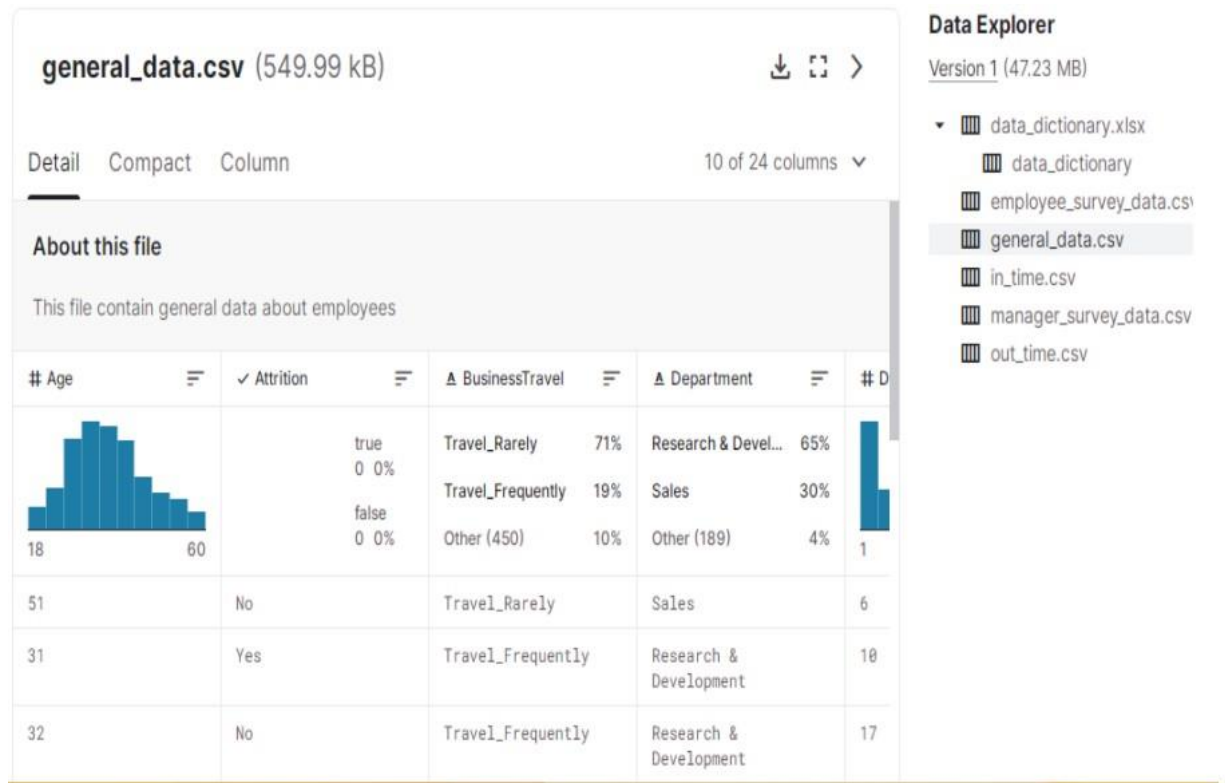
This project is based on an understanding of the factors to keep employees at the Company and which prompt others to leave. The has been downloaded from the [Dataset](#) : We need to use only (3 files - General_data.csv, Employee_Survey_Data.csv, Manager_Survey_data.csv) for the current project.

Let us try to understand each field of the data (general_data.csv)

Below are the values each column has. The column names are pretty self-explanatory.

1. AGE Numerical Value
2. ATTRITION Employee leaving the company (0=no, 1=yes)
3. BUSINESS TRAVEL (1=No Travel, 2=Travel Frequently, 3=Travel Rarely)
4. DEPARTMENT (1=HR, 2=R&D, 3=Sales)
5. DISTANCE FROM HOME Numerical Value - THE DISTANCE FROM WORK TO HOME
6. EDUCATION Numerical Value. (1 'Below College' 2 'College' 3 'Bachelor' 4 'Master' 5 'Doctor')
7. EDUCATION FIELD (1=HR, 2=LIFE SCIENCES, 3=MARKETING, 4=MEDICAL SCIENCES, 5=OTHERS, 6= TECHNICAL)
8. EMPLOYEE COUNT Numerical Value
9. EMPLOYEE ID Numerical Value
10. GENDER (1=FEMALE, 2=MALE)
11. JOB LEVEL Numerical Value
12. JOB ROLE (1=HR REP, 2=HR, 3=LAB TECHNICIAN, 4=MANAGER, 5=MANAGING DIRECTOR, 6= RESEARCH DIRECTOR, 7= RESEARCH SCIENTIST, 8=SALES EXECUTIVE, 9= SALES REPRESENTATIVE)
13. MARITAL STATUS (1=DIVORCED, 2=MARRIED, 3=SINGLE)
14. MONTHLY INCOME Numerical Value - MONTHLY SALARY
15. NUMCOMPANIES WORKED Numerical Value - NO. OF COMPANIES WORKED AT
16. OVER 18 (1=YES, 2=NO)
17. PERCENT SALARY HIKE Numerical Value - PERCENTAGE INCREASE IN SALARY
18. STANDARD HOURS Numerical Value - STANDARD HOURS
19. STOCK OPTIONS LEVEL Numerical Value - STOCK OPTIONS (Higher thenumber, the more stock option an employee has)
20. TOTAL WORKING YEARS Numerical Value - TOTAL YEARS WORKED
21. TRAINING TIMES LAST YEAR Numerical Value - HOURS SPENT TRAINING
22. YEARS AT COMPANY Numerical Value - TOTAL NUMBER OF YEARS AT THE COMPANY

23. YEARS SINCE LAST PROMOTION Numerical Value - LAST PROMOTION
24. YEARS WITH CURRENT MANAGER Numerical Value - YEARS SPENT WITH CURRENT MANAGER



- b. Let us try to understand about each field of the data (employee_survey_data.csv)
1. Employee ID
 2. Environment Satisfaction (1 'Low' 2 'Medium' 3 'High' 4 'Very High')
 3. Job Satisfaction (1 'Low' 2 'Medium' 3 'High' 4 'Very High')
 4. Work Life Balance (1 'Bad', 2 'Good', 3 'Better', 4 'Best')

employee_survey_data.csv (51.96 kB)



Detail Compact Column

4 of 4 columns ▾

About this file

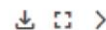
This file contains Survey result

EmployeeID	EnvironmentSatis...	JobSatisfaction	WorkLifeBalance
Employee number/id	Work Environment Satisfaction Level	Job Involvement Level Job Involvement Level Job Involvement Level	Work life balance level
	3 31% 4 30% Other (1726) 39%	4 31% 3 30% Other (1720) 39%	3 60% 2 23% Other (731) 17%
1	3	4	2
2	3	2	4

c. Let us try to understand about each field of the data (manager_survey_data.csv)

1. Employee ID
2. Job Involvement (1 'Low' 2 'Medium' 3 'High' 4 'Very High')
3. Performance Rating (1 'Low', 2 'Good', 3 'Excellent', 4 'Outstanding')

manager_survey_data.csv (43.04 kB)



Detail Compact Column

3 of 3 columns ▾

About this file

This file contains employees feedback survey about their managers

EmployeeID	JobInvolvement	PerformanceRating
		
1	3	3
2	2	4
3	3	3
4	2	3