

# PREPARING THE DATASET

Team ID	PNT2022TMID00695
Project Name	Corporate Employee Attrition Analysis
Maximum Marks	8 Marks

IBM Cognos Analytics with Watson

New data module

Search content

Create relationship

Table 1  
general\_data.csv

Table 2  
employee\_survey\_data.csv

EducationField  
EmployeeID  
Gender  
JobLevel  
JobRole

Row Id  
EmployeeID  
EnvironmentSatisfaction  
JobSatisfaction  
WorkLifeBalance

Match selected columns

StockOptionLevel	TotalWorkingYears	TrainingTimesLastYear	YearsAtCompany	YearsSinc...Promotion	YearsWith...rrManager	EmployeeID	EmployeeID
0	1	6	1	0	0	1	1
1	6	3	5	1	4	2	2
3	5	2	5	0	3	3	3
3	13	5	8	7	5	4	4

Inner join, 1-to-many  
No filtering

Matched columns (1)

IBM Cognos Analytics with Watson

New data module

Search content

Create relationship

Table 1  
general\_data.csv

Table 2  
manager\_survey\_data.csv

Education  
EducationField  
EmployeeID  
Gender  
JobLevel

Row Id  
EmployeeID  
JobInvolvement

Match selected columns

StockOptionLevel	TotalWorkingYears	TrainingTimesLastYear	YearsAtCompany	YearsSinc...Promotion	YearsWith...rrManager	EmployeeID	EmployeeID
0	1	6	1	0	0	1	1
1	6	3	5	1	4	2	2
3	5	2	5	0	3	3	3
3	13	5	8	7	5	4	4

Inner join, 1-to-many  
No filtering

Matched columns (1)

IBM Cognos Analytics with Watson

### Create relationship

Table 1  
employee\_survey\_data.csv

Search

- # Row Id
- # EmployeeID
- abc EnvironmentSatisfaction
- abc JobSatisfaction
- abc WorkLifeBalance

Table 2  
manager\_survey\_data.csv

Search

- # Row Id
- # EmployeeID
- # JobInvolvement

Match selected columns

Row Id	Environmen...isfaction	JobSatisfaction	WorkLifeBalance	EmployeeID	Row Id	JobInvolvement	PerformanceRating
1	3	4	2	1	1	3	3
2	3	2	4	2	2	2	4
3	2	2	1	3	3	3	3
4	4	4	3	4	4	2	3

Inner join, 1-to-many  
No filtering

Matched columns (1)

IBM Cognos Analytics with Watson

### Create relationship

Table 1  
manager\_survey\_data.csv

Search

- # Row Id
- # EmployeeID
- # JobInvolvement

Table 2  
employee\_survey\_data.csv

Search

- # Row Id
- # EmployeeID
- abc EnvironmentSatisfaction
- abc JobSatisfaction
- abc WorkLifeBalance

Match selected columns

Row Id	JobInvolvement	PerformanceRating	EmployeeID	Row Id	Environmen...isfaction	JobSatisfaction	WorkLifeE
1	3	3	1	1	3	4	2
2	2	4	2	2	3	2	4
3	3	3	3	3	2	2	1
4	2	3	4	4	4	4	3

Inner join, 1-to-many  
No filtering

Matched columns (1)

IBM Cognos Analytics with Watson

Edit relationship

Table 1: employee\_survey\_data.csv

Table 2: general\_data.csv

Match selected columns

Row Id	Environmen...isfaction	JobSatisfaction	WorkLifeBalance	EmployeeID	Row Id	Age	Attrition
1	3	4	2	1	1	51	No
2	3	2	4	2	2	31	Yes
3	2	2	1	3	3	32	No
4	4	4	3	4	4	38	No

Inner join, Many-to-1  
No filtering

Matched columns (1)

IBM Cognos Analytics with Watson

Edit relationship

Table 1: manager\_survey\_data.csv

Table 2: general\_data.csv

Match selected columns

Row Id	JobInvolvement	PerformanceRating	EmployeeID	Row Id	Age	Attrition	BusinessT
1	3	3	1	1	51	No	Travel_I
2	2	4	2	2	31	Yes	Travel_I
3	3	3	3	3	32	No	Travel_I
4	2	3	4	4	38	No	Non-Tra

Inner join, Many-to-1  
No filtering

Matched columns (1)

Data module

Search

New data module

Navigation paths

employee\_survey\_data.csv

general\_data.csv

manager\_survey\_data.csv

