HR Data Analysis

DataSet Contains of 5 sheets:

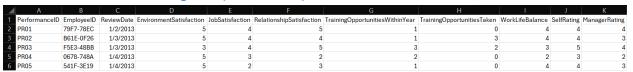
- 1. Education Level
- 2. Rating Level
- 3. Performance Rating
- 4. Employee
- 5. Satisfiction Level

Snapshots about Data

EducationaLevel.csv



Performance Rating.csv (6710 Rows)



RatingLevel.csv



• Employee.csv (1471 Rows)

		- 3			- /						
△ A	В	C	D	E F		G H	1	J	K L	М	N
EmployeeID	FirstName	LastName	Gende	er Age BusinessTr	avel Depart	ment DistanceFromHo	me (KM) State	e Ethnicity	Education EducationField	JobRole	MaritalStatus
3012-1A41	Leonelle	Simco	Fema	le 30 Some Trave	el Sales		27 IL	White	5 Marketing	Sales Executive	Divorced
CBCB-9C9D	Leonerd	Aland	Male	38 Some Trave	el Sales		23 CA	White	4 Marketing	Sales Executive	Single
95D7-1CE9		Sykes	Male	43 Some Trave		Resources	29 CA	Asian or Asian American	4 Marketing	HR Business Partner	Married
47A0-559B	Ermentrude	Berrie	Non-E	Sinar 39 Some Trave	l Techno	ology	12 IL	White	3 Computer Science	Engineering Manager	Married
		Р	Q	R	S	Т		U	V	W	
Salary	StockC	OptionLevel	OverTime	HireDate	Attrition	YearsAtCompany	YearsInl	MostRecentRole	YearsSinceLastPromotion	n YearsWithCur	rManager
10205	9	1	No	1/3/2012	No	10		4		9	7
15771	.8	0	Yes	1/4/2012	No	10		6	1	.0	0
30996	4	1	No	1/4/2012	No	10		6	1	.0	8
29313	2	0	No	1/5/2012	No	10		10	1	.0	0
4960	6	0	No	1/5/2012	Yes	6		1		1	6

Satisfied Level.csv

	Α	В
1	SatisfactionID	SatisfactionLevel
2	1	Very Dissatisfied
3	2	Dissatisfied
4	3	Neutral
5	4	Satisfied
6	5	Very Satisfied

HR Data Analysis Objectives

The primary objective of this project is to develop an **HR Analytics Dashboard** in Power BI, providing **data-driven insights** to help HR teams make informed decisions regarding employee performance, satisfaction, attrition, and career growth. The dashboard will offer interactive visualizations and real-time analytics.

1. Employee Performance Analysis

- What are the key factors influencing employee performance?
- How do self-ratings compare to manager ratings?
- Which employees have consistently high or low performance ratings?
- What is the relationship between job satisfaction and performance?
- **How** do training opportunities impact employee performance?

2. Employee Satisfaction & Engagement

- What are the most common satisfaction levels among employees?
- Which departments or roles have the highest and lowest satisfaction scores?
- How does work-life balance affect job satisfaction?
- What are the main reasons employees report dissatisfaction?
- **How** does training influence employee engagement and satisfaction?

3. Attrition & Retention Insights

- Who are the employees most likely to leave the company?
- What trends exist in employee attrition over time?
- Why are employees leaving, and what factors contribute to turnover?
- How does job role, promotion history, and manager relationship affect retention?

4. Education & Career Development Analysis

- How does education level impact employee performance and career progression?
- Which departments have the highest and lowest levels of employee education?
- What is the relationship between education and job satisfaction?
- **How** do training and upskilling efforts impact employee growth?

5. Diversity & Inclusion Insights

- What is the gender distribution across different job roles?
- **How** does diversity affect employee satisfaction and performance?
- Which ethnic groups are underrepresented in leadership roles?
- How does career progression vary across different demographic groups?

6. HR KPI Dashboard & Decision Support

- What key HR metrics should be monitored regularly?
- **How** can we visualize performance, satisfaction, and attrition trends in Power BI?
- What filters and drill-down options should be included for better insights?
- How can HR teams use data to make informed decisions?

7. Compensation & Benefits Analysis

- What is the salary distribution across different roles and departments?
- How does compensation relate to performance and satisfaction?
- Which employees receive stock options or other benefits, and how does it impact retention?

8. Workforce Planning & Future Trends

- What are the predicted workforce trends for the coming years?
- Which departments are at risk of staffing shortages?
- **How** can HR prepare for future hiring and training needs?
- What strategies can help improve employee retention and development?