

## **HR ANALYTICS DASHBOARD** (POWER BI)

```
import pandas as pd
from datetime import datetime

# Sample HR Dataset
data = [
    {"EmployeeID": "E001", "Name": "Siddu", "Gender": "Male", "Age": 21, "Department": "Sales", "JobRole": "Sales Executive",
     "HireDate": "2021-01-15", "TerminationDate":
None, "Attrition": "No", "MonthlyIncome": 75000,
     "PerformanceRating": 4, "Education": 3, "YearsAtCompany": 2, "WorkLifeBalance": 3, "Overtime": "Yes"},

    {"EmployeeID": "E002", "Name": "Priya", "Gender": "Female", "Age": 20, "Department": "IT", "JobRole": "Developer",
     "HireDate": "2019-03-10", "TerminationDate": "2023-01-20", "Attrition": "Yes", "MonthlyIncome": 70000,
     "PerformanceRating": 5, "Education": 4, "YearsAtCompany": 3, "WorkLifeBalance": 2, "Overtime": "No"},

    {"EmployeeID": "E003", "Name": "Babe", "Gender": "Female", "Age": 26, "Department": "HR", "JobRole": "HR Executive",
     "HireDate": "2022-06-05", "TerminationDate":
None, "Attrition": "No", "MonthlyIncome": 40000,
     "PerformanceRating": 3, "Education": 3, "YearsAtCompany": 1, "WorkLifeBalance": 4, "Overtime": "No"},

    {"EmployeeID": "E004", "Name": "Hema", "Gender": "Female", "Age": 20, "Department": "Finance", "JobRole": "Accountant",
     "HireDate": "2020-08-12", "TerminationDate":
None, "Attrition": "No", "MonthlyIncome": 60000,
     "PerformanceRating": 4, "Education": 4, "YearsAtCompany": 3, "WorkLifeBalance": 3, "Overtime": "Yes"},

    {"EmployeeID": "E005", "Name": "Revi", "Gender": "Male", "Age": 29, "Department": "IT", "JobRole": "Developer",
     "HireDate": "2021-11-01", "TerminationDate":
None, "Attrition": "No", "MonthlyIncome": 70000,
     "PerformanceRating": 4, "Education": 4, "YearsAtCompany": 2, "WorkLifeBalance": 3, "Overtime": "Yes"}
]

# Create DataFrame
hr_df = pd.DataFrame(data)
```

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# Convert date columns to datetime
hr_df['HireDate'] = pd.to_datetime(hr_df['HireDate'])
hr_df['TerminationDate'] = pd.to_datetime(hr_df['TerminationDate'])

# Add Year and Month columns
hr_df['HireYear'] = hr_df['HireDate'].dt.year
hr_df['HireMonth'] = hr_df['HireDate'].dt.month_name()

# Display DataFrame
print(hr_df)

```

## OUTPUT

Employee ID	Name	Gender	Age	Department	JobRole	HireDate	
0	E001	Siddu	Male	21	Sales	Sales Executive	2021-01-15
1	E002	Priya	Female	20	IT	Developer	2019-03-10
2	E003	Babe	Female	26	HR	HR Executive	2022-06-05
3	E004	Hema	Female	20	Finance	Accountant	2020-08-12
4	E005	Revi	Male	29	IT	Developer	2021-11-01
TerminationDate		Attrition	Monthly Income		Performance Rating	Education	
0	NaT	No	75000		4	3	
1	2023-01-20	Yes	70000		5	4	
2	NaT	No	40000		3	3	
3	NaT	No	60000		4	4	
4	NaT	No	70000		4	4	
YearsAtCompany		WorkLifeBalance		Overtime	HireYear	HireMonth	
0	2	3		Yes	2021	January	
1	3	2		No	2019	March	
2	1	4		No	2022	June	
3	3	3		Yes	2020	August	
4	2	3		Yes	2021	November	

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