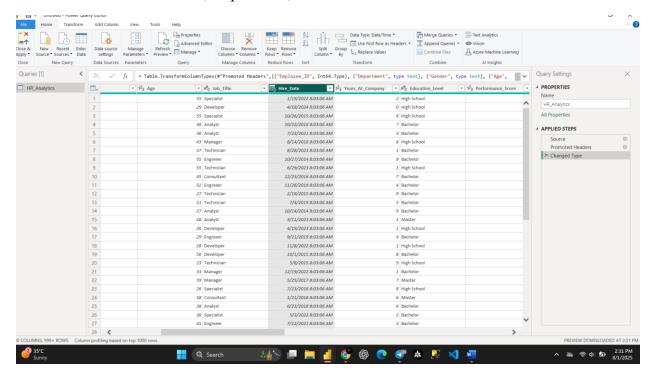
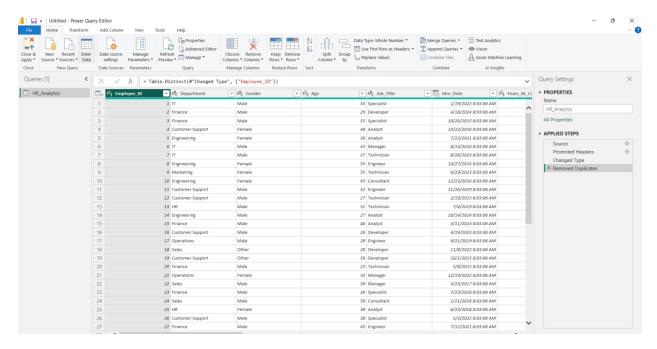
- Project Objective To design and build a comprehensive HR Analytics Dashboard using Power BI, which helps HR managers and executives monitor employee performance retention trends, department-level KPIs, and engagement levels using interactive visuals, DAX measures, Power Query transformation, and publishing to the Power BI Online Service.
- 2. Dataset Details
- Table Name: Employee_Performance
- Columns:
 - o Employment_id
 - Department
 - o Age
 - Job Title
 - Hire_Date
 - Years at company
 - o Education level
 - o Performance_Score
 - Monthly Salary
 - Work_Hours_per_Week
 - o Project Handled
 - o Overtime Hours
 - Sick Days
 - o Remote Work Frequency
 - Team Size
 - o Training Hours
 - Promotions
 - Employee_Satisfaction_Score
 - o Resigned (Yes/No)
- 3. Power Query Editor Data Preparation Steps:

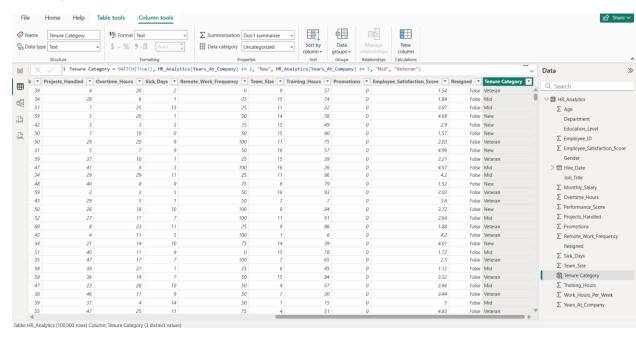
- Rename Columns to follow proper casing (e.g., Employment ID, Work Hours per Week).
- Change Data Types:
 - Dates: Hire Date
 - o Numeric: Monthly_Salary, Age, Years_at_company, etc.
 - o Text: Job Title, Department, etc.



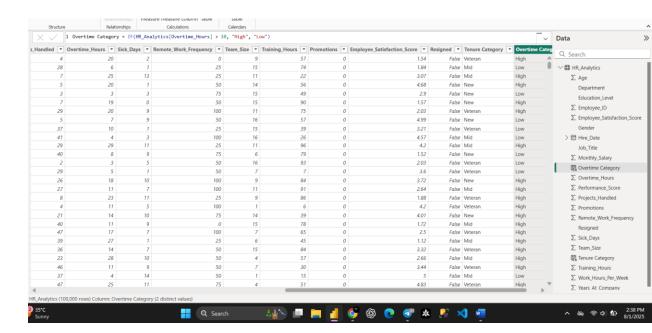
• Remove Duplicates on Employment_id.



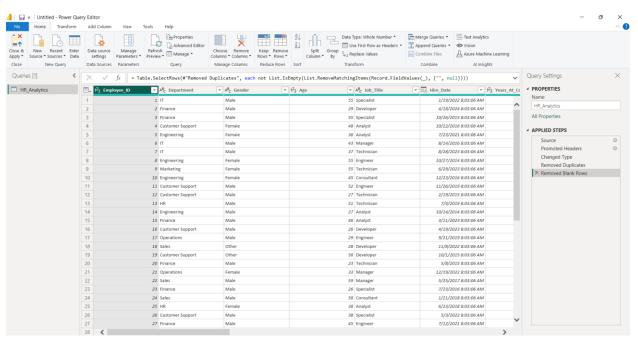
- Create Calculated Columns:
 - o Tenure Category: Based on Years_at_company (e.g., 0-2 = New, 3-5 = Mid, 6+ = Veteran)



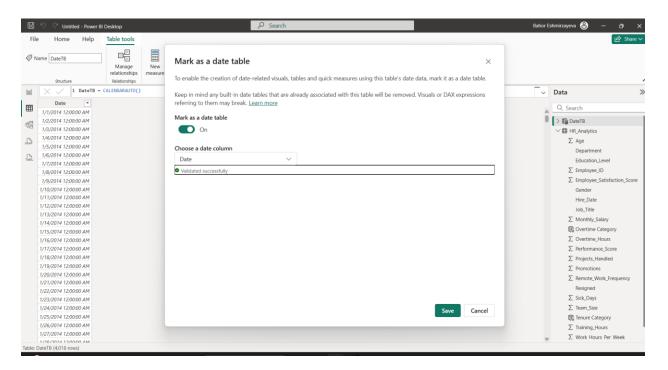
Overtime Category: IF Overtime Hours > 10 THEN "High", ELSE "Low"



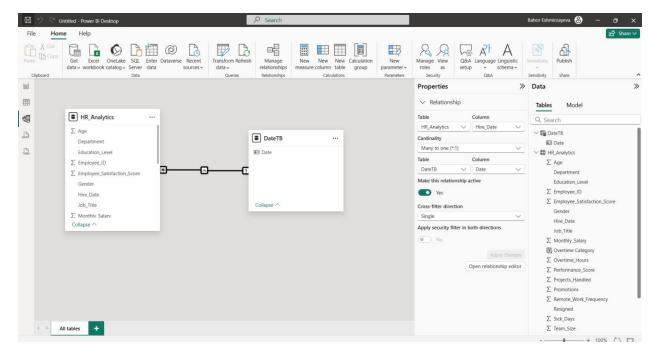
Clean Null Values: Replace or remove rows depending on importance.



o Create Date Table: Mark as Date table, join with Hire Date.

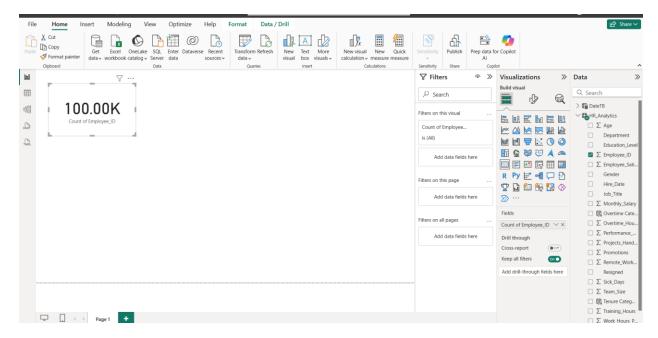


- 4. Data Model Relationships
- Connect Date Table to Hire_Date (One-to-Many)
- Create simple star schema, ensure no circular dependencies
- Optionally: Create Lookup Tables for Department, Education level, etc.

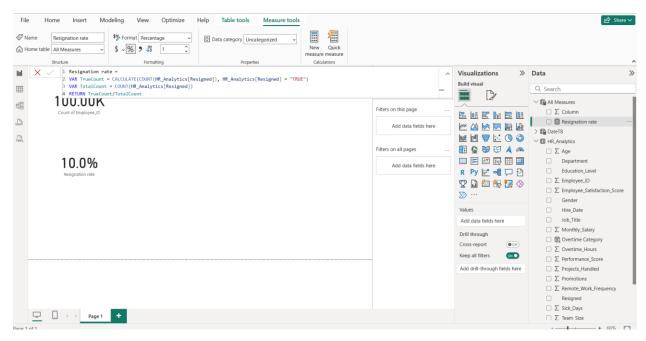


5. DAX Measures (Key KPIs)

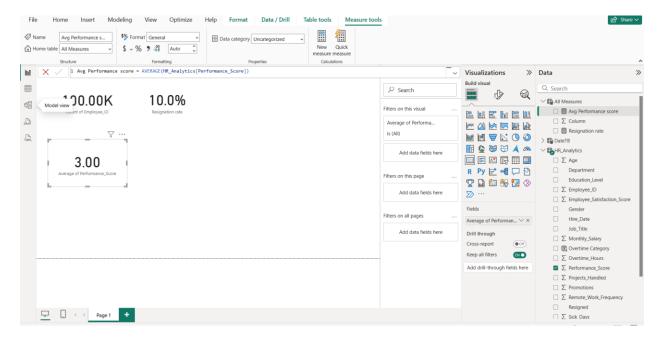
• Employee Count



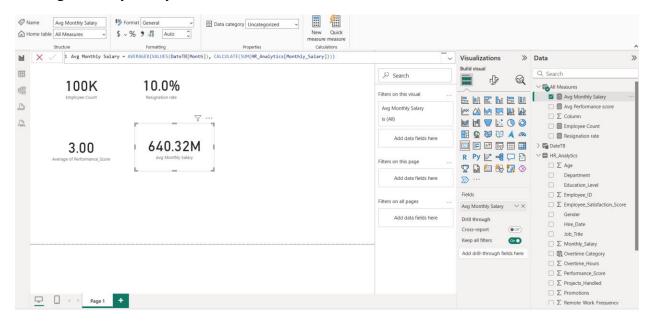
• Resignation Rate



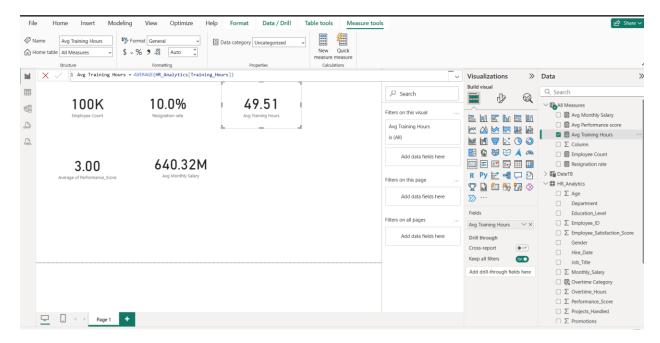
• Avg. Performance Score



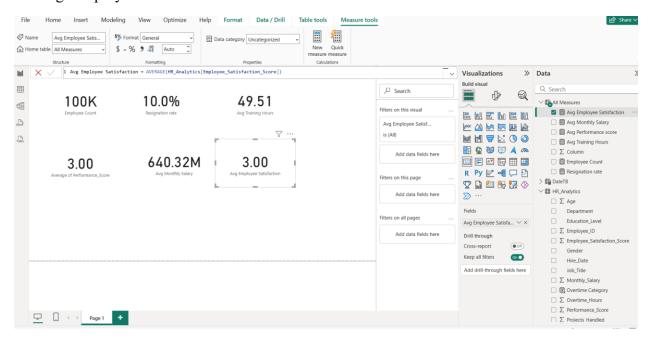
• Avg. Monthly Salary



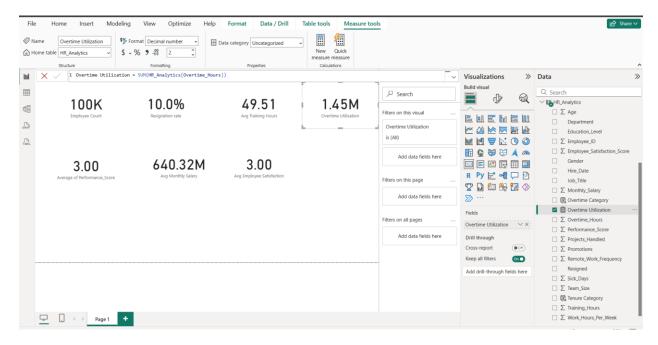
• Avg. Training Hours



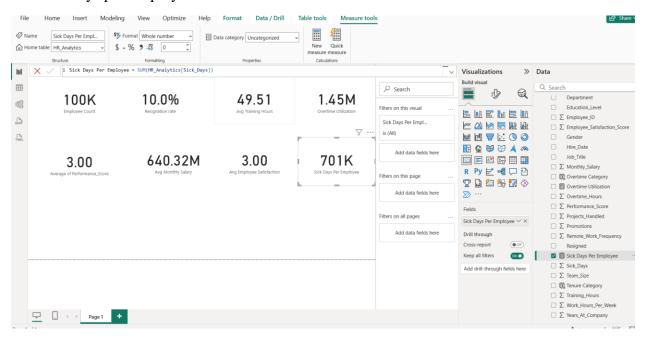
• Avg. Employee Satisfaction



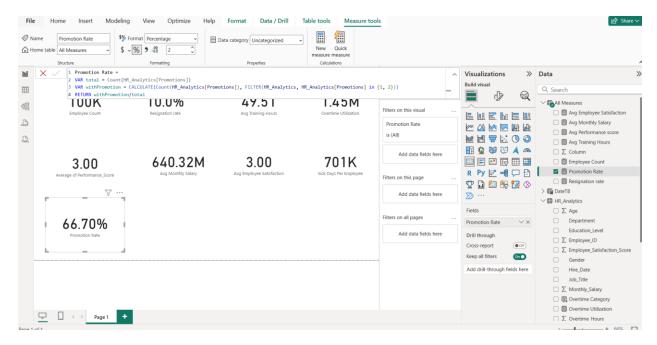
• Overtime Utilization



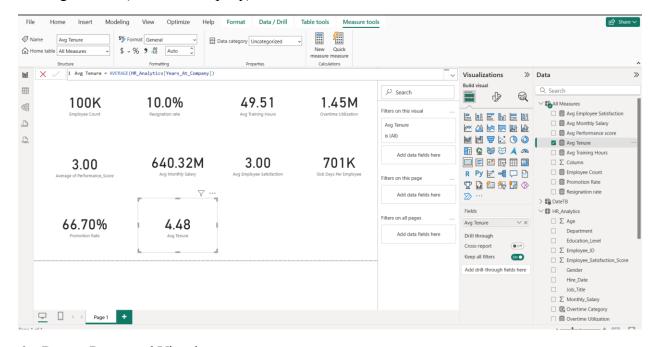
• Sick Days per Employee



• Promotion Rate



• Avg. Tenure (Years at Company)



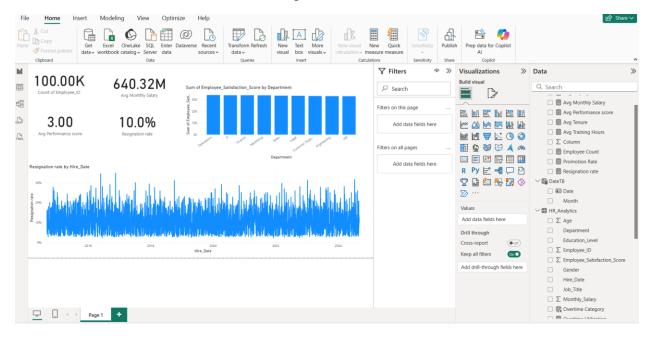
- 6. Report Pages and Visuals
- Page 1: Executive Summary

o Card: Total Employees

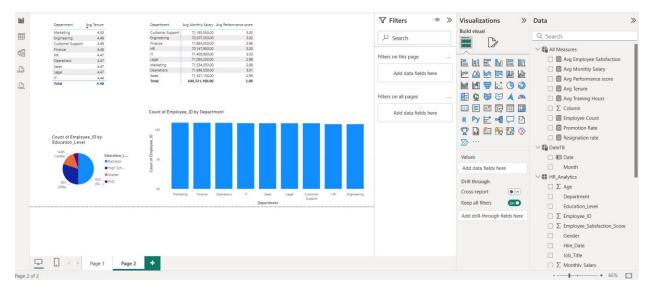
o Card: Resignation Rate

o Card: Avg. Performance Score

- o Card: Avg. Monthly Salary
- Line Chart: Resignation Rate over Time
- o Clustered Column Chart: Department-wise Satisfaction



- Page 2: Department Insights
 - Bar Chart: Employees per Department
 - o Heatmap: Avg. Salary vs Performance per Department
 - o Pie Chart: Education Level Distribution
 - o KPI: Avg. Tenure by Department



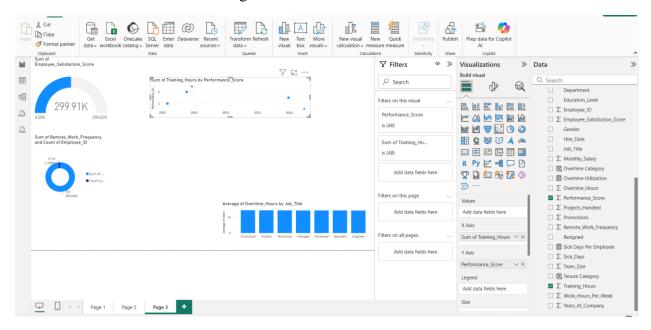
• Page 3: Employee Engagement

Gauge: Employee Satisfaction

o Donut Chart: Remote Work Frequency

Clustered Column Chart: Avg. Overtime by Job Title

Scatter Plot: Training Hours vs Performance Score



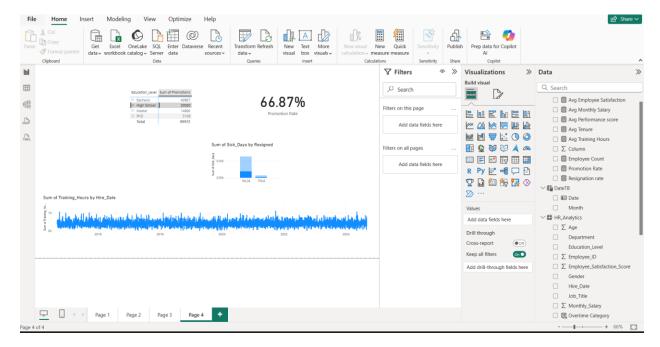
• Page 4: Retention & Promotions

Matrix: Promotions by Department & Education Level

Bar Chart: Sick Days vs Resigned Employees

Line Chart: Training Trend over Years

Card: Promotion Rate



- Page 5: Filters and Slicers
 - Slicers: Department, Job Title, Education Level, Remote Work Frequency, Tenure Category, Resigned (Yes/No)

