

1. Top Performer Identification by Department

Goal: Return the Employment_id of the top performer in each department.

Top Performer ID =

```
CALCULATE(
    FIRSTNONBLANK(Employee_Performance[Employment_id], 1),
    TOPN(
        1,
        Employee_Performance,
        Employee_Performance[Performance_Score],
        DESC
    ),
    ALLEXCEPT(Employee_Performance, Employee_Performance[Department])
)
```

- ALLEXCEPT keeps the department filter context, so it calculates the top performer **within each department**.
-

2. Year-over-Year Promotion Growth

Goal: % change in promotions vs previous year using Hire_Date.

Promotions YoY % =

VAR CurrentYearPromotions =

```
CALCULATE(
    SUM(Employee_Performance[Promotions]),
    YEAR(Employee_Performance[Hire_Date]) = YEAR(TODAY())
)
```

VAR PrevYearPromotions =

```
CALCULATE(
    SUM(Employee_Performance[Promotions]),
    YEAR(Employee_Performance[Hire_Date]) = YEAR(TODAY()) - 1
)
```

RETURN

DIVIDE(CurrentYearPromotions - PrevYearPromotions, PrevYearPromotions, 0)

- Format this as **Percentage** in Power BI.
 - To make it dynamic with visuals, replace the YEAR() filter with SAMEPERIODLASTYEAR().
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3. Average Salary of Employees Who Resigned Within 2 Years

Avg Salary Resigned <2yrs =

```
CALCULATE(  
    AVERAGE(Employee_Performance[Monthly_Salary]),  
    Employee_Performance[Resigned] = "Yes",  
    Employee_Performance[Years_at_company] <= 2  
)
```

- Returns the **average monthly salary** for employees who resigned with ≤ 2 years of tenure.
-

4. Rank Employees by Satisfaction Score Within Department

Use a **calculated column** for stable ranking:

Rank by Satisfaction =

```
RANKX(  
    FILTER(  
        Employee_Performance,  
        Employee_Performance[Department] =  
        EARLIER(Employee_Performance[Department])  
    ),  
    Employee_Performance[Employee_Satisfaction_Score],  
    ,  
    DESC,  
    DENSE  
)
```

- DENSE ensures no rank gaps if two employees have the same score.

5. Correlation Between Training Hours and Performance

Pearson correlation:

Correlation Training vs Performance =

VAR MeanX = AVERAGE(Employee_Performance[Training_Hours])

VAR MeanY = AVERAGE(Employee_Performance[Performance_Score])

VAR Numerator =

```
SUMX(
    Employee_Performance,
    (Employee_Performance[Training_Hours] - MeanX) *
    (Employee_Performance[Performance_Score] - MeanY)
)
```

VAR Denominator =

```
SQRT(
    SUMX(
        Employee_Performance,
        (Employee_Performance[Training_Hours] - MeanX)^2
    ) *
    SUMX(
        Employee_Performance,
        (Employee_Performance[Performance_Score] - MeanY)^2
    )
)
```

RETURN DIVIDE(Numerator, Denominator, 0)

- Result: **-1 to +1** correlation coefficient.

6. % of Employees Doing Remote Work Frequently

% Remote Work Frequently =

DIVIDE(

CALCULATE(

COUNTROWS(Employee_Performance),

Employee_Performance[Remote_Work_Frequency] IN {"Weekly", "Daily"}

),

COUNTROWS(Employee_Performance),

0

)

- Returns % of employees who work remotely **weekly or daily**.

7. Employees With Consistently High Performance Over Tenure

Assume tenure approximates years and we check if the **Performance_Score ≥ 4** each year:

Consistently High Performers =

CALCULATE(

COUNTROWS(Employee_Performance),

FILTER(

Employee_Performance,

Employee_Performance[Performance_Score] ≥ 4 &&

Employee_Performance[Years_at_company] ≥ 1

)

)

- If you have historical scores by year, use **ALLSELECTED** by year for strict checks.

8. Department-Wise Salary Budget Utilization

Assume you have a DepartmentBudget table with [Department] and [Budget]:

Salary Budget Utilization =

DIVIDE(

SUM(Employee_Performance[Monthly_Salary]),

RELATED(DepartmentBudget[Budget]),

0

)

- Gives % of budget used per department.

9. Attrition Risk Index

Use a **calculated column** for risk classification:

Attrition Risk =

IF(

Employee_Performance[Employee_Satisfaction_Score] < 3 &&

Employee_Performance[Overtime_Hours] > 10 &&

Employee_Performance[Sick_Days] > 5,

"High",

IF(Employee_Performance[Employee_Satisfaction_Score] < 4, "Medium", "Low")

)

- Returns "High", "Medium", or "Low" per employee.

10. Identify Overworked but Unpromoted Employees

Overworked Unpromoted Count =

CALCULATE(

COUNTROWS(Employee_Performance),

Employee_Performance[Work_Hours_per_Week] > 45,

Employee_Performance[Overtime_Hours] > 5,

Employee_Performance[Promotions] = 0

)

- Count of employees meeting all three conditions.