### 1. Top Reasons for Attrition

Barrier 6   1   1   1   1   1   1   1   1   1	3.6
Reason_for_Leaving	_ '
+=======+=	======+
Work Environment	25
+	+
Burn Out	23
+	+
Financial Problem	21
+	+
Health Issues	20
+	'
Low Pay	18
++-	+
Personal Issue	17
+	+

### 2. Monthly Attrition Trend

ORDER BY Month; +----+ | Month | Attritions | +======+======+ 2001-06 | +----+ 2001-11 | +----+ 2002-02 +----+ 2002-06 +----+ +----+ 2002-10 2002-11 2003-01 | 2003-03 +----+ 2003-05 +----+ 2003-06 +----+ 2003-11 | +----+ 2004-04 | +----+

2004-06 |

+	+
2004-07	1
2004-10	2
+	
2005-04   +	2
2005-11	1
2005-12	1
+	+

#### 3. Tenure Segmentation

```
SELECT CASE
        WHEN Tenure_at_Company < 1 THEN '0-1 Year'
        WHEN Tenure_at_Company BETWEEN 1 AND 3 THEN '1-3 Years'
        WHEN Tenure_at_Company BETWEEN 4 AND 6 THEN '4-6 Years'
        ELSE '7+ Years'
     END AS Tenure_Band,
     COUNT(*) AS Employee_Count
FROM finalized_dataset
GROUP BY Tenure_Band;
| Tenure_Band | Employee_Count |
+========+===+============
0-1 Year
         +----+
| 1-3 Years |
                   115
+----+
4-6 Years
                    68
+----+
7+ Years
                   268
+----+
```

#### 4. Absenteeism Trend by Department

```
SELECT Department, AVG(Absenteeism_Days) AS Avg_Absenteeism_Days
FROM finalized_dataset
GROUP BY Department
ORDER BY Avg_Absenteeism_Days DESC;
+-----
| Department | Avg_Absenteeism_Days |
+========+===+
Management
Sales
                16.2195
+----+
| Technical |
                15.0532
+----+
| Support |
                14.6711
+----+
| Finance |
                14
+----+
    -
| IT
                13.9589
```

#### 5. Training Attendance Rate by Department

+----+

```
SELECT Department,

ROUND(AVG(Attended_Training_Hours * 100 / NULLIF(Total_Training_Hours, 0)), 2) AS

Avg_Attendance_Percentage

FROM finalized_dataset
```

GROUP BY Department;			
++	+		
' - '	Avg_Attendance_Percentage		
+=======+			
Finance	51.96		
++	+		
IT	54.26		
++	+		
Management	51.51		
++	+		
Sales	44.91		
++	+		
Support	50.3		
++	+		
Technical	53.67		

### 6. Gender Distribution by Department

+----+

SELECT Department, Gender, COUNT(\*) AS Gender\_Count
FROM finalized\_dataset
GROUP BY Department, Gender
ORDER BY Department, Gender;

+	++	+
·		Gender_Count
Finance	Female	48
Finance	Male	39
IT	Female	40
IT	Male	33
Management	Female	38
Management		50
Sales	Female	40
Sales	Male	42
Support	Female	39
Support	Male	37
Technical	Female	47
Technical	Male	47   +

### 7. Attrition Rate by Job Role

Manager		25.29
Engineer	İ	25.23
Analyst	1	23.76
Executive		23.3

### 8. Age Bucket Distribution

```
SELECT CASE
       WHEN Age < 25 THEN '<25'
       WHEN Age BETWEEN 25 AND 34 THEN '25-34'
       WHEN Age BETWEEN 35 AND 44 THEN '35-44'
       WHEN Age BETWEEN 45 AND 54 THEN '45-54'
       ELSE '55+'
    END AS Age_Bucket,
    COUNT(*) AS Employee_Count
FROM finalized_dataset
GROUP BY Age_Bucket
ORDER BY Age_Bucket;
| Age_Bucket | Employee_Count |
+=======+
25-34
      +----+
      35-44
+----+
45-54
+----+
55+
+----+
<25
        50
+----+
```

### 9. Hiring Trend Over Time

SELECT YEAR(Joining\_Date) AS Year, COUNT(\*) AS Hires FROM finalized\_dataset GROUP BY Year ORDER BY Year; Joining\_Year | Hires | +=======+ 2000 | 2001 | 26 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 27 | 2008 |

+		-+	+
	2009		32
 	2010		28
	2011		31
	2012		21
	2013	İ	22
	2014	1	24
1	2015	İ	24
	2016	Ī	25
	2017		28
	2018	Ì	24
	2019	•	21
+		-+	+

### 10. Employees with High Absenteeism

SELECT Employee\_ID, Employe\_Name, Department, Absenteeism\_Days
FROM finalized\_dataset
WHERE Absenteeism\_Days > 15
ORDER BY Absenteeism\_Days DESC;

Employee_ID	Employe_Name	Department	Absenteeism_Days
320	Mario Stroman	Sales	30
384	Danny Nader	Sales	30
200	•	Technical	30
203	•	Technical	30
117	Tara Walsh	Finance	30
95	Hannah Lueilwitz	Technical	30
254	Carmen Robel-Sauer	Management	30
274	Ms. Ida Boehm	Technical	30
279	Todd Grady	Management	30
82	Ms. Alexandra Heathcote		30
162	Carole Trantow MD	Technical	30
71	Gerardo Satterfield	Finance	30
335	Mrs. Robyn Jerde	IT	30
63	Sheryl Jacobson	IT	30
361	Randal Koss	Management	30
167	Olive Braun	Support	30

	Mr. Winston Zieme II	Management	+   30
	Maxine Fritsch	Management	30
418	Karen Kozey	Technical	29
201	Wayne Torp	Support	29

### 11. High Performers at Risk of Burnout

 ${\tt SELECT\ Employe\_ID,\ Employe\_Name,\ Department,\ Job\_Role,\ Performance\_Rating,\ Burnout\_Risk} \\ {\tt FROM\ finalized\_dataset}$ 

WHERE Performance\_Rating >= 4 AND Burnout\_Risk = 'High'

ORDER BY Performance\_Rating DESC;

+	+	Department	Job_Role	Performance_Rating	Burnout_Risk
17	Roman Turner III	Technical	Executive	5	High
378	Dr. Jeanette Blanda	Sales	Analyst	5	High
446	Mr. Jonathan Huels	Sales	Analyst	5	High
80	Dr. Kenny Franey	Technical	Analyst	5	High
136	Cathy Raynor III	Support	Manager   	5	High
175	Mack Franey	Management	Clerk	5	High
195	Nelson Kemmer	Management	Clerk	5	High
201	Wayne Torp	Support	Engineer	5	High
388	Edwin Stokes	Sales	Executive	5	High
52	Kathryn Lockman	Technical	Analyst	5	High
284	Gustavo Balistreri IV	Technical	Executive	5	High
382	Sheila Hand	Management	Executive	5	High
364	Melvin Braun	Support	Manager	5	High
440	Randy O'Kon III	Support	Executive	4	High
439	Tami Wiza-Wunsch	IT	Clerk	4	High
390	Lee O'Hara	Support	Analyst	4	High
247	Mr. Warren Strosin	Sales	Executive	4	High
332	Kim Barrows	Finance	Manager	4	High
208	Muriel Schneider	Technical	Clerk	4	High
185	Billie Johns	IT	Manager	4	High

### 12. Performance Rating Distribution by Department

SELECT Department, Performance\_Rating, COUNT(\*) AS Count

FROM finalized\_dataset
GROUP BY Department, Performance\_Rating
ORDER BY Department, Performance\_Rating;

Department	Performance_Rating	Count
Finance	1	20
Finance	2	17
Finance	3	18
Finance	4	17
Finance	5	15
IT		23
IT	2	18
IT	3	13
IT	4	11
IT	5	8
Management	1	17
Management	2	11
Management	3	20
Management	4	18
Management	5	22
Sales	1	17
Sales		13
Sales	3	21
Sales	4	17   +
Sales	5 +	14
		•

## 13. Top 10 Most Engaged Employees

SELECT Employee\_ID, Employe\_Name, Department, Engagement\_Score FROM finalized\_dataset

ORDER BY Engagement\_Score DESC

LIMIT 10;

+	+		·	++
		Employe_Name	Department	Engagement_Score
		Jim Dicki PhD	Technical	1
	398	Gerald Glover	Management	1
	160	Dr. Brent Feil	Support	0.99
+ 	129	Jacquelyn McKenzie	IT	0.99

409	Byron Konopelski	Support	0.98
194		Sales	0.98
352		Sales	0.98
146		Sales	0.98
142		Finance	0.97
338	Mrs. Dawn Bogisich-Ernser	Management	0.97

### 14. Training Attendance vs Performance

SELECT Department,

GROUP BY Department;

++	+	++
Department	Avg_Attended_Hours	Avg_Performance_Rating
+========+	+===========	+======+
Finance	23.82	2.89
IT	25.05	2.49
++	+	++
Management	24.1	3.19
+		+
Sales	21.71	2.98
+		+
Support	21.92	'
+		+
Technical	22.53	3.02
++		

### 15. Employees Who Left Within One Year of Joining

 ${\tt SELECT~Employee\_ID,~Employe\_Name,~DATEDIFF(Leaving\_Date,~Joining\_Date)~AS~Days\_Stayed~FROM~finalized\_dataset}$ 

WHERE Attrition\_Status = 'Yes' AND DATEDIFF(Leaving\_Date, Joining\_Date) < 365
ORDER BY Days\_Stayed;</pre>

		-+
104	+=====================================	-151
76	Floyd Boehm	4
405	Clay Fisher	25
328	Mr. Noah Treutel	28
80	Dr. Kenny Franey	43
61	Eleanor Prohaska	48
42	Jeremy Kunde	64
88	Geraldine Schneider	68
	Dr. Kenneth Hegmann	72

<b>.</b>			
	Cathy Schuppe		77
243	Carlos Franecki		86
432	Garry Kuvalis		87
121	Randolph Hammes		87
379	Nicholas Wisozk		98
472	Leona Mertz	1	105
130	Nettie Schuppe	1	117
484	Loren Metz		140
301	Rudy Heaney	İ	144
209	Dr. Claude Marquardt	İ	161
	Kenneth Kemmer	   	162