Section Section Sec

(https://databricks.com/)

%sql

select * from emp_attrition

Table

| | Age | Attrition | BusinessTravel | DailyRate | Department | DistanceFromHome | Education |
|---|-----|-----------|-------------------|-----------|------------------------|------------------|-----------|
| 1 | 41 | Yes | Travel_Rarely | 1102 | Sales | 1 | 2 |
| 2 | 49 | No | Travel_Frequently | 279 | Research & Development | 8 | 1 |
| 3 | 37 | Yes | Travel_Rarely | 1373 | Research & Development | 2 | 2 |
| 4 | 33 | No | Travel_Frequently | 1392 | Research & Development | 3 | 4 |
| 5 | 27 | No | Travel_Rarely | 591 | Research & Development | 2 | 1 |
| 6 | 32 | No | Travel_Frequently | 1005 | Research & Development | 2 | 2 |
| 7 | 50 | No | Traval Paraly | 132/ | Research & Development | ą | 2 |

1,470 rows

Total Employee Count

%sql

select sum(EmployeeCount) from emp_attrition

Table

| Tubic | | | |
|-------|---------|--------------|--|
| | cum/Emp | lavea Cause) | |
| | Sum(Emp | loyeeCount) | |
| | 4.470 | | |
| 1 | 14/0 | | |
| | 1110 | | |

1 row

FIND OUR ATTRITION DIVISION

%sql

SELECT SUM(EmployeeCount) FROM emp_attrition GROUP BY Attrition

Table

2 rows

AGE Analysis -- lets find out which particular age attrition is high (18-24,25-31,32-38,39-45,46-52,52+)

%sql

SELECT SUM(EmployeeCount),

case when age BETWEEN 20 and 25 then '20-25' when age BETWEEN 26 and 32 then '26-32' when age BETWEEN 33 and 40 then '33-40' else '40+' end age_group

FROM emp_attrition where Attrition = 'Yes' group by 2

TableVisualization 1

| | sum(EmployeeCount) | age_group _ |
|---|--------------------|-------------|
| 1 | 34 | 20-25 |
| 2 | 56 | 33-40 |
| 3 | 85 | 26-32 |
| 4 | 62 | 40+ |

4 rows

most of the people are leaving the org between 26-32

FIND OUT Attrition by Department

select count(EmployeeCount), department from emp_attrition where Attrition = 'Yes' group by Department;

TableVisualization 1

| | count(EmployeeCount) | department |
|---|----------------------|------------------------|
| 1 | 92 | Sales |
| 2 | 133 | Research & Development |
| 3 | 12 | Human Resources |

3 rows

Attrition by education (1-below college, 2-college, 3-bachelor, 4-masters,5-doctor)

select count(EmployeeCount),
case when Education = 1 then 'below college' when Education=2 then 'college' when Education=3 then 'bachelor' when
Education=4 then 'master' else 'doctor' end ed_group
from emp_attrition where Attrition = 'Yes' group by Education

TableVisualization 1

| | count(EmployeeCount) | ed_group |
|---|----------------------|---------------|
| 1 | 31 | below college |
| 2 | 99 | bachelor |
| 3 | 5 | doctor |
| 4 | 58 | master |
| 5 | 44 | college |

5 rows

Attrition by Environment Satisfaction (1-low, 2-medium, 3-high,4-higly satisfied)

select count(EmployeeCount),
EnvironmentSatisfaction
from emp_attrition where Attrition = 'Yes' group by EnvironmentSatisfaction

TableVisualization 1

| | count(EmployeeCount) | EnvironmentSatisfaction |
|---|----------------------|-------------------------|
| 1 | 72 | 1 |
| 2 | 62 | 3 |
| 3 | 60 | 4 |
| 4 | 43 | 2 |

4 rows

Attrition by business travel

select count(EmployeeCount), BusinessTravel from emp_attrition where Attrition = 'Yes' group by 2

TableVisualization 1

| 1 69 Travel_Frequently |
|------------------------|
| . 03 |
| 2 12 Non-Travel |
| 3 156 Travel_Rarely |

3 rows

Insights we got as of now:

1.employee age between 26-32 leaving organization more. 2.research and devlopment department left the organization. 3.41.8% people having bachelors degree left org. 4.72 employee not satisfied with environment location left org. 5.156 employee travelling rarely left org.