

(https://databricks.com)

-- EMPLOYEE ATTRITION DATASET - PROJECT

select * from employee_attrition;

	Age 📥	Attrition _	BusinessTravel	DailyRate 📤	Department	DistanceFromHome _	Education 📤	E
1	41	Yes	Travel_Rarely	1102	Sales	1	2	Li
2	49	No	Travel_Frequently	279	Research & Development	8	1	Li
3	37	Yes	Travel_Rarely	1373	Research & Development	2	2	0
4	33	No	Travel_Frequently	1392	Research & Development	3	4	Li
5	27	No	Travel_Rarely	591	Research & Development	2	1	N
6	32	No	Travel_Frequently	1005	Research & Development	2	2	Li
7	59	No	Travel Rarely	1324	Research & Development	3	3	М

EMPLOYEE COUNT

 ${\tt select\ count(*)\ as\ total_number_of_employee\ from\ employee_attrition}$

Table		
	otal_number_of_employee 🕒	
1	470	
1 row		

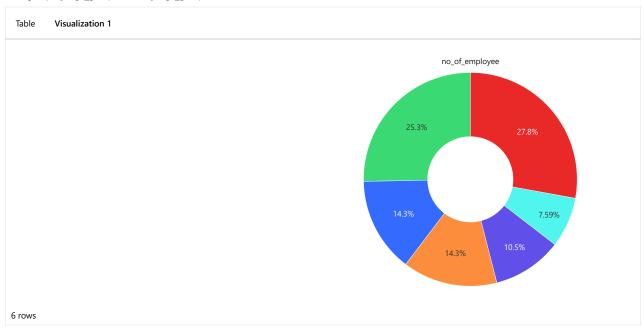
Find out Attrition Division

select count(*) as no_of_employee , Attrition from employee_attrition group by Attrition

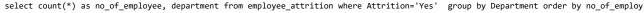


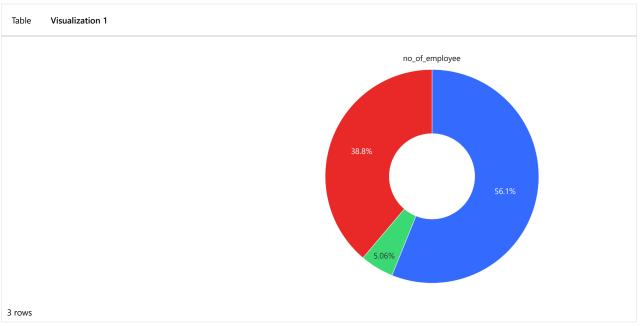
AGE Analysis -- lets find out which particular age attrition is high (18-22,23-27,2

```
select
sum(EmployeeCount) as no_of_employee ,
case
  when age between 20 and 25 then '20-25'
  when age <=30 then '26-30'
  when age <=35 then '31-35'
  when age <=40 then '36-40'
  when age <=45 then '40-45'
else '46+' end age_group
from employee_attrition where Attrition='Yes'
  group by age_group order by age_group</pre>
```



Attrition by Department

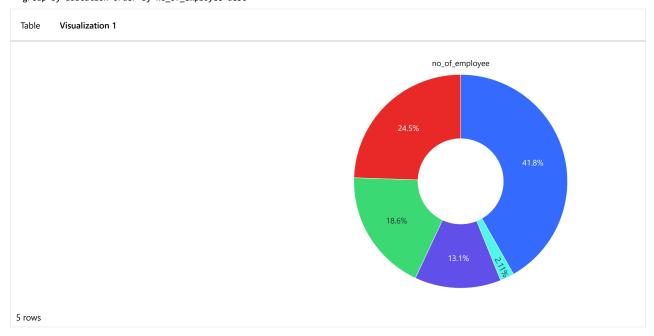




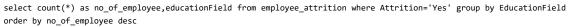
Attrition by education

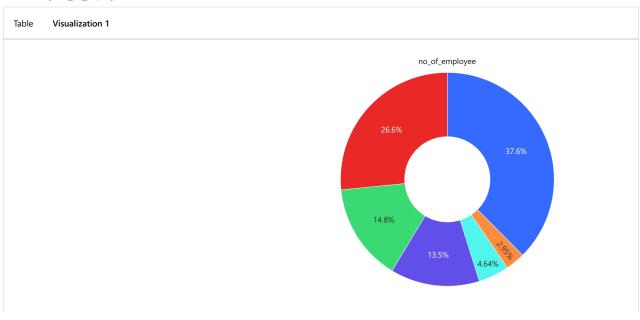
```
-- 1-below college, 2-college, 3-bachelor, 4-master, 5-doctor select count(*)as no_of_employee, case

when Education=1 then 'Below College'
when Education=2 then 'College'
when Education=3 then 'Bachelor'
when Education=4 then 'Master'
else "Doctor"
end Education
from employee_attrition where Attrition='Yes'
group by Education order by no_of_employee desc
```



Attrition by Eduction Field

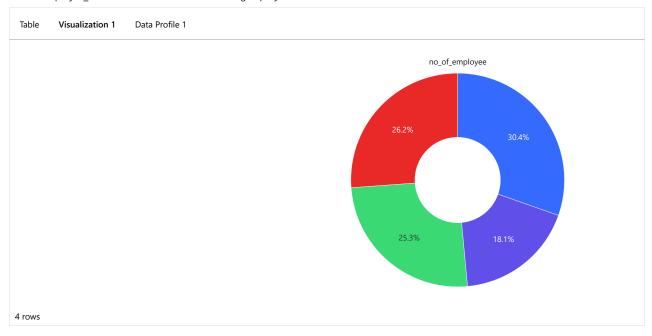




6 rows

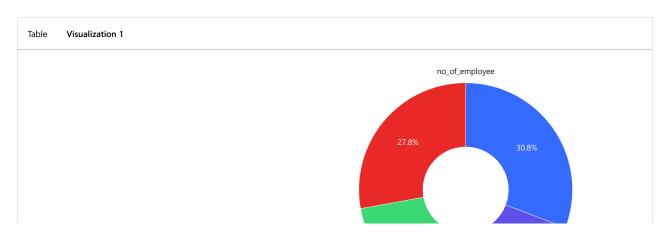
Attrition by Environment Satisfaction

```
-- 1- low, 2-Medium, 3- High, 4 Highly Satisfied
select count(*)as no_of_employee,
case
  when EnvironmentSatisfaction =1 then 'Low'
  when EnvironmentSatisfaction =2 then 'Medium'
  when EnvironmentSatisfaction =3 then 'High'
  else 'Highly Satisfied'
end EnvironmentSatisfaction
from employee_attrition where Attrition='Yes' group by EnvironmentSatisfaction
```



JobSatisfaction

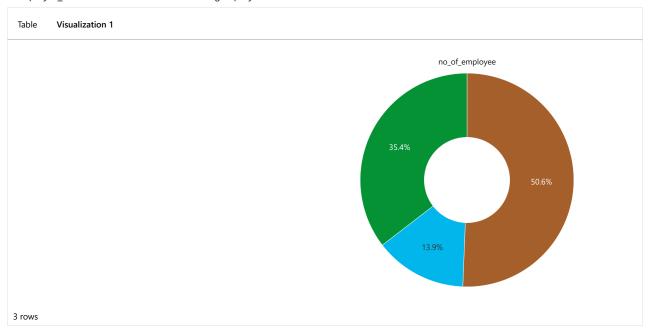
```
select count(*) as no_of_employee,
case
when JobSatisfaction =1 then 'Highly Satisfied'
when JobSatisfaction =2 then 'High'
when JobSatisfaction =3 then 'Medium'
else 'Low'
end JobSatisfaction
from employee_attrition where Attrition='Yes'
group by JobSatisfaction order by no_of_employee desc
```





MaritalStatus

 ${\tt select~count(*)~as~no_of_employee~,~MaritalStatus~from~employee_attrition~where~Attrition='Yes'~group~by~MaritalStatus}$



```
-- Insight we got as of now
-- 27.8% people below to age group from 20-25 are leaving
-- Research & Development people are leaving
-- Life Sciences people are leaving
-- 41% from Batchlor Degree are leaving
-- people having low EnvironmentSatisfaction are leaving
-- 31.2% people having low JobSatisfaction are leaving
--50.6% single people are leaving
create table output_data(
 age_group varchar(50),
 department varchar(50),
 educationField varchar(50),
 Education_degree varchar(50),
 environmentSatisfaction varchar(50),
 jobSatisfaction varchar(50),
 MaritalStatus varchar(50)
)
```

OK

insert into output_data (age_group,department,educationField,Education_degree,environmentSatisfaction,jobSatisfaction,MaritalStatus) v
'Low','31.2%','50.6%')

```
Table

| num_affected_rows | | num_inserted_rows | |
```

