--UNIFIED MENTOR INTERNSHIP

--Attrition analysis project

--SQL query to analyze attrition happening on various parameters

```
--For viewing all data
select *from [Attrition data]


--Updating column attrition
update [Attrition data]
set  Attrition = replace(Attrition,1,'yes')


--employee count and attrition
SELECT
   Attrition,ROUND(CAST((CAST(p AS DECIMAL(10,1)) * 100.0 / total) AS DECIMAL(10, 2)), 2) AS
percentage_of_total
FROM (
   SELECT
      Attrition,
      COUNT(EmployeeID) AS p,
      (SELECT COUNT(EmployeeID) FROM [Attrition data]) AS total
   FROM
      [Attrition data]
   GROUP BY
      Attrition
) AS subquery
```

```
--Business travel attrition

select BusinessTravel,Attrition, p,total,ROUND(CAST((CAST(p AS DECIMAL(10,1)) * 100.0 / total) AS DECIMAL(10, 2)), 2) AS percentage_of_total

from (

select BusinessTravel,Attrition, count(EmployeeID) as "p" , sum(count(EmployeeID)) over(partition by BusinessTravel) as total

from [Attrition data]

group by BusinessTravel, Attrition ) a


--Department Attrition

select Department,Attrition, p,total,ROUND(CAST((CAST(p AS DECIMAL(10,1)) * 100.0 / total) AS DECIMAL(10, 2)), 2) AS percentage_of_total

from (

select Department,Attrition, count(EmployeeID) as "p" , sum(count(EmployeeID)) over(partition by Department) as total

from [Attrition data]

group by Department, Attrition ) a


-- EducationField attrition

select EducationField,Attrition, p,total,ROUND(CAST((CAST(p AS DECIMAL(10,1)) * 100.0 / total) AS DECIMAL(10, 2)), 2) AS percentage_of_total

from (

select EducationField,Attrition, count(EmployeeID) as "p" , sum(count(EmployeeID)) over(partition by EducationField) as total

from [Attrition data]

group by EducationField, Attrition ) a
```

```
-- Gender attrition

select Gender,Attrition, p,total,ROUND(CAST((CAST(p AS DECIMAL(10,1)) * 100.0 / total) AS DECIMAL(10, 2)), 2) AS percentage_of_total

from (

select Gender,Attrition, count(EmployeeID) as "p" , sum(count(EmployeeID)) over(partition by Gender) as total

from [Attrition data]

group by Gender, Attrition )a


--JobLevel attrition

select JobLevel,Attrition, p,total,ROUND(CAST((CAST(p AS DECIMAL(10,1)) * 100.0 / total) AS DECIMAL(10, 2)), 2) AS percentage_of_total

from (

select JobLevel,Attrition, count(EmployeeID) as "p" , sum(count(EmployeeID)) over(partition by JobLevel) as total

from [Attrition data]

group by JobLevel, Attrition )a


--JobInvolvement attrition

select JobInvolvement,Attrition, p,total,ROUND(CAST((CAST(p AS DECIMAL(10,1)) * 100.0 / total) AS DECIMAL(10, 2)), 2) AS percentage_of_total

from (

select JobInvolvement,Attrition, count(EmployeeID) as "p" , sum(count(EmployeeID)) over(partition by JobInvolvement) as total

from [Attrition data]

group by JobInvolvement, Attrition )a
```

```
--JobRole attrition

select JobRole,Attrition, p,total,ROUND(CAST((CAST(p AS DECIMAL(10,1)) * 100.0 / total) AS DECIMAL(10, 2)), 2) AS percentage_of_total

from (

select JobRole,Attrition, count(EmployeeID) as "p" , sum(count(EmployeeID)) over(partition by JobRole) as total

from [Attrition data]

group by JobRole, Attrition )a


--JobSatisfaction attrition

select JobSatisfaction,Attrition, p,total,ROUND(CAST((CAST(p AS DECIMAL(10,1)) * 100.0 / total) AS DECIMAL(10, 2)), 2) AS percentage_of_total

from (

select JobSatisfaction,Attrition, count(EmployeeID) as "p" , sum(count(EmployeeID)) over(partition by JobSatisfaction) as total

from [Attrition data]

group by JobSatisfaction, Attrition )a


--NumCompaniesWorked attrition

select NumCompaniesWorked,Attrition, p,total,ROUND(CAST((CAST(p AS DECIMAL(10,1)) * 100.0 / total) AS DECIMAL(10, 2)), 2) AS percentage_of_total

from (

select NumCompaniesWorked,Attrition, count(EmployeeID) as "p" , sum(count(EmployeeID)) over(partition by NumCompaniesWorked) as total

from [Attrition data]

group by NumCompaniesWorked, Attrition )a
```

```
--PerformanceRating attrition

select PerformanceRating,Attrition, p,total,ROUND(CAST((CAST(p AS DECIMAL(10,1)) * 100.0 / total) AS DECIMAL(10, 2)), 2) AS percentage_of_total

from (

select PerformanceRating,Attrition, count(EmployeeID) as "p" , sum(count(EmployeeID)) over(partition by PerformanceRating) as total

from [Attrition data]

group by PerformanceRating, Attrition )a


--TrainingTimesLastYear attrition

select TrainingTimesLastYear,Attrition, p,total,ROUND(CAST((CAST(p AS DECIMAL(10,1)) * 100.0 / total) AS DECIMAL(10, 2)), 2) AS percentage_of_total

from (

select TrainingTimesLastYear,Attrition, count(EmployeeID) as "p" , sum(count(EmployeeID)) over(partition by TrainingTimesLastYear) as total

from [Attrition data]

group by TrainingTimesLastYear, Attrition )a


--WorkLifeBalance attrition

select WorkLifeBalance,Attrition, p,total,ROUND(CAST((CAST(p AS DECIMAL(10,1)) * 100.0 / total) AS DECIMAL(10, 2)), 2) AS percentage_of_total

from (

select WorkLifeBalance,Attrition, count(EmployeeID) as "p" , sum(count(EmployeeID)) over(partition by WorkLifeBalance) as total

from [Attrition data]

group by WorkLifeBalance, Attrition )a
```