

```
use Employee
select * from Employee_Performance
```

```
/*
```

About Dataset: Uncover the factors that lead to employee attrition and explore important questions such as 'show me a breakdown of distance from home by job role and attrition' or 'compare average monthly income by education and attrition'. This is a fictional data set created by IBM data scientists .

Education

- 1 'Below College'
- 2 'College'
- 3 'Bachelor'
- 4 'Master'
- 5 'Doctor'

EmpEnvironmentSatisfaction

- 1 'Low'
- 2 'Medium'
- 3 'High'
- 4 'Very High'

EmpJobInvolvement

- 1 'Low'
- 2 'Medium'
- 3 'High'
- 4 'Very High'

EmpJobSatisfaction

- 1 'Low'
- 2 'Medium'
- 3 'High'
- 4 'Very High'

PerformanceRating

- 1 'Low'
- 2 'Good'
- 3 'Excellent'
- 4 'Outstanding'

RelationshipSatisfaction

- 1 'Low'
- 2 'Medium'
- 3 'High'
- 4 'Very High'

WorkLifeBalance

- 1 'Bad'
- 2 'Good'

```
3 'Better'
4 'Best'
*/
```

```
-- Q1. Find Avrage age of the employee?
select avg(Age) Avg_age from Employee_Performance
-- Avg_age = 36year
```

```
-- Q2. Dipartment vise number of employee ?
select EmpDepartment,COUNT(EmpDepartment) no_of_employee from Employee_Performance
group by EmpDepartment order by no_of_employee desc
/* After see the result :
```

EmpDeparment	No_of_employee
Sales	373
Development	361
Research & Development	343
Human Resources	54
Finance	49
Data Science	20

```
*/
```

```
-- Q3. Total no_of_employee count for MaritalStatus ?
select MaritalStatus,count(MaritalStatus) no_of_emp from Employee_Performance
group by MaritalStatus order by no_of_emp desc
/* After run this query i see:
```

MaritalStatus	no_of_emp
Married	548
Single	384
Divorced	268

```
*/
```

```
-- Q4. Find Total no of employee has Education Background is Marketing?
```

```
select EducationBackground, count(EducationBackground) background
from Employee_Performance where EducationBackground='Marketing'
group by EducationBackground
-- Total 137 employee having Marketing Background
```

```
-- Q5. Fetch The employee who has more then 10 yr of total experience?
select EmpNumber, TotalWorkExperienceInYears from Employee_Performance
where TotalWorkExperienceInYears>10
-- Total 456 employee having 10+ yr of total work exeperience
```

```
-- Q6. Find the no_of_employee has spend more then 10yr in this compney?
select EmpNumber, ExperienceYearsAtThisCompany as Exp_yr from Employee_Performance
where ExperienceYearsAtThisCompany>10 order by Exp_yr desc
-- Total 206 employee spend more then 10 yr in this compney.
```

```
-- Q7. Select total employee who has more then 12yr of exp in sales department?
select EmpNumber, EmpDepartment, TotalWorkExperienceInYears as yr_of_exp from Employee\_Performance
where EmpDepartment='Sales' and TotalWorkExperienceInYears>12 order by yr_of_exp desc
-- Total 117 employee in this list
```

```
-- Q8. Select total employee who done business travel frequently and enviroment
--      satisfaction is medium(2)?
select EmpNumber, BusinessTravelFrequency, EmpEnvironmentSatisfaction from Employee\_Performance
```

```
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where EmpEnvironmentSatisfaction =2 and BusinessTravelFrequency='Travel_Frequently' ↗
```

```
-- Total 40 employee in this criteria
```

```
-- Q9. Find the avg age of employee who has education level is Bachelor(3) and job
--      involvement is very high(4)?
```

```
with cte as
```

```
(select EmpEducationLevel,EmpJobInvolvement,age from Employee_Performance
)
```

```
select avg(age) from cte
```

```
-- After see the result we find the avg_age = 36yr
```

```
-- Q10. Find the no_of_employee by marital status who has job satisfaction is
--      very high(4)?
```

```
select MaritalStatus, count(MaritalStatus)as no_of_employee from
Employee_Performance
```

```
where EmpJobSatisfaction = 4 group by MaritalStatus order by no_of_employee desc
```

```
/* After see the result we find:
```

Marital Status	no_of_employee
Married	169
Single	129
Divorced	80

```
*/
```

```
-- Q11. Which type of job role has highest Excellent performance rating?
```

```
select top 1 EmpJobRole,count(PerformanceRating) rating from Employee_Performance
where PerformanceRating=4 group by EmpJobRole order by rating desc
```

```
-- The Answer is Developer job role has 31 excellent performance rating.
```

```
-- Q12. Find the total employee has age <28 and work life balance is better(3) or
```

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best(4) ?

select EmpNumber, Age, EmpWorkLifeBalance from Employee_Performance

where Age < 28 and EmpWorkLifeBalance >= 3

-- Total 123 employee in this criteria