



**TASK-01**

**HR DATA ANALYSIS**

**NAME: Lingamaneni Devansh**

**E-MAIL:** [**devansh.lingamaneni@gmail.com**](mailto:devansh.lingamaneni@gmail.com)

**Linked-in: kedin.com/in/devansh-lingamaneni-26272324a/**

* Retrieve the total number of employees in the dataset.

SELECT COUNT(\*) as total\_employees FROM [General\_Data]



* List all unique job roles in the dataset.

SELECT DISTINCT(JobRole) as uniquejobs from [General\_Data]



* Find the average age of employees.

SELECT AVG(Age) as avg\_age from [General\_Data]



* Retrieve the names and ages of employees who have worked at the company for more than 5 years.

SELECT "Emp\_Name" AS Name ,Age from [General\_Data]

WHERE YearsAtCompany>5

 

* Get a count of employees grouped by their department.

SELECT DISTINCT(Department) FROM [General\_Data]

SELECT Department,COUNT(EmployeeID) AS total\_employees

FROM [General\_Data]

GROUP BY Department



* List employees who have 'High' Job Satisfaction.

SELECT EmployeeID,"Emp\_Name" FROM [General\_Data]

WHERE JobSatisfaction = (SELECT MAX(JobSatisfaction) FROM [General\_Data])



* Find the highest Monthly Income in the dataset.

SELECT MAX(MonthlyIncome) AS max\_income FROM [General\_Data]



* List employees who have 'Travel\_Rarely' as their BusinessTravel type.

SELECT EmployeeID,"Emp\_Name" as Name FROM [General\_data]

WHERE BusinessTravel = 'Travel\_Rarely'





* Retrieve the distinct MaritalStatus categories in the dataset.

SELECT DISTINCT(MaritalStatus) FROM [General\_data]



* Get a list of employees with more than 2 years of work experience but less than 4 years in their current role..

SELECT EmployeeID,"Emp\_Name" as Name FROM [General\_data]

WHERE YearsAtCompany<4 AND NumCompaniesWorked>2





* List employees who have changed their job roles within the company (JobLevel and JobRole differ from their previous job).

SELECT \* FROM [General\_data] e1

JOIN [General\_data] e2 ON e1.EmployeeID = e2.EmployeeID

WHERE e1.JobLevel != e2.JobLevel OR e1.JobRole != e2.jobRole



* Find the average distance from home for employees in each department.

SELECT Department,AVG(DistanceFromHome) as avg\_Distance

FROM [General\_data]

GROUP BY Department



* Retrieve the top 5 employees with the highest MonthlyIncome.

SELECT TOP 5 EmployeeID,"Emp\_Name",MonthlyIncome as Name FROM

[General\_data]ORDER BY MonthlyIncome DESC



* Calculate the percentage of employees who have had a promotion in the last year.

SELECT COUNT(\*) AS total\_employees,

SUM(CASE WHEN YearsSinceLastPromotion <= 1 AND YearsSinceLastPromotion IS NOT NULL

THEN 1 ELSE 0 END) AS promoted\_last\_yr,

(SUM(CASE WHEN YearsSinceLastPromotion <= 1 AND YearsSinceLastPromotion IS NOT NULL

THEN 1 ELSE 0 END) \* 100.0) / COUNT(\*) AS percentage\_promoted\_last\_yr

FROM [General\_data];



* List the employees with the highest and lowest EnvironmentSatisfaction

SELECT EmployeeID, Emp\_Name as Name, EnvironmentSatisfaction

FROM [General\_data]

WHERE EnvironmentSatisfaction = (SELECT MAX(EnvironmentSatisfaction) FROM [General\_data])

OR EnvironmentSatisfaction = (SELECT MIN(EnvironmentSatisfaction) FROM [General\_data])



* Find the employees who have the same JobRole and MaritalStatus.

SELECT a.EmployeeID, a.Emp\_Name as Name, a.JobRole, a.MaritalStatus

FROM [General\_data] a

WHERE EXISTS (

SELECT 1

FROM [General\_data] b

WHERE a.EmployeeID != b.EmployeeID

AND a.MaritalStatus = b.MaritalStatus

AND a.JobRole = b.JobRole

)

ORDER BY a.JobRole, a.MaritalStatus, a.EmployeeID;



* List the employees with the highest TotalWorkingYears who also have a PerformanceRating of 4.

SELECT TOP 3 EmployeeID,"Emp\_Name" as Name ,TotalWorkingYears,PerformanceRating

FROM [General\_data]

WHERE PerformanceRating = 4

ORDER BY TotalWorkingYears DESC



* Calculate the average Age and JobSatisfaction for each BusinessTravel type.

SELECT AVG(Age) as Average\_Age,AVG(JobSatisfaction) as

Average\_Jobsatisfaction

FROM [General\_data] GROUP BY BusinessTravel



* Retrieve the most common EducationField among employees.

SELECT TOP 1 EducationField,COUNT(EducationField) as total\_count from

[General\_data] GROUP BY EducationField

ORDER BY total\_count DESC



* List the employees who have worked for the company the longest but haven't had a promotion.

SELECT EmployeeID,"Emp\_Name" as

Name,YearsAtCompany,YearsSinceLastPromotion

FROM [General\_data] WHERE

YearsAtCompany = (SELECT MAX(YearsAtCompany) FROM [General\_data]) AND

YearsSinceLastPromotion = 0

