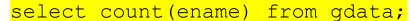
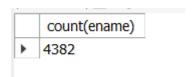
ganeshkv1395@gmail.com

Hr Data Analysis Solutions

1. Retrieve the total number of employees in the dataset.

Solution:

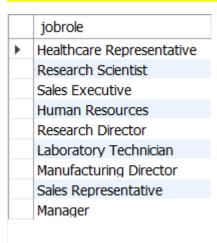




2. List all unique job roles in the dataset.

Solution:

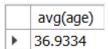
select distinct jobrole from gdata;



3. Find the average age of employees.

Solution:

select avg(age) from gdata;



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

Solution:

select ename, age from gdata

where YearsAtCompany > 5;

	ename	age
•	RENEE MARQUARDT	38
	HARVEY ELWIN	32
	LEON WHITE	46
	NATHAN HARDY	31
	SUSAN BUCHBINDER	25
	KIRSTEN BARASH	45
	DENNIS SUTTER	36
	JOHN BROWN	55
	KATHRYN BALLOU	47
	GRAD GREEN	35
	DARCY KELLER	38
	SAMUEL ROMERO	26
	ALEXANDER CHEN	50
	THOMAS HARVEY	29
	MARTIN BELTRAN	55
	ROBERT TAI	37
	FLIGENE GALEANO	36

5. Get a count of employees grouped by their department.

Solution:

SELECT count(ename), Department from gdata

group by department;

	count(ename)	Department
•	1330	Sales
	2865	Research & Development
	187	Human Resources

6. List employees who have 'High' Job Satisfaction.

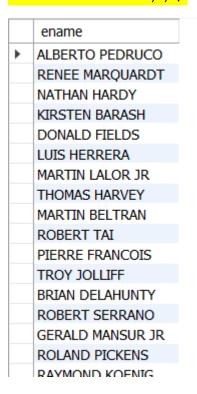
Solution:

SELECT ename from gdata

where EmployeeId IN

(SELECT EmployeeId from esdata

where JobSatisfaction In (select Max(jobsatisfaction)
from esdata));



7. Find the highest Monthly Income in the dataset.

Solution:

SELECT max(MonthlyIncome) from gdata;

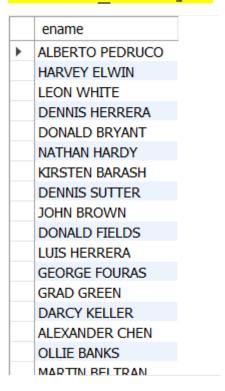
max(MonthlyIncome)

▶ 199990

8. List employees who have 'Travel_Rarely' as their BusinessTravel type.

Solution:

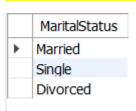
SELECT ename from gdata where BusinessTravel =
'Travel Rarely';



9. Retrieve the distinct MaritalStatus categories in the dataset.

Solution:

SELECT DISTINCT MaritalStatus from gdata;



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

Solution:

SELECT ename from gdata

where TotalWorkingYears > 2 and
YearsSinceLastPromotion < 4;</pre>

	I
	ename
•	LAWRENCE LEE
	DWAYNE CURRY
	HARVEY ELWIN
	DENNIS HERRERA
	DONALD BRYANT
	SUSAN BUCHBINDER
	DONALD FIELDS
	LUIS HERRERA
	GEORGE FOURAS
	MARTIN LALOR JR
	SAMUEL ROMERO
	ALEXANDER CHEN
	OLLIE BANKS
	THOMAS HARVEY
	MARTIN BELTRAN
	LORI BORGHI
	CHRISTOPHER HA7EN

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

Solution:

```
select
```

emp1.employeeid,

emp1.ename as previousemployeename,

emp1.joblevel as previousjoblevel,

emp1.jobrole as previousjobrole,

emp2.ename as currentemployeename,

emp2.joblevel as currentjoblevel,

```
emp2.jobrole as currentjobrole

from

    gdata emp1

join

    gdata emp2 on emp1.employeeid = emp2.employeeid

where

    emp1.employeeid = emp2.employeeid

and (emp1.joblevel <> emp2.joblevel or
```

employeeid previousemployeename previousjoblevel previousjobrole currentemployeename currentjoblevel currentjobrole

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

Solution:

SELECT AVG(DistanceFromHome), department from gdata group by department;

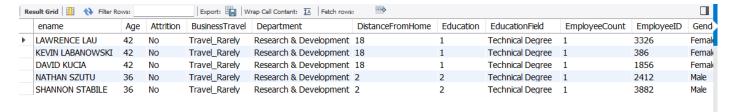
	AVG(DistanceFromHome)	department
•	9.2414	Sales
	9.2387	Research & Development
	8.2888	Human Resources

emp1.jobrole <> emp2.jobrole)

13. Retrieve the top 5 employees with the highest MonthlyIncome.

Solution:

SELECT * from gdata order by MonthlyIncome DESC LIMIT 5;



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

Solution:

```
SELECT (count(ename) *100/(SELECT count(ename) from
gdata)) from gdata where gdata.YearsSinceLastPromotion
= 1;
```

(count(ename)*100/(SELECT count(ename) from gdata))

24.2355

15. List the employees with the highest and lowest EnvironmentSatisfaction.

Solution:

SELECT ename from gdata

INNER JOIN

esdata ON gdata.EmployeeID = esdata.EmployeeID

where esdata.EnvironmentSatisfaction = (select

MAX(EnvironmentSatisfaction) from esdata) or

esdata.EnvironmentSatisfaction = (select

MIN (EnvironmentSatisfaction) from esdata);

	ename
\blacktriangleright	RENEE MARQUARDT
	HARVEY ELWIN
	DENNIS HERRERA
	DONALD BRYANT
	JOHN BROWN
	KATHRYN BALLOU
	DONALD FIELDS
	GEORGE FOURAS
	MARTIN LALOR JR
	DARCY KELLER
	ALEXANDER CHEN
	LORI BORGHI
	ROBERT TAI
	CHRISTOPHER HAZ
	DIEDDE EDANICOIC

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

Solution:

SELECT gdl.ename, gdl.JobRole, gdl.MaritalStatus from gdata gdl

INNER JOIN

gdata gd2 ON gd1.JobRole = gd2.JobRole AND
gd1.MaritalStatus = gd2.MaritalStatus AND
gd1.EmployeeID <> gd2.EmployeeID

	ename	JobRole	MaritalStatus
١	VIVIAN CURD	Healthcare Representative	Married
	KEITH BARAKA	Healthcare Representative	Married
	WILSON LO	Healthcare Representative	Married
	MARK OKUPNIK	Healthcare Representative	Married
	ROBBIN HEWITT	Healthcare Representative	Married
	PAUL DAVIES	Healthcare Representative	Married
	BRADFORD BENSON	Healthcare Representative	Married
	RUTH WANG	Healthcare Representative	Married
	JAMES SUTTER	Healthcare Representative	Married
	CARMEL DEBONO	Healthcare Representative	Married
	SENG NGUY	Healthcare Representative	Married
	RICHARD THALL-JR	Healthcare Representative	Married
	SUSAN HOU	Healthcare Representative	Married
	JUDY LIZARDO	Healthcare Representative	Married
	LTCA TAIMANI	Haalthaara Danrasantatiira	Marriad

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

Solution:

SELECT ename, MAX(TotalWorkingYears) from gdata

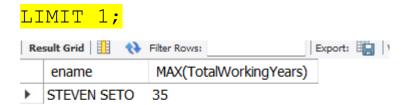
INNER JOIN

mdata ON gdata.EmployeeID = mdata.EmployeeID

where mdata.PerformanceRating = 4

group by ename

order by max(TotalWorkingYears) desc



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

Solution:

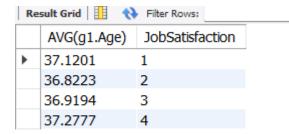
```
SELECT AVG(g1.Age), esdata.JobSatisfaction from gdata g1
```

```
INNER JOIN gdata g2 ON g1.BusinessTravel =
g2.BusinessTravel
```

INNER JOIN esdata ON gl.EmployeeID = esdata.EmployeeID

group by esdata.JobSatisfaction

order by esdata.JobSatisfaction;



19. Retrieve the most common EducationField among employees.

Solution:

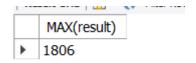
```
SELECT EducationField, MAX(result)
```

from (select count(*) as result, EducationField from
gdata group by EducationField) as counts

group by EducationField

order by max(result) DESC

LIMIT 1;



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

Solution:

