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Schemas

Query 1 student project

Limit to 1000 rows

1

/* 1) Create a database named employee,

2

then import data_science_team.csv proj_table.csv

3

and emp_record_table.csv into the employee database

4

from the given resources.*/

5

create database Employee;

6

7

/* 2) Create an ER diagram for the given employee database.*/

8

-- Was created

9

10

/* 3) Write a query to fetch

11

EMP_ID, FIRST_NAME, LAST_NAME, GENDER, and DEPARTMENT

12

from the employee record table, and

13

make a list of employees and details of their department.*/

14

create view Employees_and_details_of_their_department

15

as select emp_id,first_name, LAST_NAME, GENDER,DEPT

16

from emp_record_table;

17

18

/* 4) Write a query to fetch

Result Grid

Filter Rows:

Export:

Wrap Cell Content:

	emp_id	first_name	last_name	gender	dept	emp_rating
▶	E057	Dorothy	Wilson	F	HEALTHCARE	1
	E532	Claire	Brennan	F	AUTOMOTIVE	1
	E620	Katrina	Allen	F	RETAIL	1

Index: idx_first_name

Definition:

Type BTREE

Unique No

Visible Yes

Columns FIRST_NAME

emp_record_table 92

Read Only

Output

Action Output

#	Time	Action	Message
✓ 164	00:30:22	select Continent, country, AVG(SALARY) AS AverageSalary, AVG(SALARY) OVER (PARTITION BY CONTINENT) AS AvgSalaryByContinent FROM e...	19 row(s) returned
✓ 165	00:30:28	select Continent, country, AVG(SALARY) AS AverageSalary, AVG(SALARY) OVER (PARTITION BY CONTINENT) AS AvgSalaryByContinent FROM e...	19 row(s) returned
✗ 166	00:31:22	select Continent, Country, AVG(SALARY) AS AverageSalary, AVG(SALARY) OVER (PARTITION BY CONTINENT) AS AvgSalaryByContinent FROM e...	Error Code: 1055. Expression #4 of SELECT list is not in GROUP BY clause and contains nonaggregated column 'employee.emp_rec...
✓ 167	00:33:15	select Continent, Country, AVG(SALARY) AS AverageSalary, (SELECT AVG(SALARY) FROM emp_record_table WHERE CONTINENT = e.CONTINE...	7 row(s) returned
✓ 168	00:38:14	select Continent, Country, avg(SALARY) as AverageSalaryByCountry, (select avg(salary) from emp_record_table where Continent = e.Continent) as Avg...	7 row(s) returned
✓ 169	01:03:24	select emp_id,first_name,last_name,gender,dept,emp_rating from emp_record_table where EMP_RATING < 2 LIMIT 0, 1000	3 row(s) returned

Query Completed

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AdministrationSchemas

Query 1studentproject

Limit to 1000 rows

22greater than four

23between two and four*/

24select emp_id,first_name,last_name,gender,dept,emp_rating from emp_record_table where EMP_RATING < 2;

25select emp_id,first_name,last_name,gender,dept,emp_rating from emp_record_table where EMP_RATING > 4;

26select emp_id,first_name,last_name,gender,dept,emp_rating from emp_record_table where EMP_RATING between 2 and 4;

27

28/* 5) Write a query to concatenate

29the FIRST_NAME and the LAST_NAME of employees in the Finance department

30from the employee table and

31then give the resultant column alias as NAME.*/

32

33select first_name,last_name,concat(first_name," ",last_name) as 'Name',Dept

34from emp_record_table where Dept = 'Finance';

35

36/* 6) Write a query to list only those employees who have someone reporting to them.

37Also, show the number of reporters (including the President).*/

38select

39e1.FIRST_NAME,

Result Grid

Filter Rows:

Exports:Wrap Cell Content:

	first_name	last_name	Name	Dept
▶	Eric	Hoffman	Eric Hoffman	FINANCE
	Emily	Grove	Emily Grove	FINANCE
	Steve	Hoffman	Steve Hoffman	FINANCE

Index: idx_first_name

Definition:

TypeBTREE

UniqueNo

VisibleYes

ColumnsFIRST_NAME

Result 93

Read Only

Output

Action Output

#	Time	Action	Message
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✓ 168	00:38:14	select Continent, Country, avg(SALARY) AS AverageSalaryByCountry, (select avg(salary) from emp_record_table where Continent = e.Continent) as Avg...	7 row(s) returned
✓ 169	01:03:24	select emp_id,first_name,last_name,gender,dept,emp_rating from emp_record_table where EMP_RATING < 2 LIMIT 0, 1000	3 row(s) returned
✓ 170	01:04:24	select first_name,last_name,concat(first_name," ",last_name) as 'Name',Dept from emp_record_table where Dept = 'Finance' LIMIT 0, 1000	3 row(s) returned

Object InfoSession

Query Completed

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Administration

Schemas

Query 1 student project*

Limit to 1000 rows

37 Also, show the number of reporters (including the President).*/

38 select

39 e1.FIRST_NAME, e1.LAST_NAME, COUNT(e2.EMP_ID) AS Number_of_Reporters

40 from emp_record_table e1

41 JOIN emp_record_table e2 ON e1.EMP_ID = e2.MANAGER_ID

42 group by e1.FIRST_NAME,e1.LAST_NAME

43 having COUNT(e2.EMP_ID) > 0;

44

45 /* 7) Write a query to list down

46 all the employees from the healthcare and finance departments

47 using union. Take data from the employee record table.*/

48

49 select * from emp_record_table where Dept = 'Healthcare'

50 union

51 select * from emp_record_table where Dept = 'finance'

52 order by dept;

53

54 /* 8) Write a query to list down employee details such as

Result Grid

Filter Rows:

Export:

Wrap Cell Content:

	first_name	last_name	Name	Dept
▶	Eric	Hoffman	Eric Hoffman	FINANCE
	Emily	Grove	Emily Grove	FINANCE
	Steve	Hoffman	Steve Hoffman	FINANCE

Index: idx_first_name

Definition:

Type BTREE

Unique No

Visible Yes

Columns FIRST_NAME

Result 93

Read Only

Output

Action Output

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✓	165 00:30:28	select Continent, country, AVG(SALARY) AS AverageSalary, AVG(SALARY) OVER (PARTITION BY CONTINENT) AS AvgSalaryByContinent FROM e...	19 row(s) returned
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✓	170 01:04:24	select first_name,last_name,concat(first_name," " ,last_name) as 'Name',Dept from emp_record_table where Dept = 'Finance' LIMIT 0, 1000	3 row(s) returned

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AdministrationSchemas

Information

Index: idx_first_name

Definition:

Type

BTREE

Unique

No

Visible

Yes

Columns

FIRST_NAME

Query 1studentproject

Limit to 1000 rows

64

65/* 9) Write a query to calculate the minimum and the maximum salary of the employees

66in each role. Take data from the employee record table.*/

67

68• Select Distinct ROLE,max(salary) Max_Salary,min(salary) Min_Salary from emp_record_table

69group by role;

70

71/* 10) Write a query to assign ranks to each employee based on their experience.

72Take data from the employee record table.*/

73• select Emp_id,first_name,last_name,exp,

74rank() over(ORDER BY exp DESC) RK

75from emp_record_table;

76

77/* 11) Write a query to create a view that displays employees in various countries

78whose salary is more than six thousand.

79Take data from the employee record table.*/

80

81• create view CUSTOM_VIEW as select eMP_ID,FIRST_NAME,LAST_NAME,SALARY,COUNTRY

82from emp_record_table

83where SALARY > 6000;

84

85• select * from CUSTOM_VIEW;

86

87/* 12) Write a nested query to find employees with experience of more than ten years. Take data from the employee record table.*/

88/*COULD HAVE BEEN DONE IN A VERY SIMPLE WAY*/

89

Result GridFilter Rows:Export:Wrap Cell Content:

	first_name	last_name	Name	Dept
▶	Eric	Hoffman	Eric Hoffman	FINANCE
	Emily	Grove	Emily Grove	FINANCE
	Steve	Hoffman	Steve Hoffman	FINANCE

Result 93 ×Read Only

Output

Action Output

#	Time	Action	Message
✓ 165	00:30:28	select Continent, country, AVG(SALARY) AS AverageSalary, AVG(SALARY) OVER (PARTITION BY CONTINENT) AS AvgSalaryByContinent FROM e...	19 row(s) returned
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Administration Schemas

Information

Index: **idx_first_name**

Definition:

Type

BTREE

Unique

No

Visible

Yes

Columns

FIRST_NAME

Query 1 student project

Limit to 1000 rows

128

RETURN jobProfile;

129

RETURN 1;

130

END*/

131

132

• select emp_id,first_name,last_name,exp,Getjobprofile(Exp) as JobProfile from data_science_team;

133

134

135

/* 15) Create an index to improve the cost and performance of the query to

136

find the employee whose FIRST_NAME is 'Eric' in the employee table

137

after checking the execution plan.*/

138

139

• Create index idx_first_name on emp_record_table (first_name);

140

• select * from emp_record_table where first_name = 'Eric';

141

142

/* 16)Write a query to calculate the bonus for all the employees,

143

based on their ratings and salaries (Use the formula: 5% of salary * employee rating).*/

144

145

• select emp_id,first_name,last_name,Gender,role,dept,exp,salary,emp_rating, CONCAT('\$ ',0.05*salary*emp_rating) as Bonus from emp_record_table;

146

147

/* 17) Write a query to calculate the average salary distribution based on the continent and country.

148

Take data from the employee record table.*/

149

150

• select Continent, Country, avg(SALARY) as AverageSalaryByCountry, (select avg(salary) from emp_record_table where Continent = e.Continent) as AvgSalaryByContinent

151

from emp_record_table e

152

group by Continent,country

153

order by Continent;

Result Grid

Filter Rows:

Export:

Wrap Cell Content:

	Continent	Country	AverageSalaryByCountry	AvgSalaryByContinent
▶	ASIA	CHINA	6500.0000	6250.0000
	ASIA	INDIA	6166.6667	6250.0000
	EUROPE	FRANCE	9000.0000	7950.0000
	EUROPE	GERMANY	7600.0000	7950.0000
	NORTH AMERICA	CANADA	7000.0000	8525.0000
	NORTH AMERICA	USA	9440.0000	8525.0000
	SOUTH AMERICA	COLOMBIA	5600.0000	5600.0000

Result 95 x

Output

Action Output

#	Time	Action	Message
✓ 171	01:07:10	select * from emp_record_table where EXP > (select EXP from emp_record_table where EXP =20)/2 LIMIT 0, 1000	8 row(s) returned
✓ 172	01:07:33	select Continent, Country, avg(SALARY) as AverageSalaryByCountry, (select avg(salary) from emp_record_table where Continent = e.Continent) as AvgSalaryByContinent	7 row(s) returned

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