

Relational Databases with MySQL Week 8 Coding Assignment

Points possible: 70

Category	Criteria	% of Grade
Functionality	Does the code work?	25
Organization	Is the code clean and organized? Proper use of white space, syntax, and consistency are utilized. Names and comments are concise and clear.	25
Creativity	Student solved the problems presented in the assignment using creativity and out of the box thinking.	25
Completeness	All requirements of the assignment are complete.	25

Instructions: Using a text editor of your choice, write the queries that accomplishes the objectives listed below. Take screenshots of the queries and results and paste them in this document where instructed below. Create a new repository on GitHub for this week's assignments and push this document to the repository. Additionally, push an .sql file with all your queries to the same repository. Add the URL for this week's repository to this document where instructed and submit this document to your instructor when complete.

Coding Steps:

Write queries to address the following business needs.

1. I want to know how many employees with each title were born after 1965-01-01.
2. I want to know the average salary per title.
3. How much money was spent on salary for the marketing department between the years 1990 and 1992?

Screenshots of Queries:

```
Week8CodingAssignment x
[Icons] | Don't Limit
1  -- Quesiton 1. I want to know how many employees with each title were born after 1965-01-01.
2
3  • SELECT title AS 'Employee Title',
4     count(e.birth_date) AS 'Number Of Employees Born After 01-01-1965 In Each Employee Title'
5     FROM titles t
6     INNER JOIN employees e
7     ON e.emp_no = t.emp_no
8     WHERE birth_date >= '1965-01-01'
9     GROUP BY title
10 ;
```

```
Week8CodingAssignment x
[Icons] | Don't Limit
13  -- Question 2 I want to know the average salary per title.
14  • SELECT title AS 'Employee Title',
15     ROUND(AVG(s.salary))AS 'Average Salary Per Title'
16     FROM Salaries s
17     INNER JOIN Titles t
18     ON s.emp_no = t.emp_no
19     GROUP BY title
20 ;
```

```
Week8CodingAssignment x
[Icons] | Don't Limit
17  INNER JOIN Titles t
18  ON s.emp_no = t.emp_no
19  GROUP BY title
20  ;
21
22
23  -- Question 3 How much money was spent on salary for the marketing department between the years 1990 and 1992?
24  • SELECT dept_name AS 'Department', sum(salary) AS 'Salary Spent From 1990 - 1992'
25     FROM departments d
26     INNER JOIN dept_emp de
27     ON d.dept_no = de.dept_no
28     INNER JOIN salaries s
29     ON s.emp_no = de.emp_no
30     WHERE s.from_date > '1990-01-01' AND s.to_date < '1993-01-01'
31     GROUP BY dept_name
32     Having dept_name = 'Marketing'
33 ;
```

Screenshots of Query Results (only include the last 20 rows):

Question 1 Results

	Employee Title	Number Of Employees Born After 01-01-1965 In Each Employee Title
▶	Senior Staff	633
	Staff	720
	Technique Leader	99
	Senior Engineer	610
	Engineer	683
	Assistant Engineer	101

Question 2 Results

	Employee Title	Average Salary Per Title
▶	Senior Engineer	60543
	Staff	69309
	Engineer	59508
	Senior Staff	70471
	Assistant Engineer	59305
	Technique Leader	59294
	Manager	66924

Question 3 Results

	Department	Salary Spent From 1990 - 1992
▶	Marketing	1095677886

URL to GitHub Repository:

<https://github.com/HaroldLujan/Week-8-Coding-Assignment.git>