

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:

Query 1.

```
1 • SELECT titles.title Titles, COUNT(titles.emp_no) Count FROM titles INNER JOIN employees ON employees.emp_no = titles.emp_no
2 WHERE employees.birth_date > '1965-01-01'
3 GROUP BY titles.title;
```

Query 2.

```
SELECT AVG(salary) Average_Salary, titles.title Title FROM salaries  
INNER JOIN titles ON titles.emp_no = salaries.emp_no  
GROUP BY titles.title;
```

Query 3. a

```
SELECT sum(salary) Salary_Sum, departments.dept_name, salaries.from_date, salaries.to_date  
FROM salaries  
INNER JOIN dept_emp ON dept_emp.emp_no = salaries.emp_no  
INNER JOIN departments ON departments.dept_no = dept_emp.dept_no  
GROUP BY dept_name  
HAVING dept_name = 'Marketing'  
AND salaries.from_date >= '1990-01-01' AND salaries.to_date <= '1992-12-31';
```

b

```
SELECT sum(salary) Salary_Sum, departments.dept_name, salaries.from_date, salaries.to_date  
FROM salaries  
INNER JOIN dept_emp ON dept_emp.emp_no = salaries.emp_no  
INNER JOIN departments ON departments.dept_no = dept_emp.dept_no  
GROUP BY dept_name  
HAVING dept_name = 'Marketing';
```

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

Query 1 Results:

	Titles	Count
▶	Senior Staff	612
	Staff	703
	Technique Leader	95
	Senior Engineer	589
	Engineer	657
	Assistant Engineer	97

Query 2 Results:

	Average_Salary	Title
▶	60543.2191	Senior Engineer
	69308.7124	Staff
	59508.0751	Engineer
	70470.5013	Senior Staff
	59304.9863	Assistant Engineer
	59294.3742	Technique Leader
	66924.2706	Manager

Query 3 Results A

Query 3 Results B

	Salary_Sum	dept_name	from_date	to_date
▶	13725425266	Marketing	1993-08-03	1994-08-03

It looks like my data for the requested dates was deleted.

URL to GitHub Repository:

<https://github.com/juliecurran3/Week-8.git>