

# 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:

A1)

```
2 • SELECT count(title) AS "Number of Employees", title FROM titles INNER JOIN employees
3 ON employees.emp_no = titles.emp_no WHERE birth_date > '1965-01-01' GROUP BY title;
```

A2)

```
4 • SELECT title AS "Title", AVG(s.salary) AS "Average Salary" FROM titles t
5 INNER JOIN salaries s ON s.emp_no = t.emp_no GROUP BY title;
```

A3)

```
6 • SELECT d.dept_name AS "Department", SUM(s.salary) AS "Total Salary '90 - '92" FROM departments d
7 INNER JOIN dept_emp de ON de.dept_no = d.dept_no INNER JOIN salaries s ON s.emp_no = de.emp_no
8 WHERE d.dept_name = "Marketing" AND de.from_date >= "1990-01-01" AND de.to_date <= "1992-12-31"
9 GROUP BY d.dept_name;
```

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

A1)

	Number of Employees	title
▶	612	Senior Staff
	703	Staff
	95	Technique Leader
	589	Senior Engineer
	657	Engineer
	97	Assistant Engineer

A2)

	Title	Average Salary
▶	Senior Engineer	60543.2191
	Staff	69309.1023
	Engineer	59508.0397
	Senior Staff	70470.8353
	Assistant Engineer	59304.9863
	Technique Leader	59294.3742
	Manager	66924.2706

A3)

	Department	Total Salary '90 - '92
▶	Marketing	54989098

**URL to GitHub Repository:**

<https://github.com/brycraw/Week-8>