Relational Databases with MySQL Week 2 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, with your Java project code, to the repository. Lastly, in the Learning Management System, click the "Add Submission" button and paste the URL to your GitHub repository.

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.

```
SELECT count(title) as "Number of Employees", title FROM titles t
INNER JOIN employees e ON e.emp_no = t.emp_no
WHERE birth_date > "1965-01-01"
GROUP BY title;
```

	Number of Employees	title
1	612	Senior Staff
2	703	Staff
3	95	Technique Leader
4	589	Senior Engineer
5	657	Engineer
6	97	Assistant Engineer

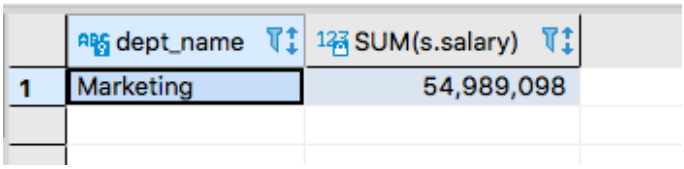
2. I want to know the average salary per title.

```
SELECT t.title, AVG(s.salary) as "Average Salary" from salaries s
INNER JOIN titles t ON s.emp_no = t.emp_no
GROUP BY title
```

	title	Average Salary
1	Senior Engineer	60,543.2191
2	Staff	69,308.7124
3	Engineer	59,508.0751
4	Senior Staff	70,470.5013
5	Assistant Engineer	59,304.9863
6	Technique Leader	59,294.3742
7	Manager	66,924.2706

3. How much money was spent on salary for the marketing department between the years 1990 and 1992?

```
SELECT d.dept_name, SUM(s.salary)
FROM departments d
INNER JOIN dept_emp de on de.dept_no = d.dept_no
INNER JOIN salaries s on s.emp_no = de.emp_no
WHERE d.dept_name = "Marketing"
AND YEAR(de.from_date) >= 1990 AND YEAR(de.to_date) <= 1992
```



	dept_name	SUM(s.salary)
1	Marketing	54,989,098

URL to GitHub Repository:

https://github.com/Christinalytle/week8Homework.git