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 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:

```sql
-- How much money was spent on salary for the marketing department between the years 1990 and 1992?

 SELECT SUM(s.salary) AS 'Total Spent',
 de.dept_name AS 'Marketing' FROM salaries s
INNER JOIN dept_emp d USING (emp_no)
 INNER JOIN departments de USING (dept_no)
 WHERE de.dept_name LIKE '%MARKETING%'
 AND year(s.from_date) <= 1992 AND year(s.to_date) >= 1990
 GROUP BY de.dept_name
```

```sql
-- I want to know the average salary per title.

 SELECT avg(s.salary) AS 'Average Salary', t.title AS 'Title' FROM salaries s
 INNER JOIN titles t USING (emp_no)
 GROUP BY Title;
```

```sql
-- I want to know how many employees with each title were born after 1965-01-01.

 SELECT t.title AS 'Title', COUNT(e.emp_no) AS '# of Employees' FROM titles t
 INNER JOIN employees e USING (emp_no)
 WHERE year(e.birth_date) < 1965-01-01
 GROUP BY title;
```

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

Title	# of Employees
Senior Engineer	82219
Engineer	96712
Senior Staff	77764
Staff	90065
Assistant Engineer	12655
Technique Leader	12869
Manager	20

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

Total Spent	Marketing
2183459752	Marketing

URL to GitHub Repository: https://github.com/Rowan-Bear/MySQL_Week2.git