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:

1.

```
mysql> select t.title as "Title", count(*) as "Number of Employees" from employees e
   -> inner join titles t on t.emp_no = e.emp_no
   -> where e.birth_date >= '1965-01-01'
   -> group by t.title;
...
```

```
mysql> select t.title as "Title", avg(s.salary) as "Average Salary" from titles t
    -> inner join salaries s
    -> on t.emp_no = s.emp_no
    -> group by t.title;
```

3.

```
mysql> select sum(s.salary), d.dept_name from salaries s
-> inner join dept_emp de on de.emp_no = s.emp_no
-> inner join departments d on d.dept_no = de.dept_no
-> where de.from_date >= '1990-01-01' and de.to_date <= '1992-12-31' and d.dept_name = 'Marketing';
```

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

1.

```
mysql> select t.title as "Title", count(*) as "Number of Employees" from employees e
   -> inner join titles t on t.emp no = e.emp no
   -> where e.birth_date >= '1965-01-01'
    -> group by t.title;
                    | Number of Employees |
 Senior Staff
 Staff
                                      699
 Engineer
                                      664
 Senior Engineer
                                      594
 Assistant Engineer
                                       98
 Technique Leader
                                       95
 rows in set (0.08 sec)
```

```
mysql> select t.title as "Title", avg(s.salary) as "Average Salary" from titles t
   -> inner join salaries s
   -> on t.emp_no = s.emp_no
   -> group by t.title;
 Title
         | Average Salary |
 Staff
                      69299.3833
 Senior Staff
                       70464.9051
                       59285.3060
 Technique Leader
 Engineer
                       59495.1347
 Senior Engineer
                       60529.6958
 Assistant Engineer
                        59300.5218
                        66924.2706
 Manager
7 rows in set (5.11 sec)
```

3.

URL to GitHub Repository:

https://github.com/CoconutMacaron/MySQLWeek8.git