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. 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.

```
mysql> SELECT COUNT(title) FROM employees INNER JOIN titles ON titles.emp_no = employees.emp_no
    -> WHERE employees.birth_date > 19650101;
+--------------+
| COUNT(title) |
+--------------+
|         2753 |
+--------------+
1 row in set (0.11 sec)
```

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

```
mysql> SELECT titles.title, AVG(salary) FROM titles INNER JOIN salaries ON titles.emp_no = salaries.emp_no GROUP BY title;
+--------------------+-------------+
| title              | AVG(salary) |
+--------------------+-------------+
| Senior Engineer    |  60543.2191 |
| Staff              |  69308.7124 |
| Engineer           |  59508.0751 |
| Senior Staff       |  70470.5013 |
| Assistant Engineer |  59304.9863 |
| Technique Leader   |  59294.3742 |
| Manager            |  66924.2706 |
+--------------------+-------------+
7 rows in set (6.04 sec)

mysql>
```

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

```
mysql> SELECT dept_name, AVG(salary) FROM departments INNER JOIN dept_emp ON departments.dept_no = dept_emp.dep
t_no INNER JOIN salaries ON dept_emp.emp_no = salaries.emp_no WHERE (dept_emp.from_date >= 1990 AND dept_emp.to
_date >= 1992) GROUP BY dept_name;
+--------------------+-------------+
| dept_name          | AVG(salary) |
+--------------------+-------------+
| Development        |  59478.9499 |
| Sales              |  80667.5370 |
| Production         |  59605.4825 |
| Human Resources    |  55574.8794 |
| Research           |  59665.1817 |
| Quality Management |  57251.2719 |
| Customer Service   |  58770.3665 |
| Marketing          |  71913.2000 |
| Finance            |  70489.3649 |
+--------------------+-------------+
9 rows in set, 2 warnings (4.31 sec)

mysql>
```

Screenshots of Queries:

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

URL to GitHub Repository:

https://github.com/daisymdev/week_8_assignment