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.

```
select count(employees.emp_no) as 'Employees born before 1965', titles.title
from employees
inner join titles
on titles.emp_no =employees.emp_no
where employees.birth_date > '1965-01-01'
group by titles.title;
```

2.

```
select titles.title as 'Title', avg(salaries.salary) as 'Average Salary'
from titles
inner join salaries
on salaries.emp_no =titles.emp_no
group by titles.title;
```

3.

```
select d.dept_name as 'Department'
, sum(s.salary) as 'Total 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 s.from_date > '1989-12-31'
and s.to_date < '1993-01-01'
and d.dept_no = 'd001';
```

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

1.

	Employees born before 1965	title
1	612	Senior Staff
2	703	Staff
3	95	Technique Leader
4	589	Senior Engineer
5	657	Engineer
6	97	Assistant Engineer

2.

	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.

	Department	Total Salary
1	Marketing	1,096,824,732

URL to GitHub Repository:

https://github.com/PierceIsaacson/week-8-mySQLweek2