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?

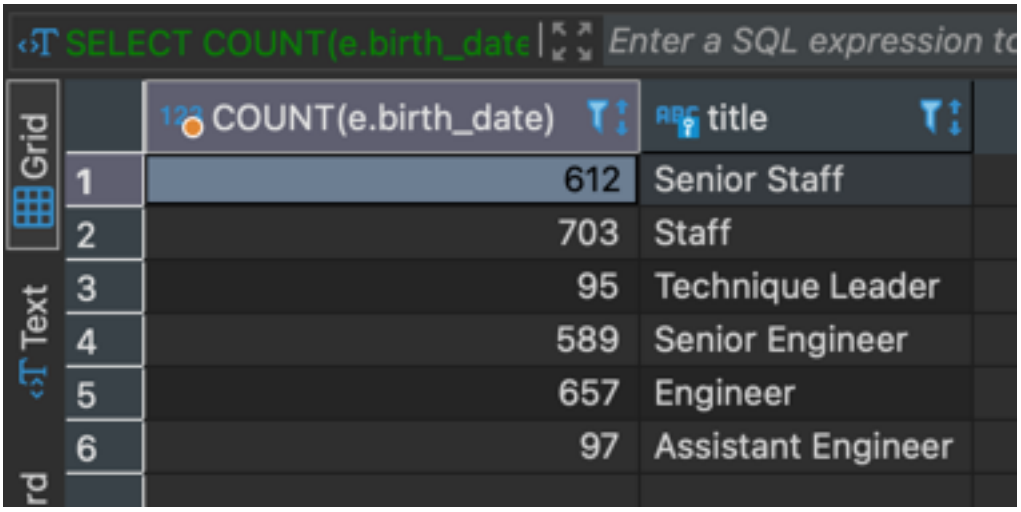
Screenshots of Queries:

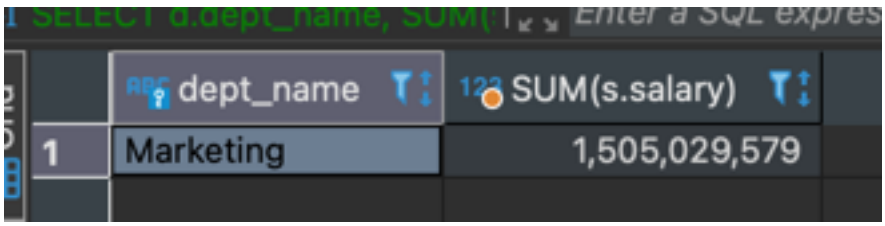
```sql
-- 1. I want to know how many employees with each title were born after 1965-01-01

SELECT count(e.birth_date), title FROM titles t
    INNER JOIN employees e ON e.emp_no = t.emp_no
    WHERE e.birth_date > '1965-01-01'
    GROUP BY t.title;

SELECT COUNT(e.birth_date), t.title 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;
```

```sql
/*2. I want to know the average salary per title*/

SELECT AVG(s.salary), t.title FROM salaries s
    INNER JOIN titles t ON s.emp_no = t.emp_no
    GROUP BY t.title;
```

```sql
/*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 d.dept_no = de.dept_no
    INNER JOIN employees e ON e.emp_no = de.emp_no
    INNER JOIN salaries s ON e.emp_no = s.emp_no
    WHERE d.dept_name = 'Marketing' AND s.to_date
    BETWEEN '1990-01-01' AND '1992-12-31'
    GROUP BY d.dept_name;
```

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





URL to GitHub Repository: https://github.com/thisLinda/SQLWeek8Assignment