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. Lastly, in the Learning Management System, click the "Add Submission" button and paste the URL to your GitHub repository.

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?

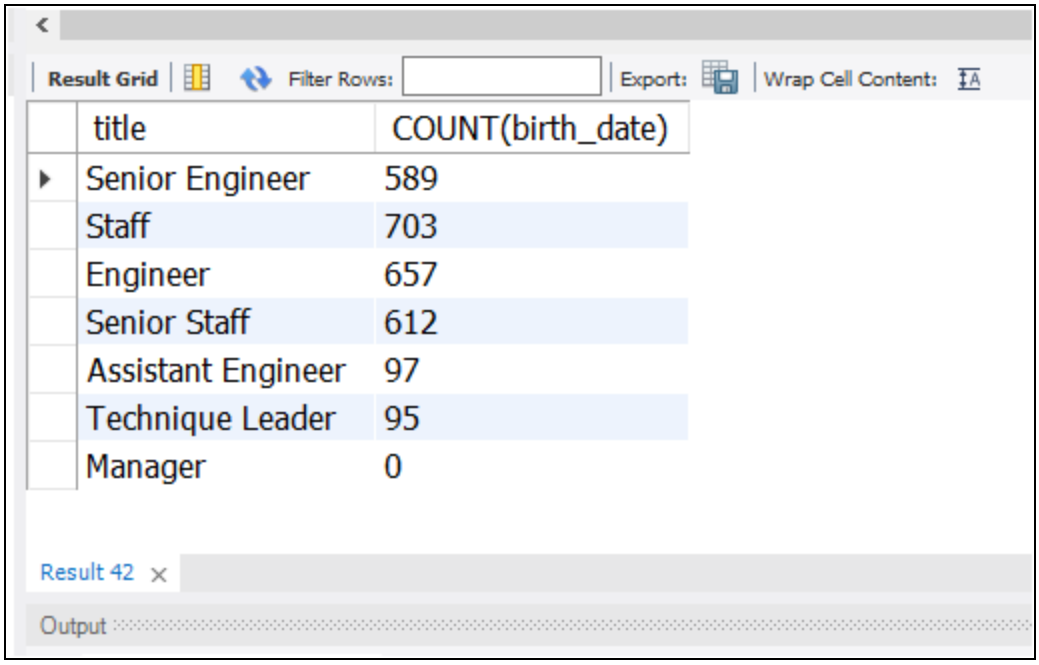
Screenshots of Queries:

```sql
SELECT t.title, COUNT(birth_date)
FROM employees e
RIGHT JOIN titles t ON e.emp_no = t.emp_no
AND e.birth_date > '1965-01-01'
GROUP BY t.title;
```

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

```sql
SELECT d.dept_name, sum(salary) AS salary_sum
FROM dept_emp de
INNER JOIN departments d ON d.dept_no = de.dept_no
INNER JOIN salaries s ON s.emp_no =  de.emp_no
WHERE d.dept_name = 'Marketing' AND
s.from_date >= '1990-01-01' AND s.to_date <= '1992-12-31'
GROUP BY d.dept_name;
```

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

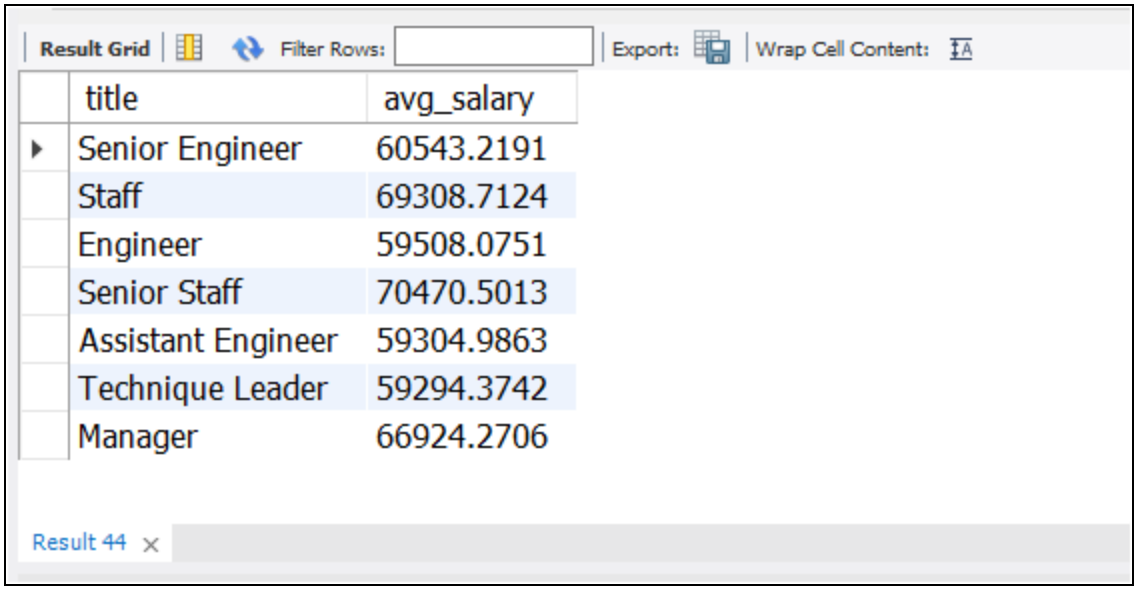


Result Grid | Filter Rows: | Export: | Wrap Cell Content:

title	COUNT(birth_date)
Senior Engineer	589
Staff	703
Engineer	657
Senior Staff	612
Assistant Engineer	97
Technique Leader	95
Manager	0

Result 42 ×

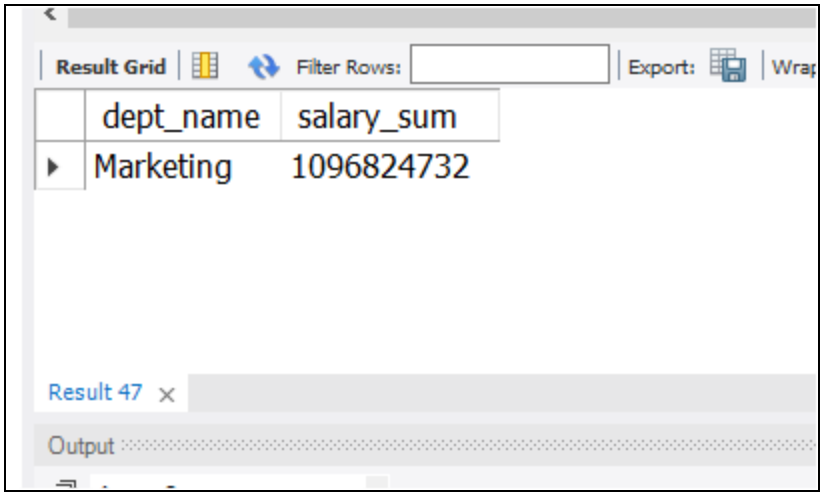
Output



Result Grid | Filter Rows: | Export: | Wrap Cell Content:

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

Result 44 ×



URL to GitHub Repository:

https://github.com/lcuevas6/week-two-SQL-assigment.git