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.

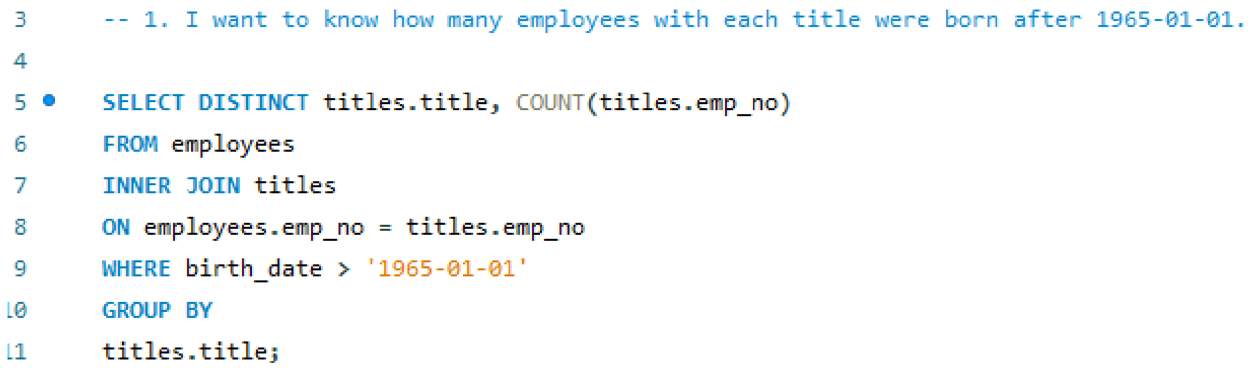
1. I want to know how many employees with each title were born after 1965-01-01.

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:

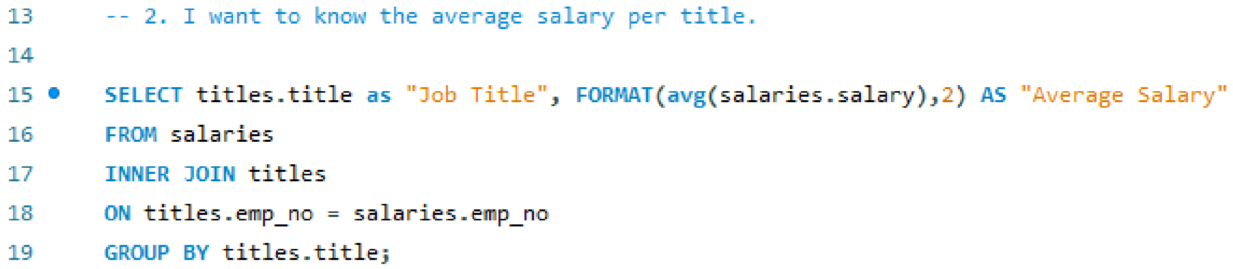
1.



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

SELECT DISTINCT titles.title, COUNT(titles.emp_no)
FROM employees
INNER JOIN titles
ON employees.emp_no = titles.emp_no
WHERE birth_date > '1965-01-01'
GROUP BY
titles.title;
```

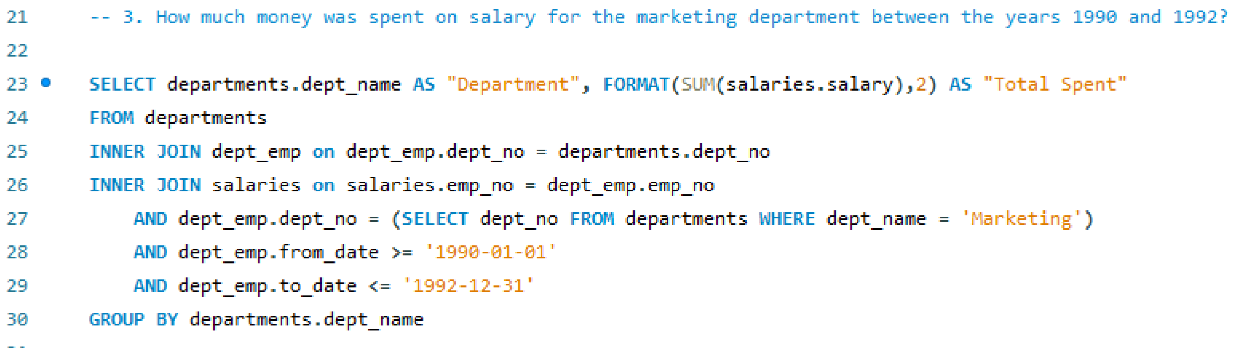
2.



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

SELECT titles.title as "Job Title", FORMAT(avg(salaries.salary),2) AS "Average Salary"
FROM salaries
INNER JOIN titles
ON titles.emp_no = salaries.emp_no
GROUP BY titles.title;
```

3.

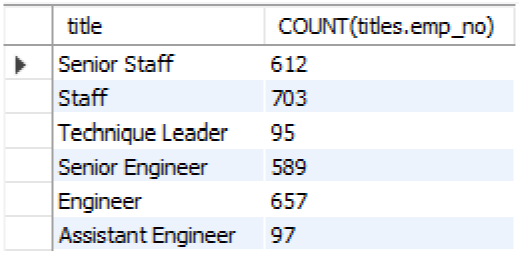


```sql
-- 3. How much money was spent on salary for the marketing department between the years 1990 and 1992?

SELECT departments.dept_name AS "Department", FORMAT(SUM(salaries.salary),2) AS "Total Spent"
FROM departments
INNER JOIN dept_emp on dept_emp.dept_no = departments.dept_no
INNER JOIN salaries on salaries.emp_no = dept_emp.emp_no
    AND dept_emp.dept_no = (SELECT dept_no FROM departments WHERE dept_name = 'Marketing')
    AND dept_emp.from_date >= '1990-01-01'
    AND dept_emp.to_date <= '1992-12-31'
GROUP BY departments.dept_name
```

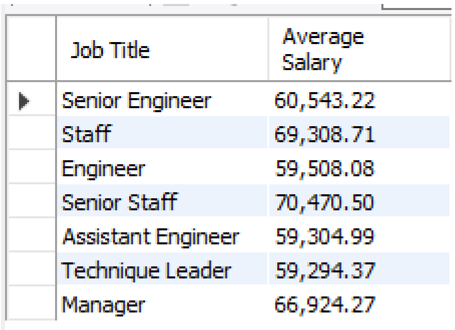
Screenshots of Query Results (only include the last 20 rows):

1.



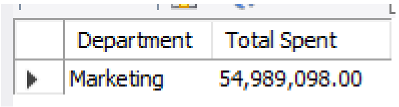
title	COUNT(titles.emp_no)
Senior Staff	612
Staff	703
Technique Leader	95
Senior Engineer	589
Engineer	657
Assistant Engineer	97

2.



	Job Title	Average Salary
▶	Senior Engineer	60,543.22
	Staff	69,308.71
	Engineer	59,508.08
	Senior Staff	70,470.50
	Assistant Engineer	59,304.99
	Technique Leader	59,294.37
	Manager	66,924.27

3.



	Department	Total Spent
▶	Marketing	54,989,098.00

URL to GitHub Repository:

https://github.com/KT-Trailblazer/W8-MySQLQueries