

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 accomplish 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:

```
-- How many employees with each title were born after 1965-01-01?

SELECT COUNT(*) AS 'Num Titles', title
FROM employees e
INNER JOIN titles t ON t.emp_no = e.emp_no
WHERE birth_date > '1965-01-01'
GROUP BY t.title
```

```
-- What is the average salary per title?

SELECT format(avg(s.salary),2) AS 'Average Salary', title AS Title
FROM salaries s
INNER JOIN titles t USING (emp_no)
GROUP BY t.title
```

```
-- How much money was spent on salary for the marketing department from 1990 to 1992?

SELECT dept_name AS Department, sum(s.salary) AS 'Total Salary'
FROM salaries s
INNER JOIN dept_emp de ON s.emp_no = de.emp_no
INNER JOIN departments d ON d.dept_no = de.dept_no
WHERE d.dept_name = 'Marketing'
AND YEAR(s.from_date) >= 1990 AND YEAR(s.to_date) <= 1992
```

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

123 Num Titles	title
612	Senior Staff
703	Staff
95	Technique Leader
589	Senior Engineer
657	Engineer
97	Assistant Engineer

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

ABC Department 🔼🔼	123 Total Salary 🔼🔼
Marketing	1,096,824,732

URL to GitHub Repository:

<https://github.com/DukesGuy/MySQL>