

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:

Employee title born after 65

```
mysql> select employees.emp_no, employees.first_name, employees.last_name, employees.birth_date, titles.title from employees
-> INNER JOIN titles
-> ON titles.emp_no = employees.emp_no WHERE birth_date > '1965-01-01' limit 20;
```

emp_no	first_name	last_name	birth_date	title
10095	Hilari	Morton	1965-01-03	Senior Staff
10095	Hilari	Morton	1965-01-03	Staff
10122	Ohad	Esposito	1965-01-19	Technique Leader
10291	Dipayan	Seghrouchni	1965-01-23	Senior Staff
10291	Dipayan	Seghrouchni	1965-01-23	Staff
10410	Takahito	Gecsei	1965-01-19	Staff
10480	Make	Baba	1965-01-25	Staff
10663	Teunis	Noriega	1965-01-09	Technique Leader
10762	Lech	Himler	1965-01-19	Senior Staff
10762	Lech	Himler	1965-01-19	Staff
10933	Juyoung	Seghrouchni	1965-01-24	Senior Engineer
11015	Jeanna	Riesenhuber	1965-01-24	Senior Staff
11126	Hideo	Daescu	1965-01-08	Senior Staff
11126	Hideo	Daescu	1965-01-08	Staff
11157	Mario	Cochrane	1965-02-01	Engineer
11432	Yongmao	Zwicker	1965-01-15	Engineer
11432	Yongmao	Zwicker	1965-01-15	Senior Engineer
12155	Keiichiro	Glinert	1965-01-21	Engineer
12155	Keiichiro	Glinert	1965-01-21	Senior Engineer
12408	Rasiah	Sudkamp	1965-01-10	Senior Engineer

```
20 rows in set (0.01 sec)

mysql>
```

Avg Sal per title

```
mysql> SELECT titles.title as "Title", avg(s.salary) as "Avg Salary" from titles
-> INNER JOIN salaries s ON s.emp_no = titles.emp_no
-> GROUP BY titles.title;
```

Title	Avg Salary
Senior Engineer	60543.2191
Staff	69308.7241
Engineer	59508.0751
Senior Staff	70470.5013
Assistant Engineer	59304.9863
Technique Leader	59294.3742
Manager	66924.2706

```
7 rows in set (4.17 sec)

mysql>
```

Sum of Marketing Department

```
mysql> SELECT d.dept_name AS "Department", SUM(s.salary) AS "Salary Sum"
-> 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 d.dept_name = 'Marketing' AND de.from_date >= '1990-01-01' AND de.to_date <= '1992-12-31'
-> GROUP BY d.dept_name;
```

Department	Salary Sum
Marketing	54989098

```
1 row in set (0.24 sec)

mysql> S_
```

URL to GitHub Repository: <https://github.com/Starssk1ttles/Week8SQL>