

Relational Databases with MySQL Week 2 Coding Assignment

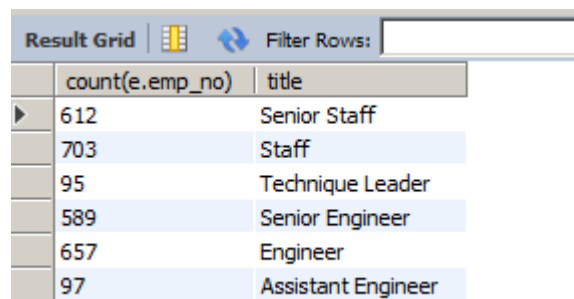
// Student Note : I've placed the query and screenshot of result below the Coding step question
// for clarity versus all together.

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.

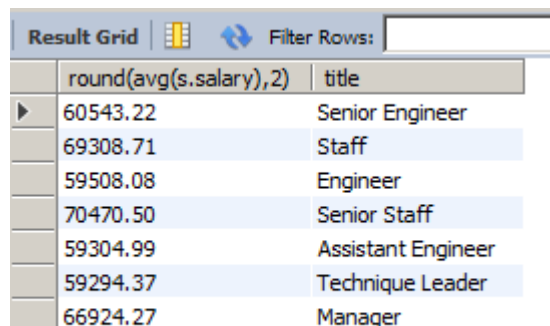
```
select count(e.emp_no), t.title from employees AS e INNER JOIN titles AS  
t ON e.emp_no = t.emp_no WHERE e.birth_date > '1965-01-01' group by  
t.title;
```



	count(e.emp_no)	title
▶	612	Senior Staff
	703	Staff
	95	Technique Leader
	589	Senior Engineer
	657	Engineer
	97	Assistant Engineer

2. I want to know the average salary per title.

```
select round(avg(s.salary),2) , t.title from salaries AS s INNER JOIN  
titles AS t on s.emp_no = t.emp_no group by t.title;
```



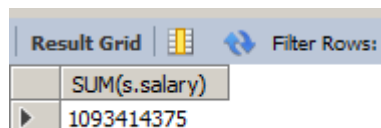
	round(avg(s.salary),2)	title
▶	60543.22	Senior Engineer
	69308.71	Staff
	59508.08	Engineer
	70470.50	Senior Staff
	59304.99	Assistant Engineer
	59294.37	Technique Leader
	66924.27	Manager

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

//Student Notes

// 1.) Both the join query and nested subquery produce an identical result.

```
SELECT SUM(s.salary) from salaries AS s
  INNER JOIN dept_emp AS 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 ( s.from_date > '1990-01-01' and
s.to_date < '1992_12_31');
```



Result Grid		Filter Rows:
	SUM(s.salary)	
▶	1093414375	

```
select SUM(salary) from salaries AS s
where (emp_no in
(select emp_no from dept_emp where dept_no =
(select dept_no from departments where dept_name = 'Marketing') ) )
AND ( s.from_date > '1990-01-01' and s.to_date < '1992_12_31');
```

GIT Hub URL

<https://github.com/david2joh/sqlWeek2.git>

Screenshots of Queries:

See above

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

See Above

URL to GitHub Repository: