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. 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.

```
select t.title, count(birth_date) as "Number of Employees Born After 1965-01-01" from titles t
inner join employees e on t.emp_no = e.emp_no where birth_date > 1965-01-01 group by title;
```

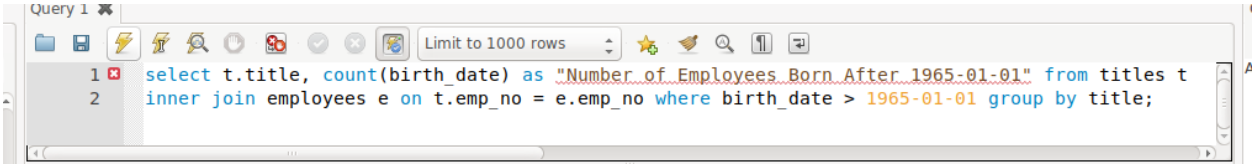
2. I want to know the average salary per title.

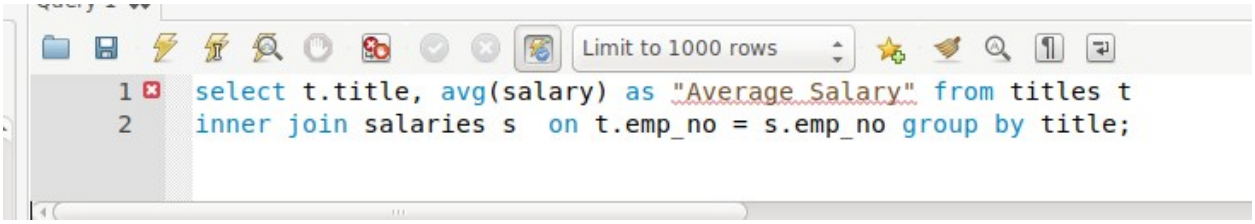
```
select t.title, avg(salary) as "Average Salary" from titles t
inner join salaries s  on t.emp_no = s.emp_no group by title;
```

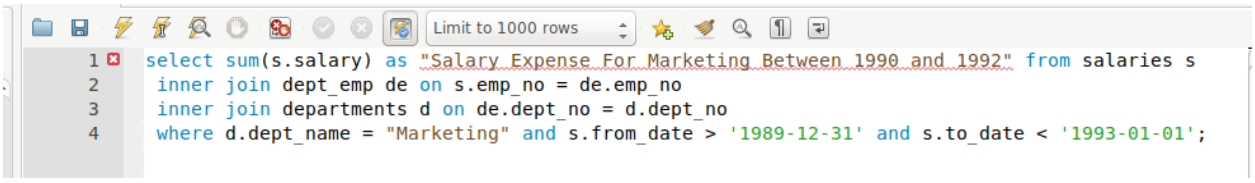
3. How much money was spent on salary for the marketing department between the years 1990 and 1992?

select sum(s.salary) as "Salary Expense For Marketing Between 1990 and 1992" from salaries s inner join dept_emp de on s.emp_no = de.emp_no inner join departments d on de.dept_no = d.dept_no where d.dept_name = "Marketing" and s.from_date > '1989-12-31' and s.to_date < '1993-01-01';

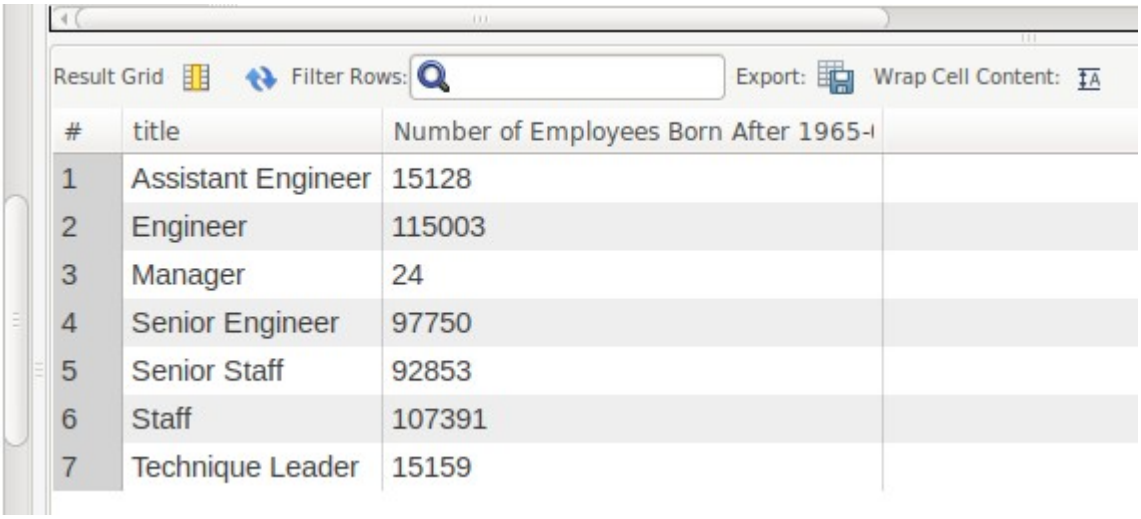
Screenshots of Queries:



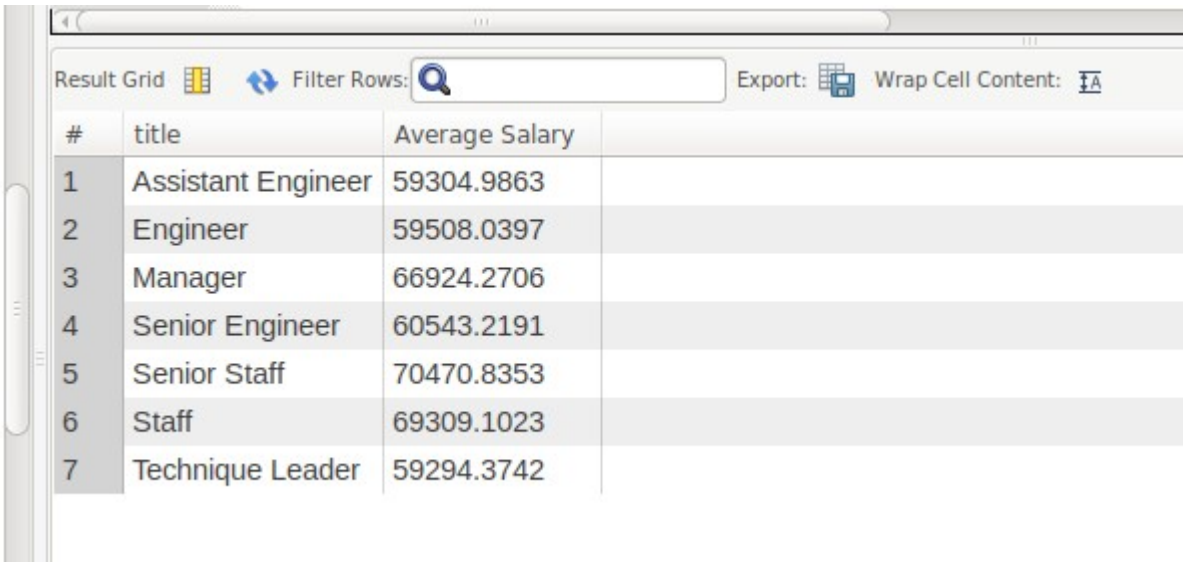




Screenshots of Query Results (only include the last 20 rows):

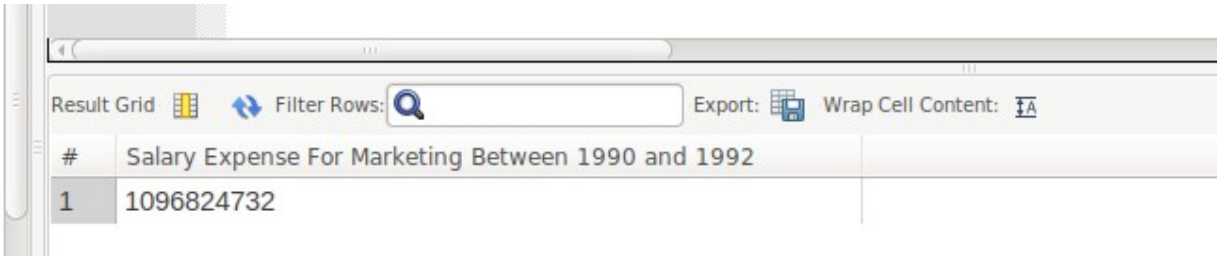


#	title	Number of Employees Born After 1965-I
1	Assistant Engineer	15128
2	Engineer	115003
3	Manager	24
4	Senior Engineer	97750
5	Senior Staff	92853
6	Staff	107391
7	Technique Leader	15159



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

#	title	Average Salary
1	Assistant Engineer	59304.9863
2	Engineer	59508.0397
3	Manager	66924.2706
4	Senior Engineer	60543.2191
5	Senior Staff	70470.8353
6	Staff	69309.1023
7	Technique Leader	59294.3742



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

#	Salary Expense For Marketing Between 1990 and 1992
1	1096824732

URL to GitHub Repository:

https://github.com/dwold/Week8Assignment