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.	
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.

Notes: (Each relevant table used in this assignment described)

mysql> describe employees;					
Field	Туре	Null	Key	Default	Extra
emp_no birth_date first_name last_name gender hire_date	int date varchar(14) varchar(16) enum('M','F') date	NO NO NO NO NO NO	PRI	NULL NULL NULL NULL NULL NULL	

```
mysql> describe titles;
 Field
                             Null
                                     Key
                                           Default
                                                      Extra
              Type
 emp_no
              int
                             NO
                                     PRI
                                           NULL
 title
              varchar(50)
                             NO
                                     PRI
                                           NULL
                                     PRI
 from date
              date
                             NO
                                           NULL
 to date
                             YES
              date
                                           NULL
 rows in set (0.00 sec)
mysql> describe salaries;
 Field
                     Null
                                   Default
                             Key
                                              Extra
              Type
                             PRI
 emp_no
              int
                     NO
                                   NULL
 salary
                                   NULL
              int
                      NO
                             PRI
 from date
              date
                     NO
                                   NULL
 to date
              date
                     NO
                                   NULL
 rows in set (0.00 sec)
mysql> describe departments;
 Field
              Type
                             Null
                                    Key
                                           Default
                                                      Extra
 dept_no
              char(4)
                             NO
                                     PRI
                                           NULL
 dept name
              varchar(40)
                             NO
                                     UNI
                                           NULL
mysql> describe dept_emp
                        Null
 Field
              Type
                                       Default
                                Key
                                                 Extra
              int
                        NO
                                PRI
                                       NULL
 emp no
 dept no
              char(4)
                         NO
                                PRI
                                       NULL
 from date
              date
                        NO
                                       NULL
 to_date
              date
                        NO
                                       NULL
```

- 1. I want to know how many employees with each title were born after 1965-01-01.
- Personal Notes for Logic Purposes FUNCTION Sum of employees
 SELECT Only 3 columns. 1 for number of employees, 1 for the title name, 1 for birth date
 FROM tables employees joining with titles
 WHERE born after 1965-01-01
 GROUP BY TITLES

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

FUNCTION Average Salary SELECT Only 2 columns. 1 for average salary. 1 for title. FROM tables salaries joining with titles GROUP BY TITLES

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

FUNCTION Total Salary from Salary table
SELECT Only 2 columns. 1 for money spent 1 for marketing
FROM salaries table joining with dept_emp joining with employees
WHERE from_date => 1990 AND to_date <= 1992
HAVING Dept_Name = Marketing

Screenshots of Queries:

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

```
Number of Employees
                            Title Name
                                                  Birth Date
                            Senior Staff
                                                  1965-01-03
                      612
                      703
                            Staff
                                                  1965-01-03
                            Technique Leader
                       95
                                                  1965-01-19
                      589
                            Senior Engineer
                                                  1965-01-24
                      657
                            Engineer
                                                  1965-02-01
                                                  1965-01-03
                            Assistant Engineer
1.
```

+	++		
Title Name	Average Salary		
Senior Engineer	60543.2191		
Staff	69308.7124		
Engineer	59508.0751		
Senior Staff	70470.5013		
Assistant Engineer	59304.9863		
Technique Leader	59294.3742		
Manager	66924.2706		
Department Salary Sum			

URL to GitHub Repository:

https://github.com/AkemiTCGyt/PromineoTechWeek8CodingAssignment