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. Lastly, in the Learning Management System, click the “Add Submission” button and paste the URL to your GitHub repository.

**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:**

**select count(\*), t.title from employees e, titles t where e.emp\_no = t.emp\_no and e.birth\_date >= '1965-01-01' group by t.title;**

**select avg(s.salary), t.title from salaries s, titles t where t.emp\_no = s.emp\_no group by t.title;**

**select sum(s.salary), d.dept\_name from salaries s, dept\_emp de, departments d where s.emp\_no = de.emp\_no and de.dept\_no = d.dept\_no and d.dept\_name = 'Marketing' and year(de.from\_date) >= 1990 and year(de.to\_date) <= 1992;**

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

**select count(\*), t.title from employees e, titles t where e.emp\_no = t.emp\_no and e.birth\_date >= '1965-01-01' group by t.title;**

**+----------+--------------------+**

**| count(\*) | title |**

**+----------+--------------------+**

**| 633 | Senior Staff |**

**| 720 | Staff |**

**| 99 | Technique Leader |**

**| 610 | Senior Engineer |**

**| 683 | Engineer |**

**| 101 | Assistant Engineer |**

**+----------+--------------------+**

**select avg(s.salary), t.title from salaries s, titles t where t.emp\_no = s.emp\_no group by t.title;**

**+---------------+--------------------+**

**| avg(s.salary) | title |**

**+---------------+--------------------+**

**| 60543.2191 | Senior Engineer |**

**| 69308.7124 | Staff |**

**| 59508.0751 | Engineer |**

**| 70470.5013 | Senior Staff |**

**| 59304.9863 | Assistant Engineer |**

**| 59294.3742 | Technique Leader |**

**| 66924.2706 | Manager |**

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**select sum(s.salary), d.dept\_name from salaries s, dept\_emp de, departments d where s.emp\_no = de.emp\_no and de.dept\_no = d.dept\_no and d.dept\_name = 'Marketing' and year(de.from\_date) >= 1990 and year(de.to\_date) <= 1992;**

**+---------------+-----------+**

**| sum(s.salary) | dept\_name |**

**+---------------+-----------+**

**| 54989098 | Marketing |**

**+---------------+-----------+**

**URL to GitHub Repository:**