**Lab 10 – SQL**

**DUE START OF CLASS MARCH 31st 2016**

**Each problem is worth one point. No partial credit will be given. This lab is worth a total of 20 points.**

**Use hostname: classdb.jccc.edu**

**From this lab forward, please notice if a result table is in a particular order. If it is you must use the order by clause. Failure to do so will result in 0 points for that specific problem.**

**Place all answers into ONE .sql file. Attach that file to Dropbox for Lab 10 in D2L. Only one .sql file will be accepted.**

**Remember, in order to insert, update or delete table data, you must place a copy of the original table into your table space. You do not have update permissions on the original tables.**

**\*\*\*\* Use the Student table space for the following questions \*\*\*\***

**1. Change Mary’s title on your Employee table to ‘Director’.**

**1 rows updated**

**2. Give all employees a 10% raise in salary. Use your Employee table.**

**4 rows updated**

**3. Display the average salary of all employees. Use your Employee table.**

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**4. Insert a new record into your Employee table (Employee\_ID of 5, Name of ‘Dave’, Salary**

**of 3000, Title of ‘Manager’) .**

**1 rows inserted**

**5. Display the standard deviation of the salary for all employees. Use your Employee table.**

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**6. Insert a new record into your Enrollment table. You must insert a valid value for the final**

**grade.**

**1 rows inserted**

**7. Give all students in section 81 a final grade of 95. Use your Enrollment table.**

**3 rows updated**

**8. Display the number of students in your enrollment table that now have a valid final**

**grade.**

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**9. Delete ‘Dave’ from your Employee table.**

**1 rows deleted**

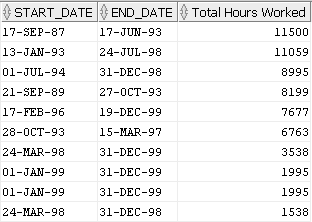
**10. Delete all rows in your Employee table.**

**4 rows deleted**

**\*\*\*\* Use the HR table space for the following questions \*\*\*\***

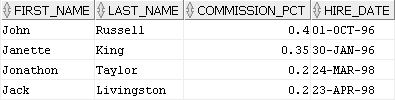
**11. Display the approximate hours a person has worked. Assume 2000 hours per year is**

**worked by an individual. Use the Job\_History table.**

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**12. Display all employees whose first name starts with a ‘J’ and whose commission rate is**

**greater than 10%. Use the Employees table.**

****

**13. Display all employees whose first name starts with a ‘J’ and whose commission rate is**

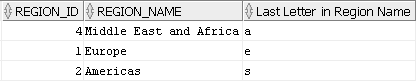
**greater than 10% and whose last name contains an ‘o’ and whose was hired after June 1,**

**1996. Use the Employees table.**

****

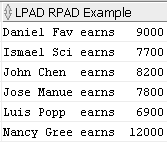
**14. Display the last letter of all region names that are longer than 4 characters. Use the**

**Regions table.**

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**15. Using LPAD and RPAD, recreate the following result table for department 100. Use the**

**Employees table.**

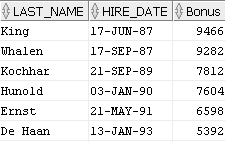
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**16. Calculate a bonus for each employee by using the number of days since they were hired.**

**The employee receives $2 for each day they have been with the company. Assume this**

**query is run on June 1, 2000. Use the Employees table.**

**Partial result table (107 rows total)**

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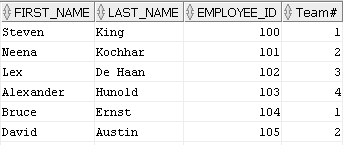
**17. Display team numbers for all employees. Team numbers are found by dividing the**

**employee id by four. If 4 divides the employee id evenly, then that employee is part of**

**team 1. For the other cases, a remainder of 1 places that employee on team 2, etc. Use**

**the Employees table.**

**Partial result table (107 rows total)**

****

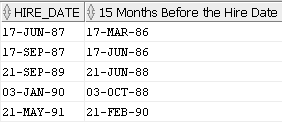
**18. Using question 17 as a starting point, display the number of employees on each team.**

**Use the Employees table.**

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**19. Display the following result table. Use the Employees table.**

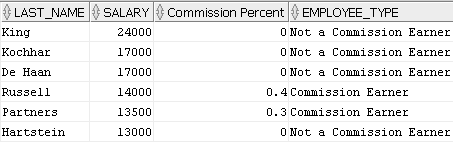
**Partial result table (107 rows total)**

****

**20. Display all employees as either someone that earns a commission or someone that does**

**not earn a commission. Use the Employees table.**

**Partial result table (107 rows total)**

****

**21. Display the number of employees employed each year. Use the Job\_History table.**

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**22. Display the job id of employees having an average salary of more than $10,000 and there**

**must be more than one employee with that job id. Use the Employees table.**

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**23. Using a NATURAL JOIN, join the tables Regions and Countries. Only select a country name**

**of Canada. Use the Regions and Countries tables.**

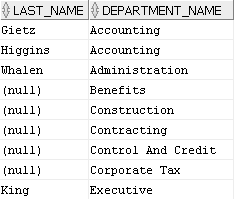
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**24. Display all employees that are part of a department. Show any employees that are not**

**part of a department. Show any departments that do not have any employees. Use the**

**Departments and Employees tables.**

**Partial result table (123 rows total)**

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**25. Using question 24 as a starting point, display any employees that are not currently**

**assigned to a department. Use the Departments and Employees tables.**

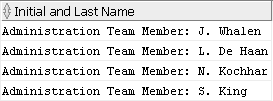
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**26. Display all managers that are in department 20 or 30, but not in department 50. You**

**must use SET OPERATORS to receive credit. Use the Employees table.**

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**27. Display all administration employees. Use the Employees table.**

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**\*\*\*\* Use the Dual table for the following questions \*\*\*\***

**28. Display the number of seconds in a year. Use the Dual table.**

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**29. Starting with the date/time of July 20, 2001 10:40:12, display the following result table. Use the Dual table.**

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**30. Display May 13, 2015 as per the following result table. Use the Dual table.**

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