DBMS-1002  
Assignment 5

short line

# Instructions

For each question below: read carefully what is being asked and create an SQL Query which answers the question. Note that it is sometimes possible to misinterpret the meaning of a question. When in doubt, please clarify with your instructor before handing in your assignment.

IMPORTANT NOTE:   
You cannot use the **LIKE** keyword in this assignment, you must use functions instead.

# Grading

Your instructor will review your assignment with you for completeness and comprehension. This review will be done on an individual basis and you will be asked questions

# Questions

| Q | Level 1 | Expected Result |
| --- | --- | --- |
| 1 | Make a query that displays all employees whose phone number starts with “**515**”. Display the result as a single column, format the results as follows: “**Steven King** can be contacted at **515.123.4567**” Remember you can’t use the LIKE keyword. | 21 records |
| 2 | Make a query that tells us the difference between the average minimum salary and average maximum salary in the Jobs table. Note: You do not have to format the number to show less decimal places.  Example: If the average minimum salary was 5000 and the average maximum salary is 13000, then the result to display would be 8000. | 1 record |
| 3 | Show all location's whose postal code is exactly 5 characters long. Display the postal code and city name. When displaying the city name, remove all space characters. | 9 records |
| 4 | Display all country names in the new format: The last 3 letters of the region name combined with the last 3 letters of the country name. Order by the new country name in alphabetical order.  Example: Americas & Canada = casada | 25 records |
| Q | Level 2 | Expected Result |
| 5 | Find all jobs where there is only 1 employee with that job. Display the job titles in ascending order. Note: You do not need the job\_history table. | 10 records |

Level 3 on next page…

| Q | Level 3 | Expected Result |
| --- | --- | --- |
| 6 | (3 marks) Show the count of employees who have the same job id. Include the average pay for that job and the last date someone was hired with that job.  Order the result by the largest number of employees, then order by highest average pay.  **Note: the row ordering below and the FORMATTING of average pay. Make your report look the same.**  HInts: CAST function, ROUND function | 19 records |
| 7 | (2 Marks) Display a count of all employees for each department. We only need to include employees with the Job ID of “IT\_PROG” and “SA\_REP”. You must show both the department id and department name beside the employee count. Only show the departments that have less than 3 employees. | 1 record |

# Assessment

You will be assessed based on the rubric attached to your DropBox.

# Hand-in

In this assignment you will create a new .SQL file using PostgreSQL. Please rename your file to follow the format: ***assignment#\_firstname\_lastname.sql***

For Example: ***assignment5\_scott\_wachal.sql***

Use the appropriate LEARN DropBox to upload your file. If you need to upload a newer version, you may do so before the deadline, but only the newest copy will be graded by your instructor.

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