**Assignment: DML**

Download SQLAssignment.sql database from Blackboard and import the database to phpMyAdmin as a new database named “SQLAssignment”. Write the SQL commands for the following queries and execute those in your machine. Also, show the output tables.

1. List the property numbers and city of all properties that have been viewed. You need to eliminate duplicates from the list. Also, arrange the list by ascending order of city (alphabetic order), and within city, in descending order of property number (alphabetic order).

[3 Points]

* 1. **SQL Command:** 
     1. SELECT DISTINCT propertyno  
        FROM PropertyForRent

Order By city ASC, propertyno DESC;

* 1. **Output Table:**
     1. Graphical user interface, application

        Description automatically generated with medium confidence

1. Assume, the salary column in staff table presents the annual salary of a staff. Now, list all staff with monthly salary less than 1000. In your list, show staff number, last name, and monthly salary. [2 Points]
   1. **SQL Command:**
      1. SELECT staffNo, lName, salary  
         FROM staff  
         WHERE salary/12 < 1000;
   2. **Output Table:**
      1. Graphical user interface, text

         Description automatically generated with medium confidence

1. Find all clients with the string ‘flintyrock’ in their email address. In your list, show client number, last name, and email address. [1 Point]
   1. **SQL Command:**
      1. SELECT clientNo, lname, email

FROM client

WHERE email LIKE '%flintyrock%';

* 1. **Output Table:**
     1. Graphical user interface, website

        Description automatically generated

1. Find the total number of female staff in the Staff table. You need to name the output column as ‘NumOfFemaleStaff’. [1 Point]
   1. **SQL Command:**
      1. SELECT COUNT(staffNo) as NumOfFemaleStaff

FROM staff

WHERE sex='F';

* 1. **Output Table:**
     1. Graphical user interface, application

        Description automatically generated

1. For each branch office with at least two members of staff, find the number of staff working in each branch and the average of their salaries. Your output table should have three columns: BranchNumber, MyCount, MyAverage. [2 Points]
   1. **SQL Command:**
      1. SELECT branchNo AS BranchNumber, COUNT(staffNo)>=2 as MyCount, AVG(salary) as MyAverage

FROM staff

GROUP BY branchNo

HAVING count(staffNo) >= 2;

* 1. **Output Table:**
     1. Graphical user interface, application

        Description automatically generated

1. Increase the number of rooms by 1 and rent by 10% of property PL94. Show your updated row.

[1 Point]

* 1. **SQL Command:**
     1. UPDATE PropertyForRent

SET rooms = rooms + 1, rent = rent + (rent \* 0.10)

WHERE propertyno='PL94';

* 1. **Output Table:**
     1. ****