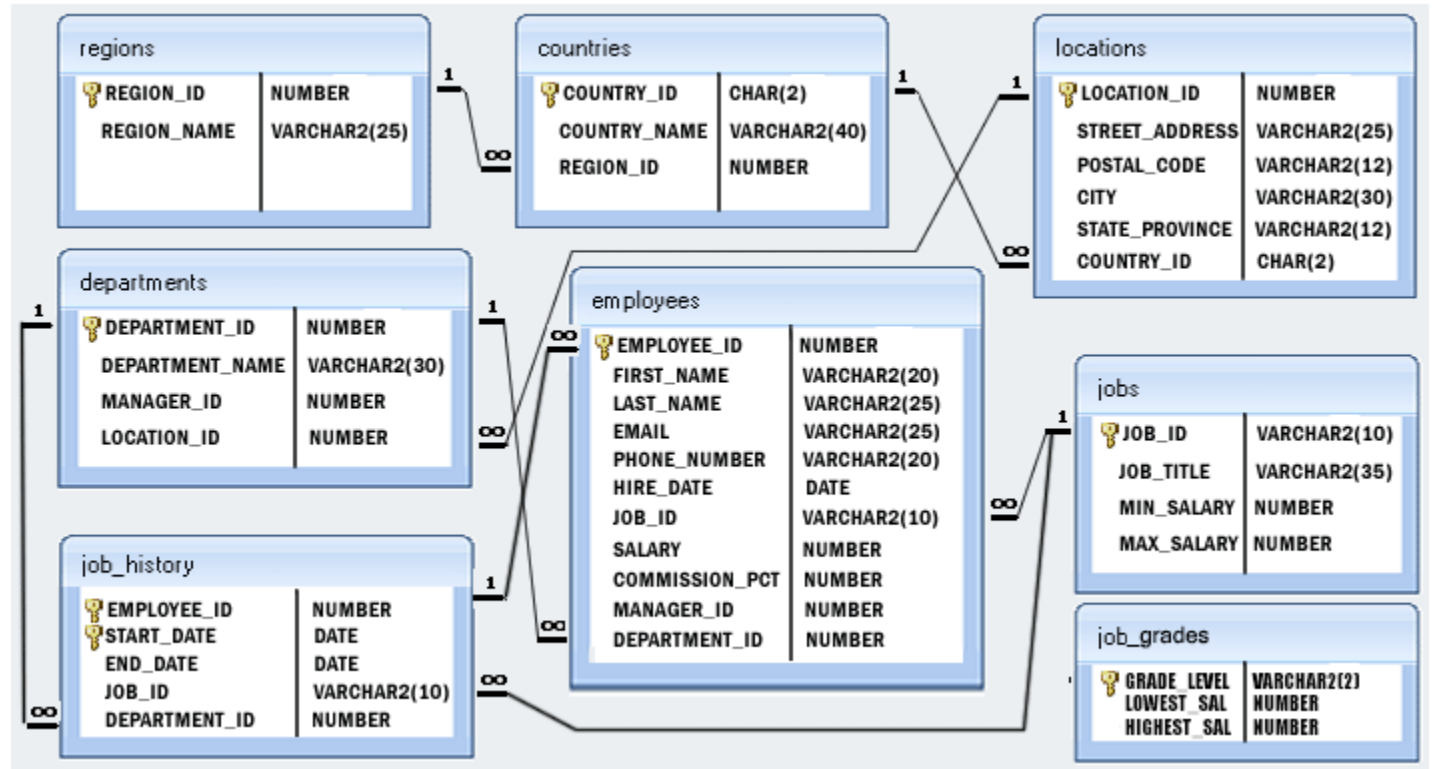


STAT 4260 – Databases
Spring 2018

Assignment 6 – [55 points]

For this assignment, we will again be using the **hr** database from Assignment 3*.
The following is the structure of the **hr** database:



*Provided by w3resource website

It's good practice to make SQL keywords uppercase to distinguish them from other parts of your query. Please do this to make it easier for the grader. Also remember to include a semicolon at the end of your query. This tells SQL where the end of your query is!

FOR THIS ASSINGMENT ALL QUERIES SHOULD BE MADE USING SUBQUERIES.

[-5pts] Electronic submission

Grading standards: Questions are now all points or nothing and worth 3pts unless otherwise noted

1. Provide the SQL code to display the name (first_name, last_name separately) and the salary of the employees who have a higher salary than the employee whose last name is 'Bull'.
2. Provide the SQL code to display the name (first_name, last_name separately) of the employees who work in the IT department.
3. **[6pts]** Provide the SQL code to display the name (first_name, last_name separately) of the employees who have a manager and worked in a USA based department. Hint – Will need to use multiple tables.
4. Provide the SQL code to display the name (first_name, last_name separately) of the employees who are managers using just the **employees** table
5. Provide the SQL code to display the name (first_name, last_name separately), and salary of the employees whose salary is greater than the average salary of all employees.
6. Provide the SQL code to display the name (first_name, last_name separately), and salary of the employees whose salary is equal to the minimum salary for their **job id**. Hint- You will have to use two tables.
7. **[6pts]** Provide the SQL code to display the name (first_name, last_name separately), and salary of the employees who earn more than the average salary of all employees and who work in any of the IT departments (departments starting with 'IT').
8. Provide the SQL code to display the name (first_name, last_name separately), and salary of the employees who the same salary as the minimum salary for all departments.
9. Provide the SQL code to display the name (first_name, last_name separately), and salary of the employees whose earn a salary that is higher than the salary of all the Shipping Clerks ('SH_CLERK'). Sort the results from lowest to highest salary.
10. Provide the SQL code to display the employee ID, first name, last name, and department names of all employees
11. **[4pts]** Provide the SQL code to display the employee_id, first name, last name, and salary of all employees whose salary is above average for their departments using a correlated subquery.
12. **[4pts]** Provide the SQL code to display the 5th maximum salary in the employees table using a correlated subquery, e.g. if the salaries were 1200, 1200, 1100 the 2nd maximum salary would be 1100 not 1200.
13. **[4pts]** Provide the SQL code to display the last 10 records from the employees table. Hint – Use an operator in the ORDER BY clause
14. Provide the SQL code to display a list of the department ID and name of all the departments where no employee is working

SOLUTION

15. **[4pts]** Provide the SQL code to display the 3 maximum salaries using a correlated subquery.