CIND 110 Data Organization For Data Analysts

Assignment II Practicing SQL Queries

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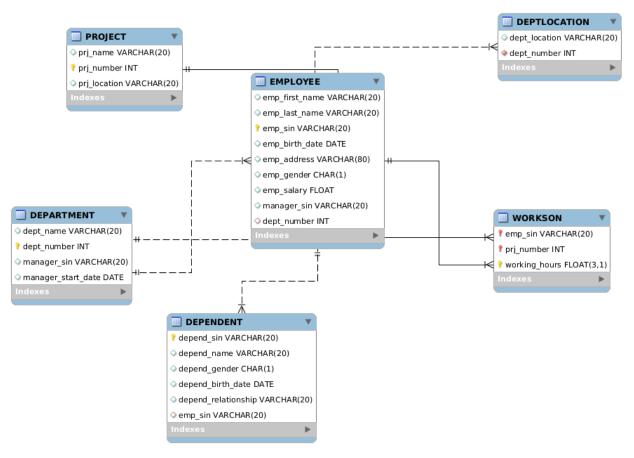


Figure 1: ER diagram for CompanyDB

1. For every project located in 'Montreal', list the project name, the controlling department number, and the department manager's last name.

2. Retrieve repeated addresses and the names of employees who lives at these addresses

3. Retrieve the first name, address and salary of each employee whose last name starts with the letter 'E' and works for either the 'Marketing' or the 'Administration' department

4. List the names of managers who have at least one dependent.

5. Find the sum of the salaries of all employees of the 'Marketing' department

6. For each department that has more than two employees, retrieve the department number and the number of its employees who are making less than \$50,000.

7. For each department whose average employee salary is less than \$90,000, retrieve the department name and the number of employees working for that department.

8. Retrieve the names of all employees who work in the department that has the employee with the highest salary among all employees

9. Retrieve the names of employees who make at least \$20,000 more than the employee who is paid the least in the company

10. Find the number of employees who are working on more than 2 projects and show the result in descending order

11. Retrieve the employee names and their dependent names. Return employee names even if the dependent name is not present for the employee.

```
mysql> select a.emp_first_name, a.emp_last_name,b.depend_name from EMPLOYEE AS a LEFT OUTER JOIN DEPENDENT AS b
    -> on a.emp_sin = b.emp_sin;
| emp first name | emp last name | depend name |
                | Westerberg
| English
| Enrique
 Susan
                                     Theodore
 Jack
                                      Nabil
 Amarantha
                                      NULL
                 | Wong
| English
| English
  Frank
                                      NULL
                                      Andrew
 Joanne
  Joanne
                                      Elizabeth
                  Narayan
Narayan
 Rakesh
                                      Alice
 Rakesh
                                      Joyce
 Melinda
                                      NULL
                  | Jones
| Baines
 John
                                      John
                  | Wallace
| Jabbar
| Jabbar
  Janine
                                      NULL
  Ahmad
                                      Alice
                                      Joy
Jennifer
 Ahmad
                  Jabbar
 Ahmad
 Ahmad
                  Jabbar
                                      John
                  English
                                      NULL
 Amelia
16 rows in set (0.00 sec)
```

12. If more than one employee is working on the same project with the same number of hours, then display the number of these employees along with the project number.