

Project 1 part 2 solution: (10 points /question)

For each of the following query in English, provide a SQL statement, and show its evaluated result on database instance of project 1 part 1. First problem is solved as template.

1. Find full name (Lname, Minit, Fname) of female employees.

SELECT Fname, Minit, Lname FROM Employee WHERE Sex = 'F';

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MariaDB [company]> SELECT Fname, Minit, Lname
-> FROM Employee
-> WHERE Sex = 'F';
```

Fname	Minit	Lname
Alicia	J	Zelaya
Jennifer	S	Wallace
Joyce	A	English

3 rows in set (0.000 sec)

2. Find full name and salary of all female employees sorted by their salary.
3. Find full name and birthdate of employees who work in “Research” department.
4. For every male employee, find their full name, their supervisor’s full name, their department name, and their department location.
5. Find full name and salary of employees who work under “James E Borg”. Show the list sorted by salary in descending order.
6. Find department name, manager’s full name, and average salary of employees in each department.
7. Find names and total number of allocated hours for each project. Show the list sorted by total number of hours in descending order.

8. Find project name of projects that have less than 40 allocated hours.
9. Find full name and SSN of employees whose department is in “Houston” but do not work in any project that is in “Houston”.
10. Find names of departments that have multiple (more than 1) employees with dependents.
11. Find full name of employees who have spouse but no children as dependents.