**Data Analysis**

1. List the employee number, last name, first name, sex, and salary of each employee

SELECT employees.emp\_no, employees.last\_name, employees.first\_name,employees.sex,salaries.salary

FROM employees

JOIN salaries

ON

employees.emp\_no = salaries.emp\_no

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1. List the first name, last name, and hire date for the employees who were hired in 1986

SELECT employees.first\_name, employees.last\_name,employees.hire\_date

FROM employees WHERE extract(year from hire\_date) = 1986

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1. List the manager of each department along with their department number, department name, employee number, last name, and first name (2 points)

select dept\_manager.dept\_no, departments.dept\_name, dept\_manager.emp\_no, employees.last\_name, employees.first\_name

from dept\_manager inner join departments on

dept\_manager.dept\_no = departments.dept\_no inner join employees on

employees.emp\_no = dept\_manager.emp\_no;

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1. List the department number for each employee along with that employee’s employee number, last name, first name, and department name (2 points)

select dept\_emp.dept\_no, employees.emp\_no, employees.last\_name, employees.first\_name , departments.dept\_name

from employees inner join dept\_emp on

employees.emp\_no = dept\_emp.emp\_no inner join departments on

departments.dept\_no = dept\_emp.dept\_no;

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1. List first name, last name, and sex of each employee whose first name is Hercules and whose last name begins with the letter B (2 points)

select first\_name , last\_name , sex from employees where first\_name like 'Hercules' and last\_name like 'B%'

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1. List each employee in the Sales department, including their employee number, last name, and first name.

select employees.emp\_no, employees.last\_name, employees.first\_name , departments.dept\_name

from employees inner join dept\_emp on

employees.emp\_no = dept\_emp.emp\_no inner join departments on

departments.dept\_no = dept\_emp.dept\_no where departments.dept\_name like '%Sales%';

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1. List each employee in the Sales and Development departments, including their employee number, last name, first name, and department name (4 points)

select employees.emp\_no, employees.last\_name, employees.first\_name , departments.dept\_name

from employees inner join dept\_emp on

employees.emp\_no = dept\_emp.emp\_no inner join departments on

departments.dept\_no = dept\_emp.dept\_no where departments.dept\_name like '%Sales%' or departments.dept\_name like '%Development%';

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1. List the frequency counts, in descending order, of all the employee last names (that is, how many employees share each last name) (4 points)

SELECT last\_name,COUNT(\*) as count

FROM employees

GROUP BY last\_name

ORDER BY count DESC;

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