--#1. List the following details of each employee: employee number, last name, first name, gender, and salary.

select e.emp\_no,e.last\_name,e.first\_name,e.gender,s.salary

from employee e,salaries s

where e.emp\_no=s.emp\_no

--#2. List employees who were hired in 1986.

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

FROM employee WHERE hire\_date BETWEEN '1986-01-01' AND '1987-01-01';

--#3. List the manager of each department with the following information: department number, department name, the manager's employee number, last name, first name, and start and end employment dates.

SELECT dept.dept\_no, dept.dept\_name, dept\_m.emp\_no, employee.last\_name, employee.first\_name, dept\_m.from\_date, dept\_m.to\_date

FROM dept

JOIN dept\_m ON dept.dept\_no = dept\_m.dept\_no

JOIN employee ON dept\_m.emp\_no = employee.emp\_no;

--#4. List the department of each employee with the following information: employee number, last name, first name, and department name.

SELECT dept\_e.emp\_no, employee.last\_name, employee.first\_name, dept.dept\_name

FROM dept\_e

JOIN employee ON dept\_e.emp\_no = employee.emp\_no

JOIN dept ON dept\_e.dept\_no = dept.dept\_no;

--#5. List all employees whose first name is "Hercules" and last names begin with "B."

SELECT first\_name, last\_name

FROM employee WHERE first\_name = 'Hercules' AND last\_name LIKE 'B%';

--#6. List all employees in the Sales department, including their employee number, last name, first name, and department name.

SELECT dept\_e.emp\_no, employee.last\_name, employee.first\_name, dept.dept\_name

FROM dept\_e

JOIN employee ON dept\_e.emp\_no = employee.emp\_no

JOIN dept ON dept\_e.dept\_no = dept.dept\_no

WHERE dept.dept\_name = 'Sales';

--#7. List all employees in the Sales and Development departments, including their employee number, last name, first name, and department name.

SELECT dept\_e.emp\_no, employee.last\_name, employee.first\_name, dept.dept\_name

FROM dept\_e

JOIN employee ON dept\_e.emp\_no = employee.emp\_no

JOIN dept ON dept\_e.dept\_no = dept.dept\_no

WHERE dept.dept\_name = 'Sales' OR dept.dept\_name = 'Development';

--#8. In descending order, list the frequency count of employee last names, i.e., how many employees share each last name.

SELECT last\_name,

COUNT(last\_name) AS "frequency"

FROM employee

GROUP BY last\_name

ORDER BY

COUNT(last\_name) DESC;