Query code

SELECT \* FROM departments;

SELECT \* FROM dept\_emp;

SELECT \* FROM dept\_manager;

SELECT \* FROM employees;

SELECT \* FROM salaries;

SELECT \* FROM titles;

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

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

FROM employees JOIN salaries ON employees.emp\_no = salaries.emp\_no;

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

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

FROM employees 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 departments.dept\_no, departments.dept\_name, dept\_manager.emp\_no, employees.last\_name, employees.first\_name, dept\_manager.from\_date, dept\_manager.to\_date

FROM departments

JOIN dept\_manager ON departments.dept\_no = dept\_manager.dept\_no

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

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

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

FROM dept\_emp

JOIN employees ON dept\_emp.emp\_no = employees.emp\_no

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

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

SELECT first\_name, last\_name

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

FROM dept\_emp

JOIN employees ON dept\_emp.emp\_no = employees.emp\_no

JOIN departments ON dept\_emp.dept\_no = departments.dept\_no

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

FROM dept\_emp

JOIN employees ON dept\_emp.emp\_no = employees.emp\_no

JOIN departments ON dept\_emp.dept\_no = departments.dept\_no

WHERE departments.dept\_name = 'Sales' OR departments.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 employees

GROUP BY last\_name

ORDER BY

COUNT(last\_name) DESC;

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.

"d001" "Marketing" 110022 "Markovitch" "Margareta" "1985-01-01" "1991-10-01"

"d001" "Marketing" 110039 "Minakawa" "Vishwani" "1991-10-01" "9999-01-01"

"d002" "Finance" 110085 "Alpin" "Ebru" "1985-01-01" "1989-12-17"

"d002" "Finance" 110114 "Legleitner" "Isamu" "1989-12-17" "9999-01-01"

"d003" "Human Resources" 110183 "Ossenbruggen" "Shirish" "1985-01-01" "1992-03-21"

"d003" "Human Resources" 110228 "Sigstam" "Karsten" "1992-03-21" "9999-01-01"

"d004" "Production" 110303 "Wegerle" "Krassimir" "1985-01-01" "1988-09-09"

"d004" "Production" 110344 "Cools" "Rosine" "1988-09-09" "1992-08-02"

"d004" "Production" 110386 "Kieras" "Shem" "1992-08-02" "1996-08-30"

"d004" "Production" 110420 "Ghazalie" "Oscar" "1996-08-30" "9999-01-01"

"d005" "Development" 110511 "Hagimont" "DeForest" "1985-01-01" "1992-04-25"

"d005" "Development" 110567 "DasSarma" "Leon" "1992-04-25" "9999-01-01"

"d006" "Quality Management" 110725 "Onuegbe" "Peternela" "1985-01-01" "1989-05-06"

"d006" "Quality Management" 110765 "Hofmeyr" "Rutger" "1989-05-06" "1991-09-12"

"d006" "Quality Management" 110800 "Quadeer" "Sanjoy" "1991-09-12" "1994-06-28"

"d006" "Quality Management" 110854 "Pesch" "Dung" "1994-06-28" "9999-01-01"

"d007" "Sales" 111035 "Kaelbling" "Przemyslawa" "1985-01-01" "1991-03-07"

"d007" "Sales" 111133 "Zhang" "Hauke" "1991-03-07" "9999-01-01"

"d008" "Research" 111400 "Staelin" "Arie" "1985-01-01" "1991-04-08"

"d008" "Research" 111534 "Kambil" "Hilary" "1991-04-08" "9999-01-01"

"d009" "Customer Service" 111692 "Butterworth" "Tonny" "1985-01-01" "1988-10-17"

"d009" "Customer Service" 111784 "Giarratana" "Marjo" "1988-10-17" "1992-09-08"

"d009" "Customer Service" 111877 "Spinelli" "Xiaobin" "1992-09-08" "1996-01-03"

"d009" "Customer Service" 111939 "Weedman" "Yuchang" "1996-01-03" "9999-01-01"

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

"Hercules" "Benzmuller"

"Hercules" "Brendel"

"Hercules" "Baranowski"

"Hercules" "Barreiro"

"Hercules" "Baer"

"Hercules" "Bernardinello"

"Hercules" "Basagni"

"Hercules" "Biran"

"Hercules" "Bernatsky"

"Hercules" "Bail"

"Hercules" "Birge"

"Hercules" "Bisiani"

"Hercules" "Bodoff"

"Hercules" "Biron"

"Hercules" "Buchter"

"Hercules" "Bain"

"Hercules" "Baak"

"Hercules" "Bahr"

"Hercules" "Berstel"

"Hercules" "Benantar"

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

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

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