**HW9**

**Data Analysis**

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

select

e.emp\_no,

e.last\_name,

e.first\_name,

e.sex,

s.salary

from

employees as e

join salaries as s on e.emp\_no = s.emp\_no

order by

s.salary desc

limit 10

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

select

e.first\_name,

e.last\_name,

e.hire\_date

from

employees as e

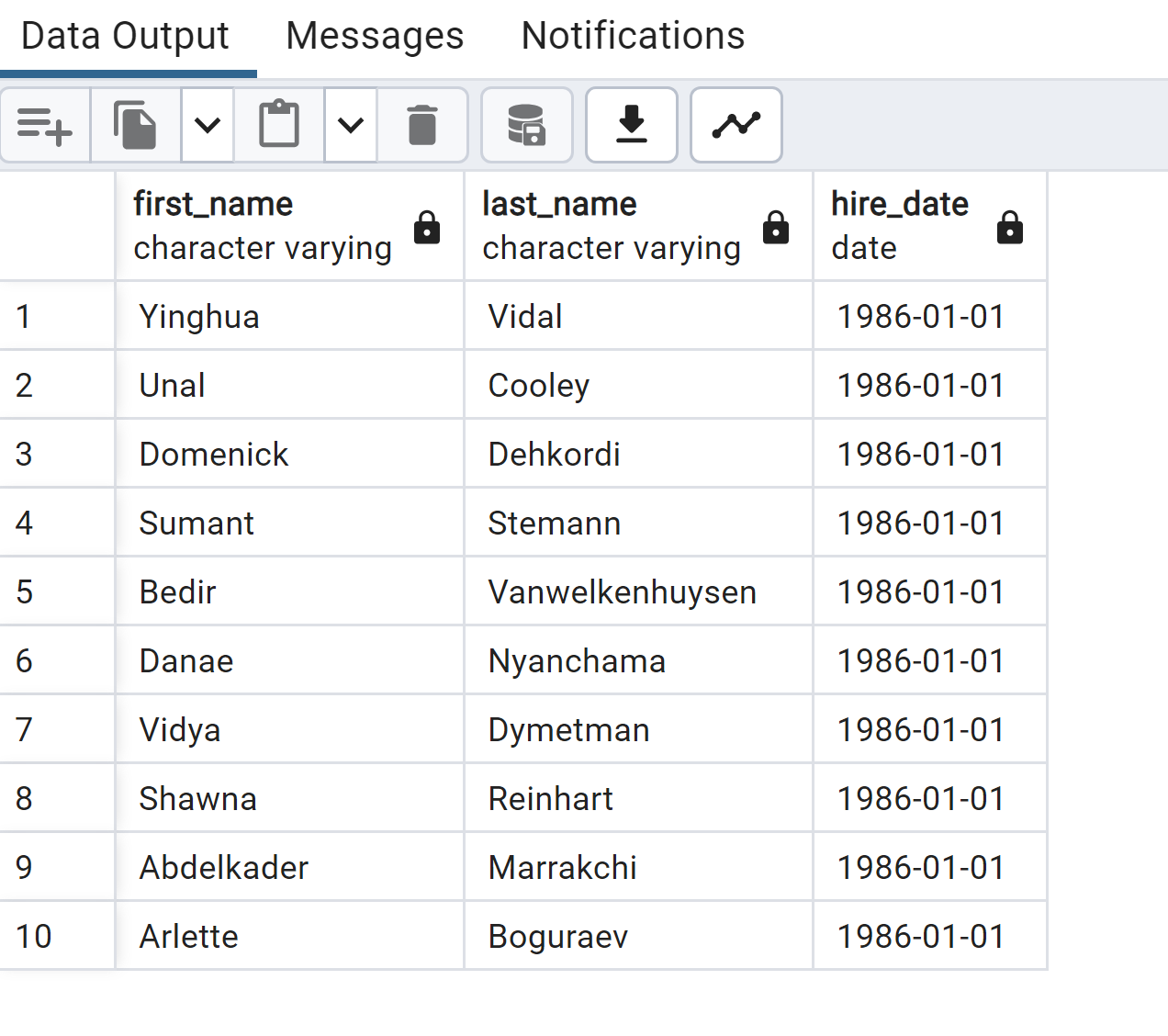
where

hire\_date between '1986-01-01' and '1986-12-31'

order by

e.hire\_date asc

limit 10



1. **List the manager of each department along with their department number, department name, employee number, last name, and first name**.

select

departments.dept\_no,

departments.dept\_name,

dept\_manager.emp\_no,

employees.last\_name,

employees.first\_name

from

departments

join dept\_manager

on departments.dept\_no = dept\_manager.dept\_no

join employees

on dept\_manager.emp\_no = employees.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.**

select

dept\_emp.dept\_no,

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 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.**

select

employees.first\_name,

employees.last\_name,

employees.sex

from

employees

where

employees.first\_name = 'Hercules' and employees.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

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

where

departments.dept\_name = '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.

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

where

departments.dept\_name = 'Sales' or departments.dept\_name = 'Development';

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1. A screenshot of a computer

   Description automatically generated**List the frequency counts, in descending order, of all the employee last names (that is, 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;