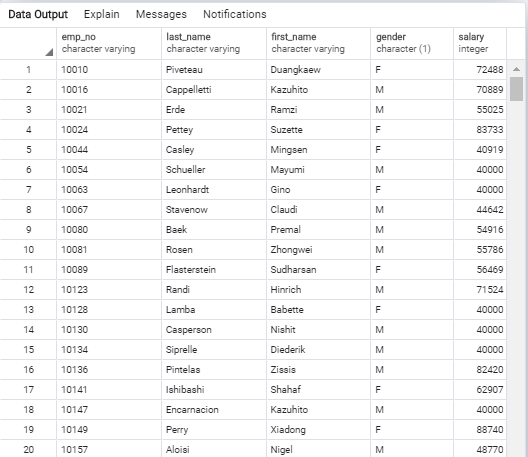
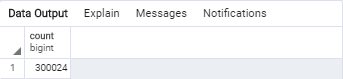
**1. List the following details of each employee: employee number, last name, first name, gender, and salary.**

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;

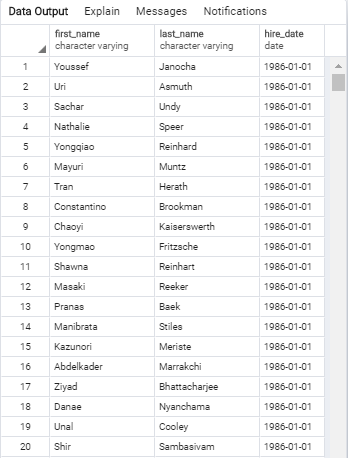
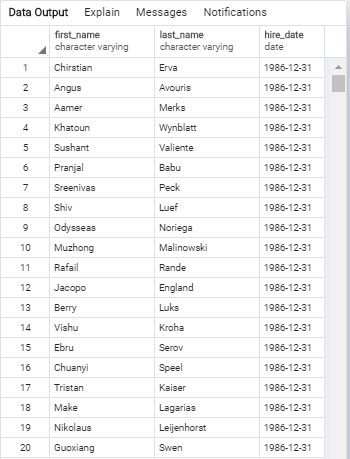


SELECT count(\*) FROM employees JOIN salaries ON employees.emp\_no = salaries.emp\_no;The total number of employees: 300024

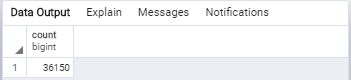


**2. List employees who were hired in 1986.**

SELECT first\_name, last\_name, hire\_date FROM employees WHERE hire\_date BETWEEN '1986-01-01' AND '1986-12-31' order by hire\_date desc;

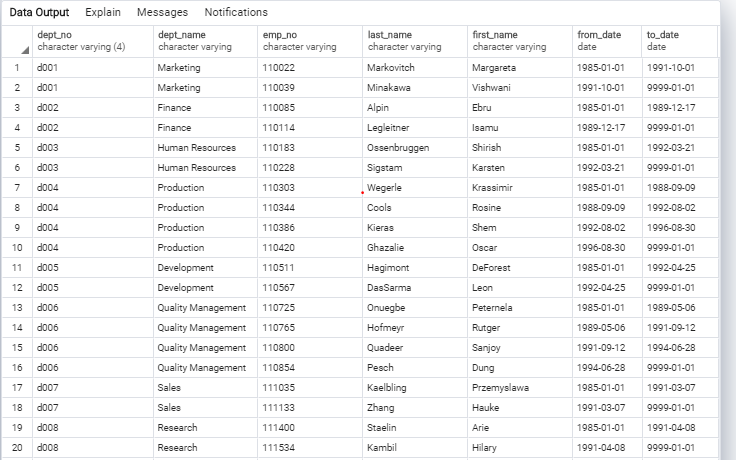
 

SELECT count(\*) FROM employees WHERE hire\_date BETWEEN '1986-01-01' AND '1987-01-01';

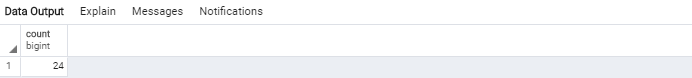


**3. List the manager of each department with the following information: department number, department name, the manager's employee number, last name, first name, and start and end employment dates.**

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;

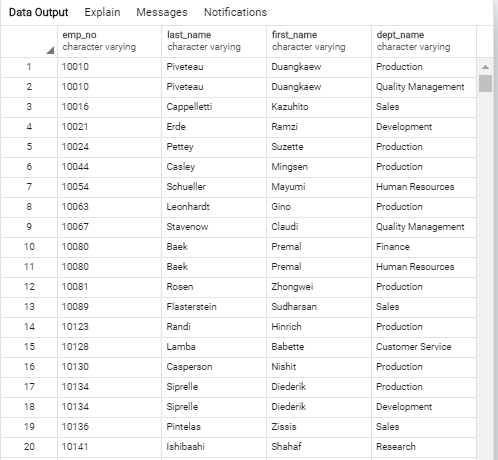


SELECT count(\*) FROM departments JOIN dept\_manager ON departments.dept\_no = dept\_manager.dept\_no JOIN employees ON dept\_manager.emp\_no = employees.emp\_no;

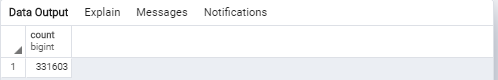


**4. List the department of each employee with the following information: employee number, last name, first name, and department name.**

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;

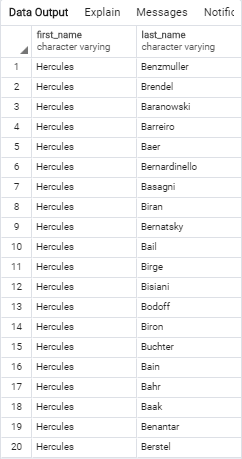


SELECT count(\*) FROM dept\_emp JOIN employees ON dept\_emp.emp\_no = employees.emp\_no JOIN departments ON dept\_emp.dept\_no = departments.dept\_no;

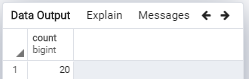


**5. List all employees whose first name is "Hercules" and last names begin with "B."**

SELECT first\_name, last\_name FROM employees WHERE first\_name = 'Hercules' AND last\_name LIKE 'B%';

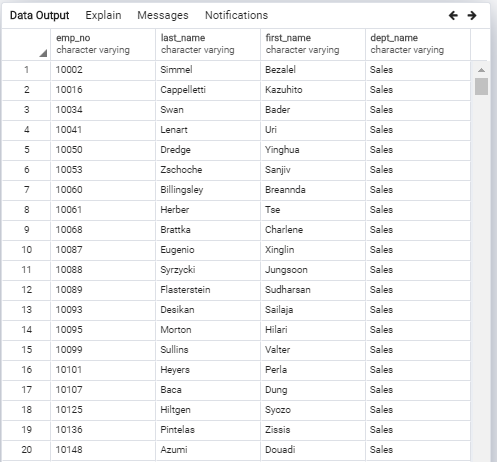


SELECT count(\*) FROM employees WHERE first\_name = 'Hercules' AND last\_name LIKE 'B%';

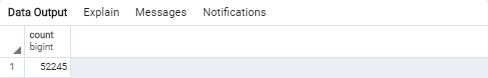


**6. List all employees in the Sales department, including their employee number, last name, first name, and department name.**

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';

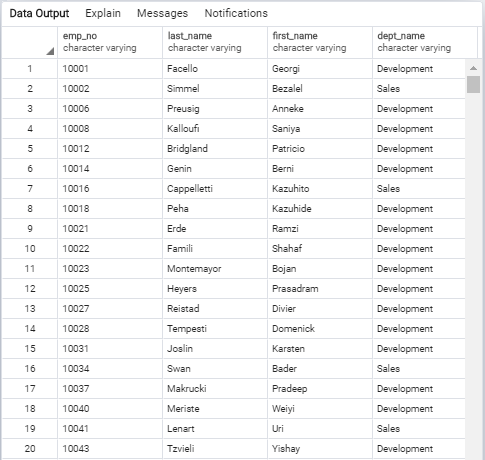


SELECT count(\*) FROM dept\_emp JOIN employees ON dept\_emp.emp\_no = employees.emp\_no JOIN departments ON dept\_emp.dept\_no = departments.dept\_no WHERE departments.dept\_name = 'Sales';

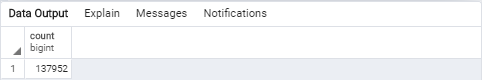


**7. List all employees in the Sales and Development departments, including their employee number, last name, first name, and department name.**

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';



SELECT count(\*) 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;

