

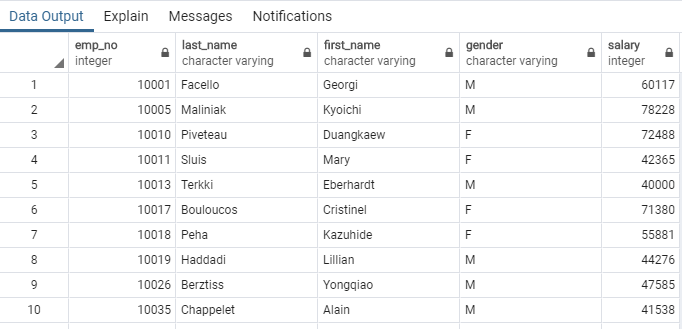
1. **List** the following details of each employee: employee number, last name,

 first name, gender, and salary.

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

from employees

inner join salaries on salaries.emp\_no = employees.emp\_no

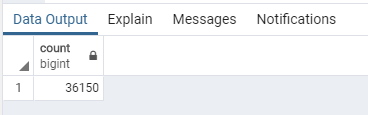


2. **List** employees who were hired in 1986.

select count(employees.emp\_no) from employees

where employees.hire\_date >= '01/01/1986' and employees.hire\_date <= '12-31-1986'

Count of all employees hired during 1986



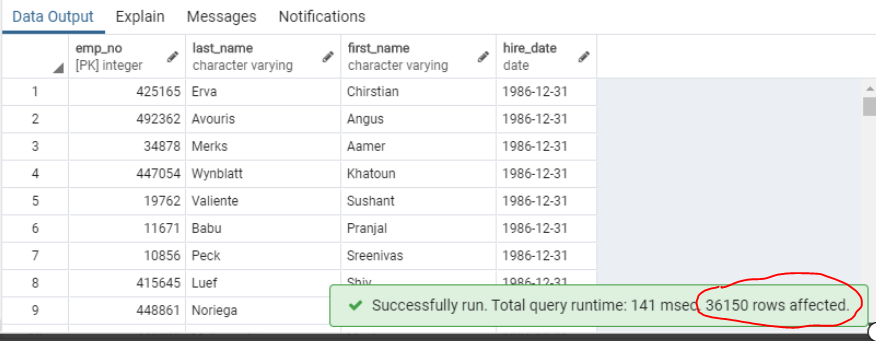
select employees.emp\_no, employees.last\_name, employees.first\_name, employees.hire\_date

from employees

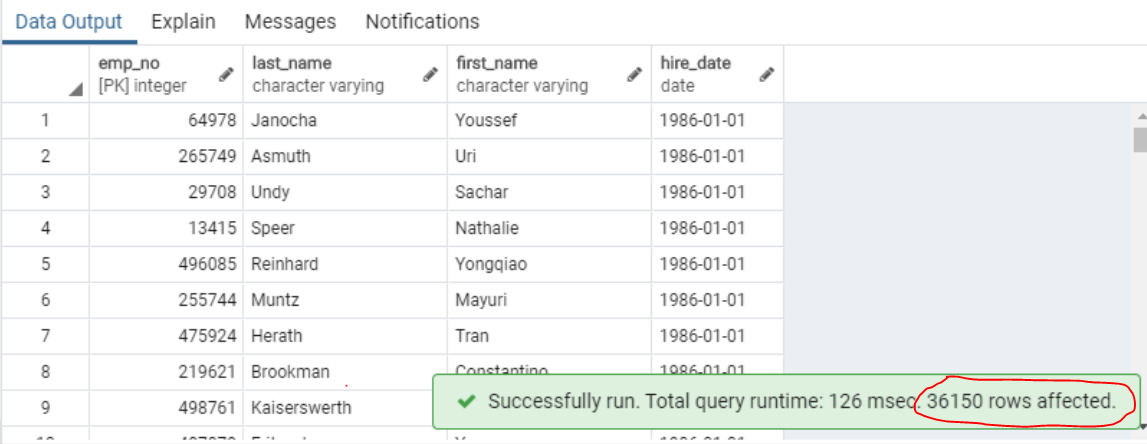
where employees.hire\_date >= '01/01/1986' and employees.hire\_date <= '12-31-1986'

order by employees.hire\_date desc

**Descending by Hire Date**



**Ascending by Hire Date**



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.

Note: Margareta Markovitch was hired on 1/1/1985 but since there is no Termination date I used the last date of her performing as a manager as the employment end-date (10/1/1991).

Select  dept\_manager.dept\_no as "Dept\_Number",

        dept\_manager.to\_date as "Dept\_Mgr\_Last\_Date",

        dept\_manager.emp\_no as "Dept\_Mgr\_Employee\_Number",

        employees.last\_name as "Dept\_Mgr\_Last\_Name",

        employees.first\_name as "Dept\_Mgr\_First\_Name",

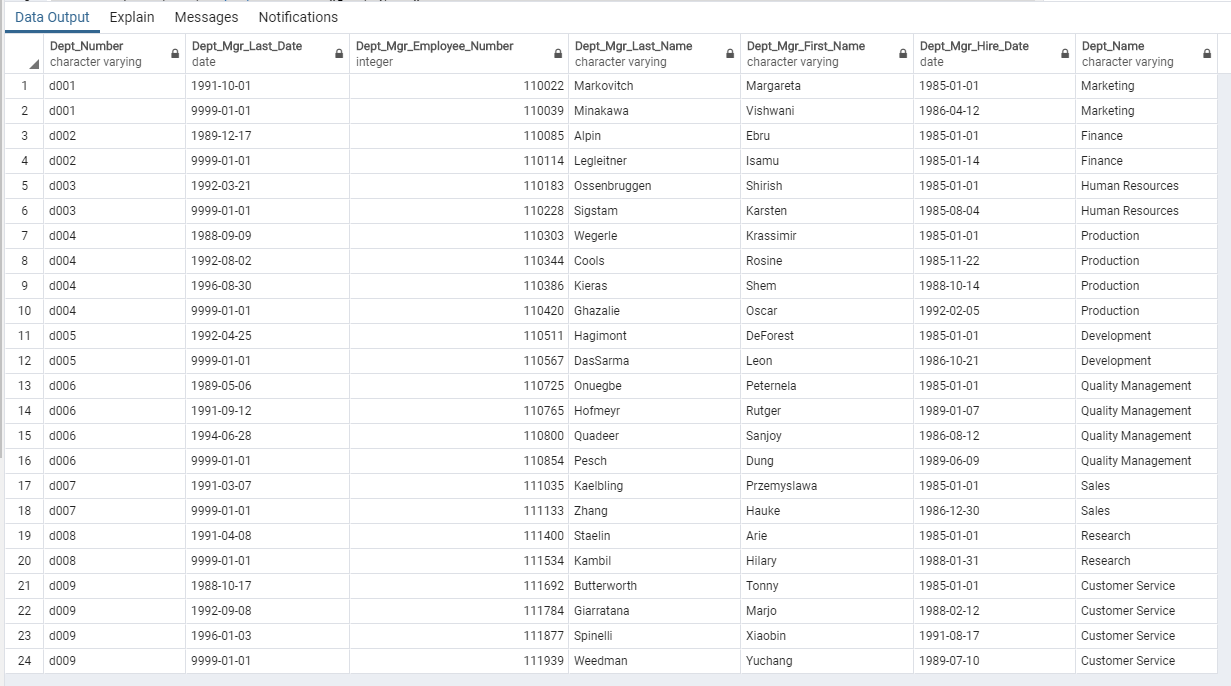
        employees.hire\_date as "Dept\_Mgr\_Hire\_Date",

        departments.dept\_name as "Dept\_Name"

from dept\_manager

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

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



4. **List** the department of each employee with the following information:

employee number, last name, first name, and department name.

**I discovered that I had not created a necessary foreign key to answer this question. Thus I added a foreign key relationship between table "dept\_emp" and table "employees" after I had imported the CSV data. I later went back and updated the ERD shown at the top of this document.**

Alter Table dept\_emp

Add constraint add\_FK\_for\_emp\_no

Foreign Key (emp\_no)

References employees (emp\_no)

Select  employees.emp\_no as "Employee\_Number",

        employees.last\_name as "Employee\_Last\_Name",

        employees.first\_name as "Employee\_First\_Name",

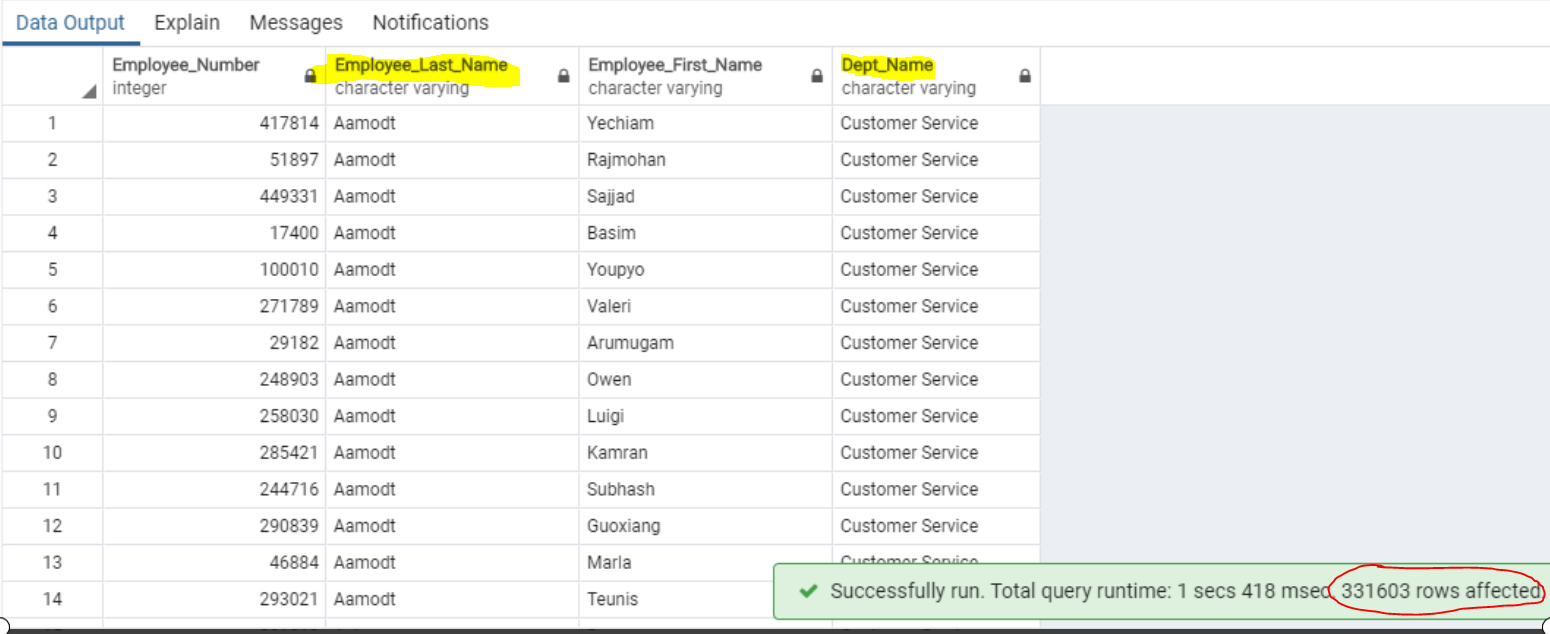
        departments.dept\_name as "Dept\_Name"

from employees

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

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

Order by departments.dept\_name, employees.last\_name



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

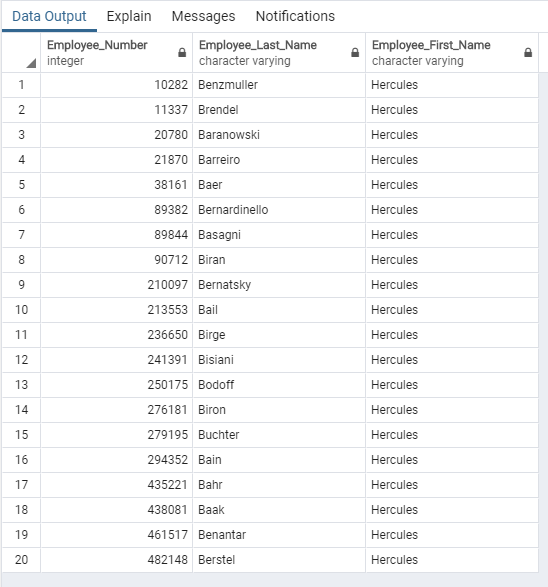
Select  employees.emp\_no as "Employee\_Number",

        employees.last\_name as "Employee\_Last\_Name",

        employees.first\_name as "Employee\_First\_Name"

from employees

where employees.last\_name like 'B%' and employees.first\_name = 'Hercules'



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

name, first name, and department name.

Select  employees.emp\_no as "Employee\_Number",

        employees.last\_name as "Employee\_Last\_Name",

        employees.first\_name as "Employee\_First\_Name",

        departments.dept\_name as "Dept\_Name"

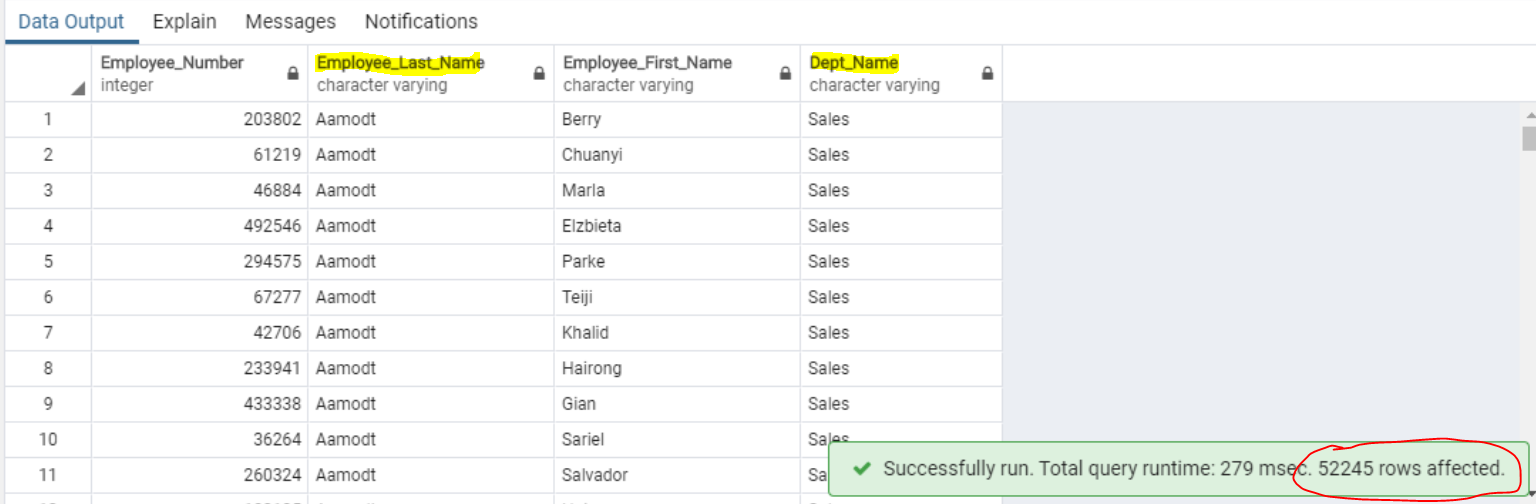
from employees

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

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

where departments.dept\_name = 'Sales'

Order by departments.dept\_name



7. **List** all employees in the Sales and Development departments, including their

employee number, last name, first name, and department name.

Select  employees.emp\_no as "Employee\_Number",

        employees.last\_name as "Employee\_Last\_Name",

        employees.first\_name as "Employee\_First\_Name",

        departments.dept\_name as "Dept\_Name"

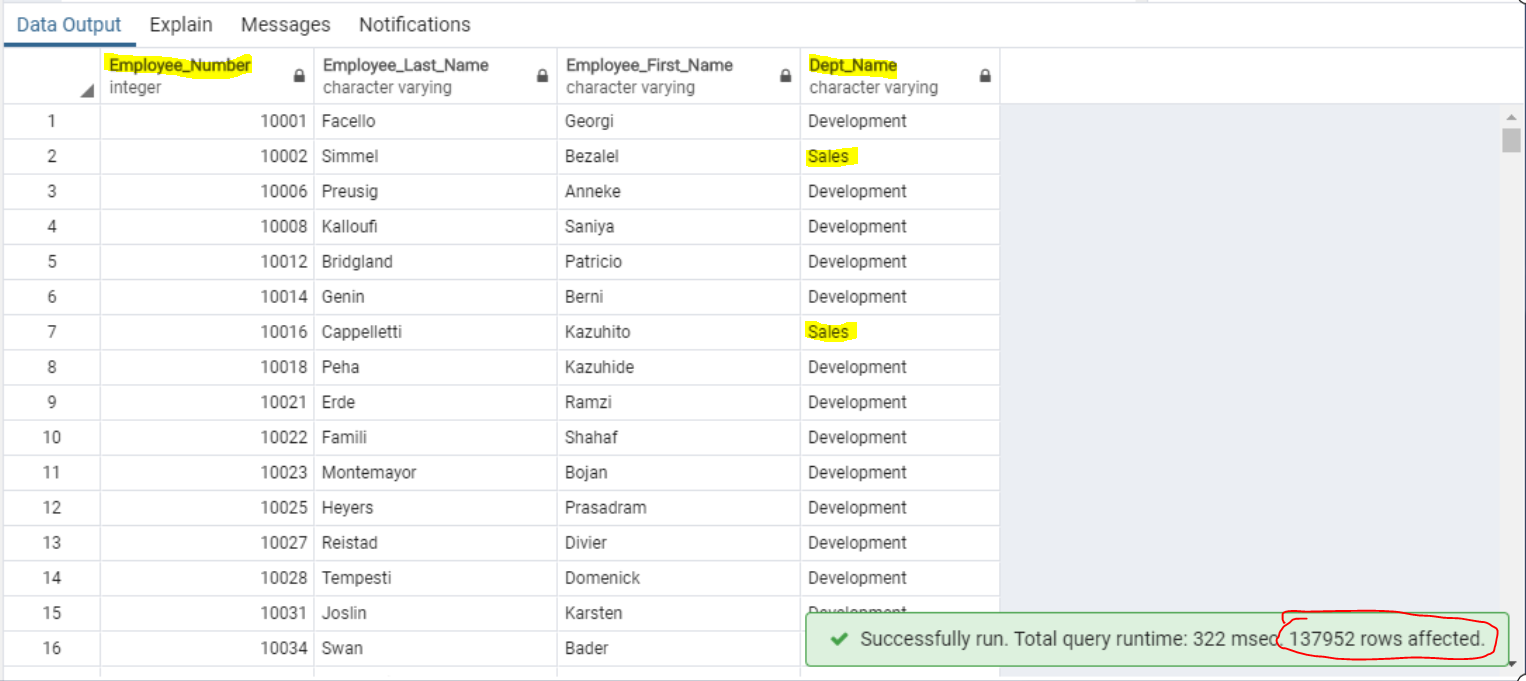
from employees

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

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

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

Order by employees.emp\_no



8. **In descending order, list** the frequency count of employee last names, i.e., how

many employees share each last name.

Select  employees.last\_name, (count(employees.last\_name)) as name\_count

from employees

Group by employees.last\_name

order by name\_count desc **--- sort in descending order by name\_count**

Select  employees.last\_name, (count(employees.last\_name)) as name\_count

from employees

Group by employees.last\_name

order by employees.last\_name desc **--- sort in descending order by last\_name**

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