Writeup for Homework 9 SQL Sajid Anjum 12.01.22

I have included the create\_tables schema and the homework queries in separate .sql files. Here, I will just show the results of the queries and some observations.

Query 1

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

Table

Description automatically generated

I observe many employees with their last names, first names, sex, and salaries.

Query 2

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

Table

Description automatically generated

I observe that all these employees were hired in the year 1986

Query 3

List the manager of each department with the following information: department number, department name, the manager's employee number, last name, first name.

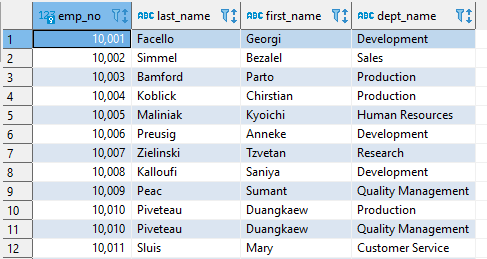
Table

Description automatically generated

I see that most departments have two or three managers.

Query 4

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



This is a list of all the employees and the departments they work for

Query 5

List first name, last name, and sex for employees whose first name is "Hercules" and last names begin with "B."

Table

Description automatically generated

This company has twenty people named Hercules with a last name beginning with B.

Query 6:

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

Table

Description automatically generated

These are a bunch of people who work in sales

Query 7

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

Table

Description automatically generated

These are a bunch of people who work in either sales or development

Query 8

List the frequency count of employee last names (i.e., how many employees share each last name) in descending order.

Table

Description automatically generated

I see that Baba is the most common name at this company.

BONUS:

Chart, histogram

Description automatically generated

This is a histogram of employee salaries at this corporation. Out of 300,024 salaries, 126,271 salaries are between 40,000 and 45,000 dollars. This is 42.09% of the total salaries

Chart, bar chart

Description automatically generated

This is the averages of employee salaries by department. I see that only three departments have average salaries greater than 50,000. They are finance, sales, and marketing.