-- Exported from QuickDBD: https://www.quickdatabasediagrams.com/

-- NOTE! If you have used non-SQL datatypes in your design, you will have to change these here.

CREATE TABLE "titles" (

"title\_id" VARCHAR(50) NOT NULL,

"title" VARCHAR(200) NOT NULL,

"last\_updated" timestamp default localtimestamp NOT NULL,

CONSTRAINT "pk\_titles" PRIMARY KEY (

"title\_id"

)

);

CREATE TABLE "employees" (

"emp\_no" INT NOT NULL,

"emp\_title\_id" VARCHAR(50) NOT NULL,

"birth\_date" DATE NOT NULL,

"first\_name" VARCHAR(150) NOT NULL,

"last\_name" VARCHAR(200) NOT NULL,

"sex" VARCHAR(10) NOT NULL,

"hire\_date" DATE NOT NULL,

"last\_updated" timestamp default localtimestamp NOT NULL,

CONSTRAINT "pk\_employees" PRIMARY KEY (

"emp\_no"

)

);

CREATE TABLE "departments" (

"dept\_no" VARCHAR(50) NOT NULL,

"dept\_name" VARCHAR(250) NOT NULL,

"last\_updated" timestamp default localtimestamp NOT NULL,

CONSTRAINT "pk\_departments" PRIMARY KEY (

"dept\_no"

)

);

CREATE TABLE "dept\_manager" (

"dept\_manager\_id" serial NOT NULL,

"dept\_no" VARCHAR(50) NOT NULL,

"emp\_no" INT NOT NULL,

"last\_updated" timestamp default localtimestamp NOT NULL,

CONSTRAINT "pk\_dept\_manager" PRIMARY KEY (

"dept\_manager\_id"

)

);

CREATE TABLE "dept\_emp" (

"dept\_emp\_id" serial NOT NULL,

"emp\_no" INT NOT NULL,

"dept\_no" VARCHAR(50) NOT NULL,

"last\_updated" timestamp default localtimestamp NOT NULL,

CONSTRAINT "pk\_dept\_emp" PRIMARY KEY (

"dept\_emp\_id"

)

);

CREATE TABLE "salaries" (

"salary\_id" serial NOT NULL,

"emp\_no" INT NOT NULL,

"salary" INT NOT NULL,

"last\_updated" timestamp default localtimestamp NOT NULL,

CONSTRAINT "pk\_salaries" PRIMARY KEY (

"salary\_id"

)

);

ALTER TABLE "employees" ADD CONSTRAINT "fk\_employees\_emp\_title\_id" FOREIGN KEY("emp\_title\_id")

REFERENCES "titles" ("title\_id");

ALTER TABLE "dept\_manager" ADD CONSTRAINT "fk\_dept\_manager\_emp\_no" FOREIGN KEY("emp\_no")

REFERENCES "employees" ("emp\_no");

ALTER TABLE "dept\_manager" ADD CONSTRAINT "fk\_dept\_manager\_dept\_no" FOREIGN KEY("dept\_no")

REFERENCES "departments" ("dept\_no");

ALTER TABLE "dept\_emp" ADD CONSTRAINT "fk\_dept\_emp\_emp\_no" FOREIGN KEY("emp\_no")

REFERENCES "employees" ("emp\_no");

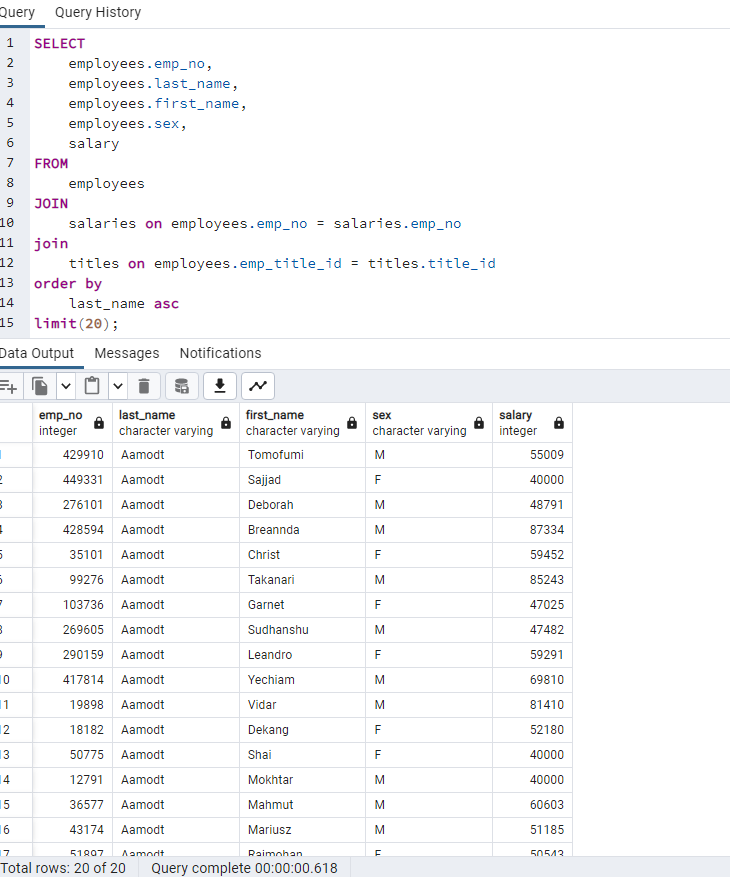
ALTER TABLE "dept\_emp" ADD CONSTRAINT "fk\_dept\_emp\_dept\_no" FOREIGN KEY("dept\_no")

REFERENCES "departments" ("dept\_no");

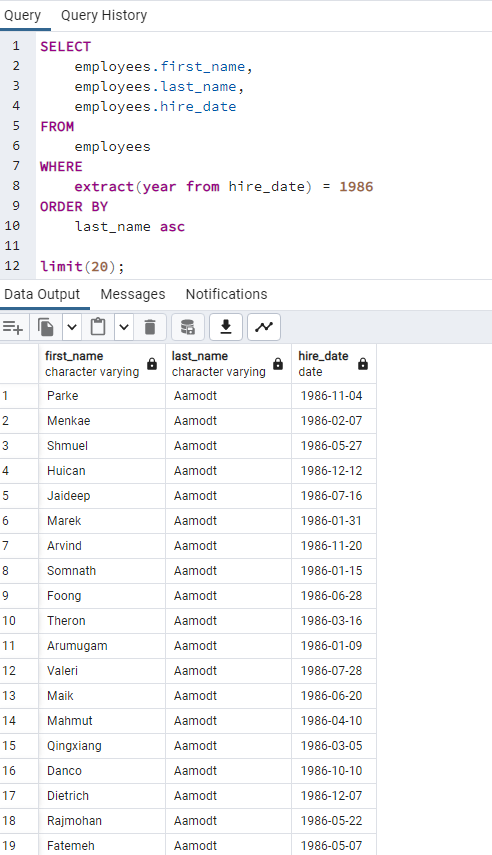
ALTER TABLE "salaries" ADD CONSTRAINT "fk\_salaries\_emp\_no" FOREIGN KEY("emp\_no")

REFERENCES "employees" ("emp\_no");

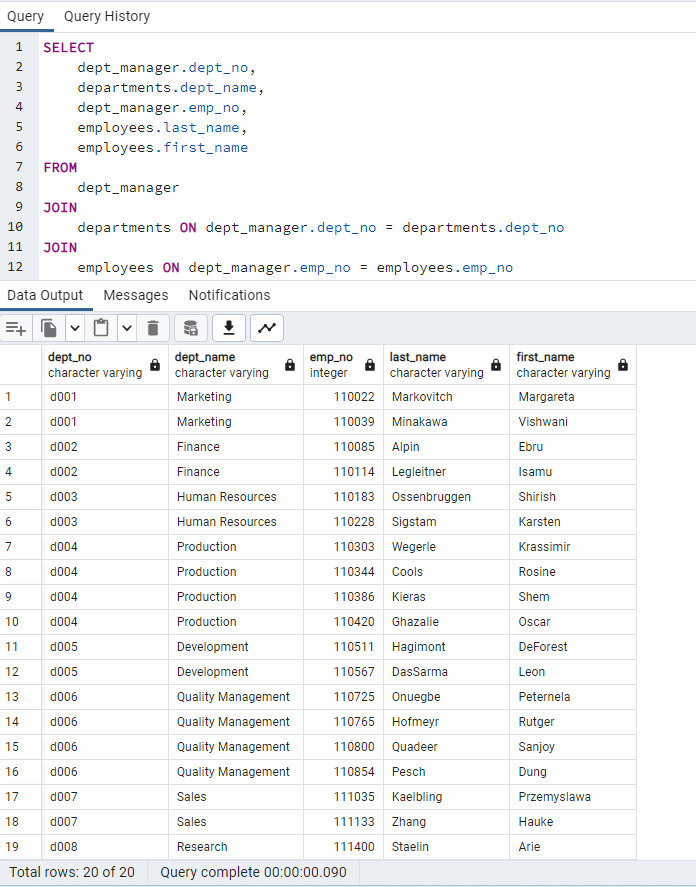
1)List the employee number, last name, first name, sex, and salary of each employee.



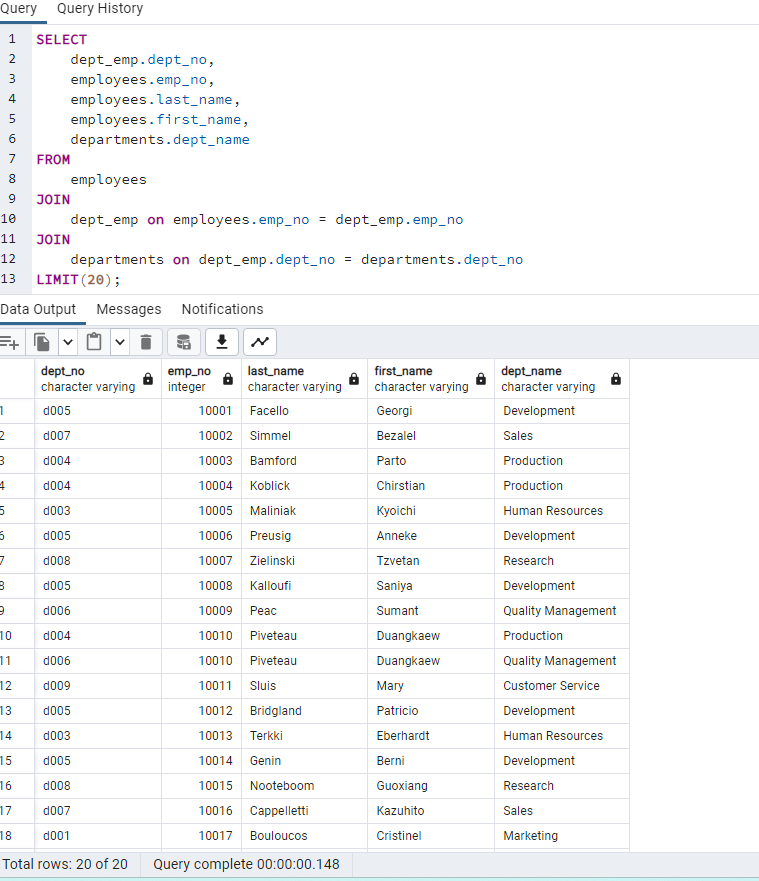
1. List the first name, last name, and hire date for the employees who were hired in 1986.



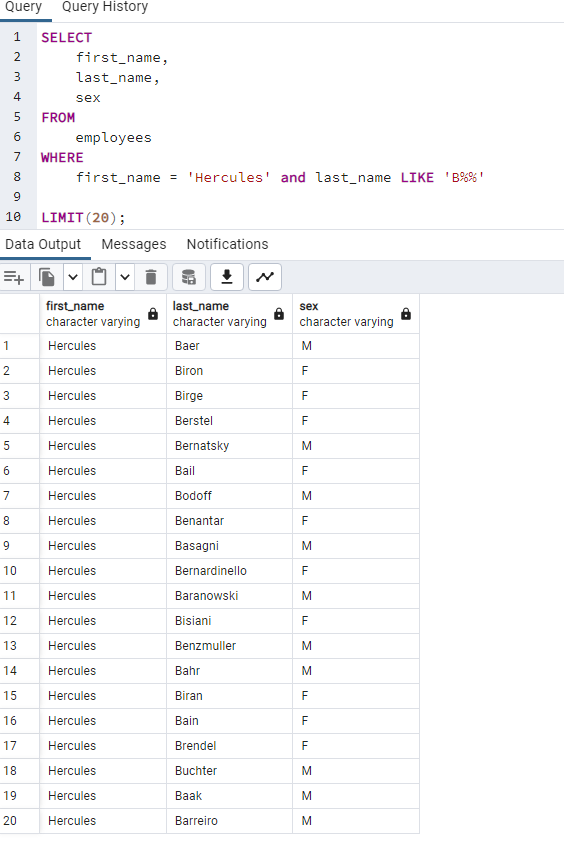
1. List the manager of each department along with their department number, department name, employee number, last name, and first name.

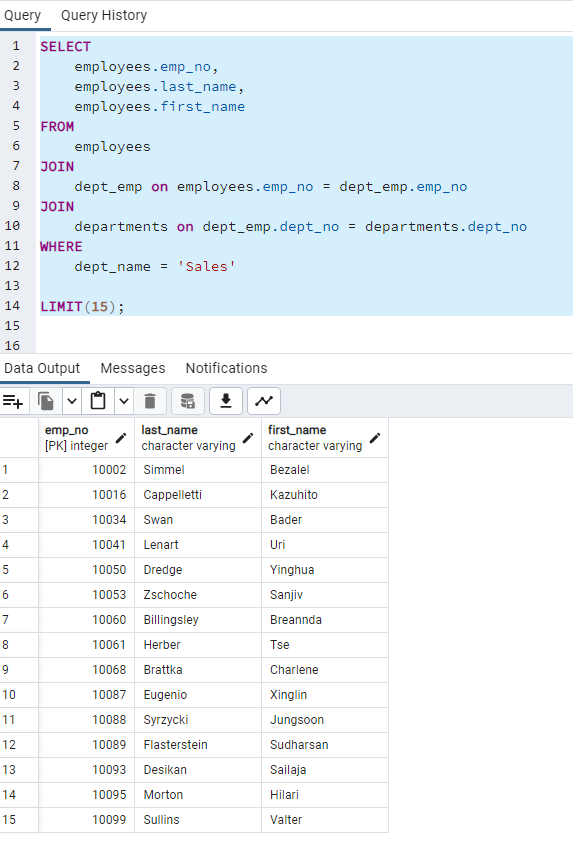


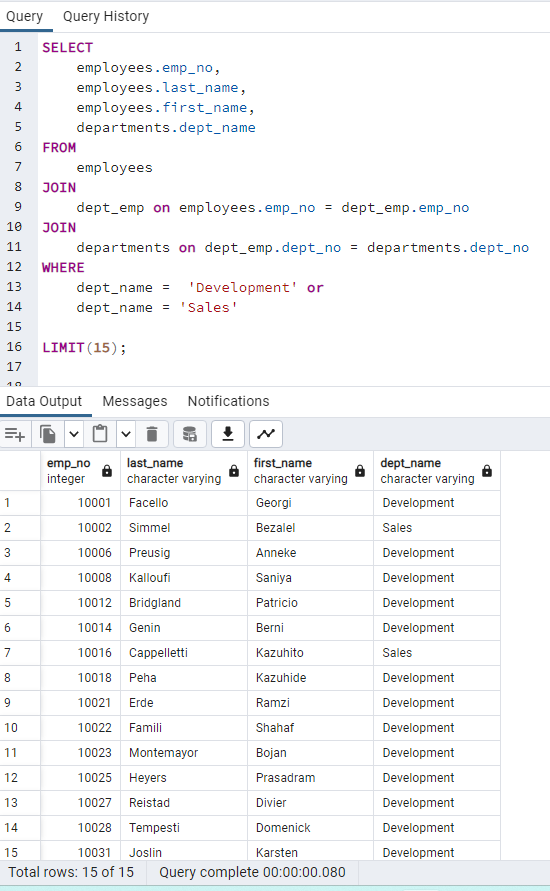
1. List the department number for each employee along with that employee’s employee number, last name, first name, and department name.



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.



1. List each employee in the Sales department, including their employee number, last name, and first name.
2. List each employee in the Sales and Development departments, including their employee number, last name, first name, and department name.



8)List the frequency counts, in descending order, of all the employee last names (that is, how many employees share each last name).

