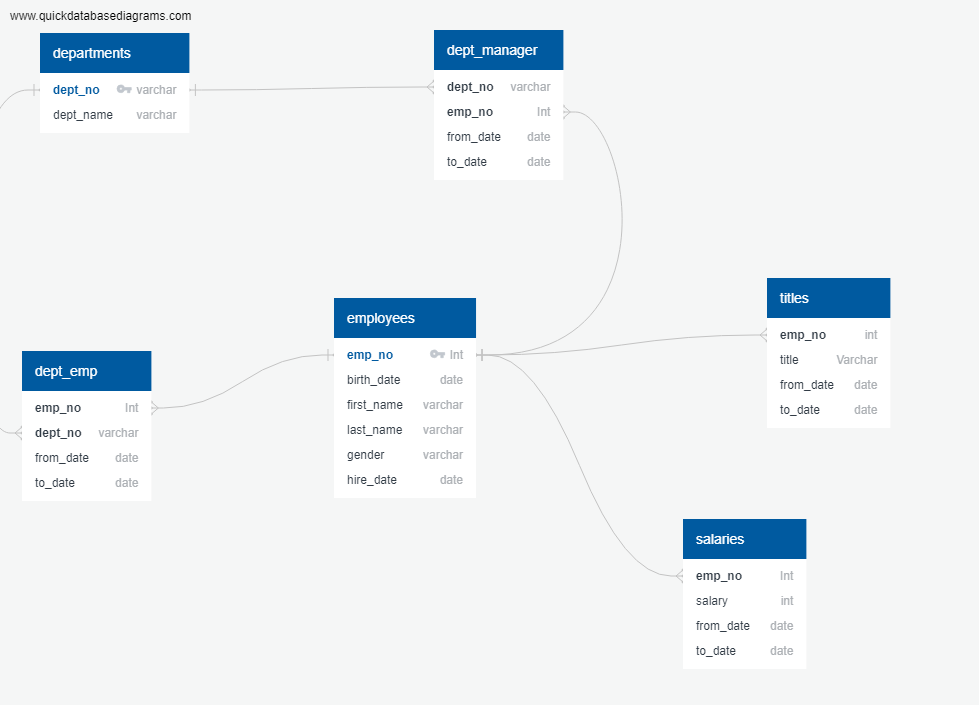
**Create an image file of your ERD.**



\* **Create a `.sql` file of your table schemata.**

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

-- Link to schema: https://app.quickdatabasediagrams.com/#/d/Hiv3ij

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

-- Modify this code to update the DB schema diagram.

-- To reset the sample schema, replace everything with

-- two dots ('..' - without quotes).

DROP TABLE IF EXISTS departments;

DROP TABLE IF EXISTS dept\_emp;

DROP TABLE IF EXISTS dept\_manager;

DROP TABLE IF EXISTS employees;

DROP TABLE IF EXISTS salaries;

DROP TABLE IF EXISTS titles;

CREATE TABLE "departments" (

"dept\_no" varchar NOT NULL,

"dept\_name" varchar NOT NULL,

CONSTRAINT "pk\_departments" PRIMARY KEY (

"dept\_no"

)

);

CREATE TABLE "dept\_emp" (

"emp\_no" Int NOT NULL,

"dept\_no" varchar NOT NULL,

"from\_date" date NOT NULL,

"to\_date" date NOT NULL

);

CREATE TABLE "dept\_manager" (

"dept\_no" varchar NOT NULL,

"emp\_no" Int NOT NULL,

"from\_date" date NOT NULL,

"to\_date" date NOT NULL

);

CREATE TABLE "employees" (

"emp\_no" Int NOT NULL,

"birth\_date" date NOT NULL,

"first\_name" varchar NOT NULL,

"last\_name" varchar NOT NULL,

"gender" varchar NOT NULL,

"hire\_date" date NOT NULL,

CONSTRAINT "pk\_employees" PRIMARY KEY (

"emp\_no"

)

);

CREATE TABLE "salaries" (

"emp\_no" Int NOT NULL,

"salary" int NOT NULL,

"from\_date" date NOT NULL,

"to\_date" date NOT NULL

);

CREATE TABLE "titles" (

"emp\_no" int NOT NULL,

"title" Varchar NOT NULL,

"from\_date" date NOT NULL,

"to\_date" date NOT NULL

);

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

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

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

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

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

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

ALTER TABLE "titles" ADD CONSTRAINT "fk\_titles\_emp\_no" FOREIGN KEY("emp\_no")

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

**\* Create a `.sql` file of your queries**.

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

select employees.emp\_no as "Employee Number",

employees.last\_name as "Last Name",

employees.first\_name as "First Name",

employees.gender as "Gender",

salaries.salary as "Salary"

from employees

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

2. List employees who were hired in 1986.

select

last\_name as "Last Name",

first\_name as "First Name",

hire\_date as "Hire Date"

from employees

where hire\_date between '1986-01-01' and '1987-01-01'

order by hire\_date asc;

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

dm.dept\_no as "Department Number",

d.dept\_name as "Department Name",

dm.emp\_no as "Employee Number",

e.last\_name as "Last Name",

e.first\_name as "First Name",

dm.from\_date as "Start Date",

dm.to\_date as "End Date"

from dept\_manager as dm

inner join departments as d

on dm.dept\_no =d.dept\_no

inner join employees as e

on dm.emp\_no = e.emp\_no;

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

select

e.emp\_no as "Emplpoyee Name",

e.last\_name as "Last Name",

e.first\_name as "First Name",

d.dept\_name as "Department Name"

from employees as e

inner join dept\_emp

on e.emp\_no = dept\_emp.emp\_no

inner join departments as d

on d.dept\_no =dept\_emp.dept\_no;

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

select first\_name as "First Name",

last\_name as "Last Name"

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

e.emp\_no as "Employee Number",

d.dept\_name as "Department Name",

e.last\_name as "Last Name",

e.first\_name as "First Name"

from employees as e

inner join dept\_emp as de

on e.emp\_no = de.emp\_no

inner join departments as d

on de.dept\_no = d.dept\_no

where 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

e.emp\_no as "Employee Number",

d.dept\_name as "Department Name",

e.last\_name as "Last Name",

e.first\_name as "First Name"

from employees as e

inner join dept\_emp as de

on e.emp\_no = de.emp\_no

inner join departments as d

on de.dept\_no = d.dept\_no

where dept\_name ='Development' or dept\_name = 'Sales';

8. In descending order, list the frequency count of employee last names, i.e., how many employees share each last name.

select last\_name as "Last Name",

count(last\_name) as "Frequency"

from employees

group by last\_name

order BY count(last\_name) desc;