**Analysis**

1)Research on employees of the corporation from the 1980s to 1990s with database of employees from the period are six csv files.

2) Designed tables to hold data in the CSVs, imported the CSVs into a SQL database, and queried the data using Python/Pandas/Jupyter Notebook.

3) **Data Modeling** - After inspecting the CSVs, sketched out an entity relationship diagram (ERD) of the tables.

4) **Data Engineering** - Using the ERD, I created a table schema for each of the CSV files. I specified data types, primary keys, foreign keys, and other constraints.

I then imported each CSV file into its corresponding SQL table.

5) **Data Analysis**

The following are a sample of the queries run:

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

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

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

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

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

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

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

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

6) **Generating a visualization of the data**

Imported the SQL database into Pandas. Using the Python SQL toolkit and Object Relational Mapper "SQLAlchemy", I used the create\_engine function to interact directly with the database using Jupyter Notebook.

Created bar graph visualization using Python plotting library Matplotlib.