In my submission folder, I am including the six data CSV files, QuickDBD Entity Relationship Diagram (ERD) image, QuickDBD pdf, QuickDBD txt, QuickDBD SQL file of table schemata, the queries SQL file, and the screenshots of the eight lists outputs.

During data modeling, I inspected the CSV files to create the ERD. The data engineering consisted of establishing three primary keys (emp\_no, dept\_no, and title\_id) and the foreign keys to ensure data quality. The emp\_no as a primary key means there is only one employee number per employee. I created the ERD establishing emp\_no, a unique column as a primary key in the Employees table and as a foreign key in dept\_emp, salaries, and dept\_manager tables to the primary key emp\_no in the Employees table. The dept\_no\_ as a primary key means only one department number per department. I established dept\_no, another unique column, as a primary key in the Departments table and as a foreign key in the dept\_manager and dept\_emp tables to the dept\_no in the Departments table. The title\_id as a primary key means only one title ID per title. Thus, I altered the employees' table by adding the column emp\_title\_id as a foreign key to the Titles table; that is, the value of title\_id in Employees matches the value of the primary key title\_id in Titles.

Next, I created the Postgres database named challeng9, imported the QuickDBD SQL file of table schemata, and ran the SQL query to create a table schema for each of the six CSV files populating all six tables' columns information into the corresponding SQL table.

Ultimately, I analyzed the data to build the responses to the eight lists, ran the queries, and saved the screenshots.

I received assistance from a tutor to alter the tables and establish the foreign keys. I followed Stack Overflow’s suggestion to ignore the last\_updated column using the command copy when importing the CSV files.