Postgres SQL Module

In this Module Working with Employee Database and used Postgres SQL (Relational Database Management system).

Worked on Data Modeling, Data Engineering and Data Analysis.

Used QuickDatabaseModeling to create Data Modeling. Did the Data engineering by creating table schema for each of the six CSV files, specifying data types, primary keys, foreign keys etc.

Did the Data analysis with finding insights by querying the database.

Q1: List the employee number, last name, first name, sex, and salary of each employee.

question1 screenshot

A screenshot of a computer

Description automatically generated

Q2: List the first name, last name, and hire date for the employees who were hired in 1986.

question 2 screen shotA screenshot of a computer

Description automatically generated

Q3: List the manager of each department along with their department number, department name, employee number, last name, and first name.

question3 screenshot

A screenshot of a computer

Description automatically generated

Q4: List the department number for each employee along with that employee’s employee number, last name, first name, and department name

Question4 screenshot

A screenshot of a computer

Description automatically generated

Q5: List first name, last name, and sex of each employee whose first name is Hercules and whose last name begins with the letter B

Question5 screenshot

A screenshot of a computer

Description automatically generated

Q6: List each employee in the Sales department, including their employee number, last name, and first name

Question6 screenshot

A screenshot of a computer

Description automatically generated

Q7: List each employee in the Sales and Development departments, including their employee number, last name, first name, and department name.

Question7 screenshot

A screenshot of a computer

Description automatically generated

Q8: List the frequency counts, in descending order, of all the employee last names (that is, how many employees share each last name)

Question8 screenshot

A screenshot of a computer

Description automatically generated