**Module 9 \_ Sql\_challenge**

1. **Employee.sql Schemas:** Under employee.sql file schemas of the following tables are created:
2. Employees table as **“employees”.**
3. Department manager as **“dept\_manager”.**
4. Departments “**departments”.**
5. Department employee as **“dept\_emp”.**
6. Titles as **“title\_id”.**
7. Salary as **“salaries”.**
8. **Data for the employees, dept\_manager, departments, dept\_emp, title\_id and salaries.**

**3. Employee.sql queries:** In this file,requiredcodes are written to answer the following quires:

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

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

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

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

5) List the first name, last name, and sex of each employee whose first name is Hercules and whose last name begins with the letter B.

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

7) 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).

1. **ERD Diagram** for the relationship among the six Entities **employees, dept\_manager, departments, dept\_emp, title\_id and salaries.**
2. **Bonus Activity in Jupiter Notebook :** Extracted data by SQL queries, converted data in Python data Frame, merged tables where required and finally analysed data.