**SQL HOMEWORK- QUERY**

**SELECT** employees.Emp\_no, last\_name, first\_name, gender, salary

**FROM** employees

**INNER** **JOIN** salaries **ON** salaries.emp\_no **=** employees.emp\_no

**SELECT** **\***

**FROM** employees

**WHERE** hire\_date **>** '1/1/1986' **AND** hire\_date **<** '1/1/1987'

**SELECT** departments.dept\_no, dept\_name, employees.emp\_no, last\_name, first\_name, from\_date, to\_date

**FROM** employees

**INNER** **JOIN** dept\_manager **ON** dept\_manager.emp\_no **=** employees.emp\_no

**INNER** **JOIN** departments **ON** departments.dept\_no **=** dept\_manager.dept\_no

**WHERE** to\_date **=** '1/1/9999'

**SELECT** employees.Emp\_no, last\_name, first\_name, dept\_name

**FROM** employees

**INNER** **JOIN** dept\_emp **ON** dept\_emp.emp\_no **=** employees.emp\_no

**INNER** **JOIN** departments **ON** departments.dept\_no **=** dept\_emp.dept\_no

**SELECT** **\*** **FROM** employees

**WHERE** first\_name **=** 'Hercules'

**AND** last\_name **LIKE** 'B%'

**SELECT** employees.Emp\_no, last\_name, first\_name, dept\_name

**FROM** employees

**INNER** **JOIN** dept\_emp **ON** dept\_emp.emp\_no **=** employees.emp\_no

**INNER** **JOIN** departments **ON** departments.dept\_no **=** dept\_emp.dept\_no

**WHERE** dept\_name **=** 'Sales'

**SELECT** employees.Emp\_no, last\_name, first\_name, dept\_name

**FROM** employees

**INNER** **JOIN** dept\_emp **ON** dept\_emp.emp\_no **=** employees.emp\_no

**INNER** **JOIN** departments **ON** departments.dept\_no **=** dept\_emp.dept\_no

**WHERE** dept\_name **=** 'Sales' **OR** dept\_name **=** 'Development'

**SELECT** last\_name, **Count**(last\_name) **AS** "Name Frequency"

**FROM** employees

**GROUP** **BY** last\_name

**ORDER** **BY** "Name Frequency" **DESC**

**SQL HOMEWORK SCHEMA**

**DROP** **TABLE** **IF** **EXISTS** departments;

**DROP** **TABLE** **IF** **EXISTS** employees;

**DROP** **TABLE** **IF** **EXISTS** salaries;

**DROP** **TABLE** **IF** **EXISTS** titles;

**DROP** **TABLE** **IF** **EXISTS** dept\_manager;

**DROP** **TABLE** **IF** **EXISTS** dept\_emp;

**CREATE** **TABLE** departments (

dept\_no **VARCHAR** (20)**UNIQUE**,

dept\_name **VARCHAR** (20),

**PRIMARY** **KEY** (dept\_no,dept\_name)

);

**CREATE** **TABLE** employees (

emp\_no **INT** **UNIQUE**,

birth\_date **timestamp** **without** **time** **zone** **NOT** **NULL**,

first\_name **VARCHAR**(45) **NOT** **NULL**,

last\_name **VARCHAR**(45) **NOT** **NULL**,

gender **VARCHAR**(2) **NOT** **NULL**,

hire\_date **timestamp** **without** **time** **zone** **NOT** **NULL**,

**PRIMARY** **KEY** (emp\_no,first\_name,last\_name)

);

**CREATE** **TABLE** salaries (

emp\_no **INT**,

salary **INT** **NOT** **NULL**,

from\_date **timestamp** **without** **time** **zone** **NOT** **NULL**,

to\_date **timestamp** **without** **time** **zone** **NOT** **NULL**,

**PRIMARY** **KEY** (emp\_no,from\_date)

);

**CREATE** **TABLE** titles (

emp\_no **INT**,

title **VARCHAR**(45),

from\_date **timestamp** **without** **time** **zone** **NOT** **NULL**,

to\_date **timestamp** **without** **time** **zone** **NOT** **NULL**,

**PRIMARY** **KEY** (emp\_no,title,from\_date)

);

**CREATE** **TABLE** dept\_manager (

emp\_no **INT**,

dept\_no **VARCHAR**,

from\_date **timestamp** **without** **time** **zone** **NOT** **NULL**,

to\_date **timestamp** **without** **time** **zone** **NOT** **NULL**,

**PRIMARY** **KEY** (dept\_no,emp\_no,from\_date),

**FOREIGN** **KEY** (dept\_no) **REFERENCES** departments(dept\_no),

**FOREIGN** **KEY** (emp\_no) **REFERENCES** employees(emp\_no)

);

**CREATE** **TABLE** dept\_emp (

emp\_no **INT**,

dept\_no **VARCHAR** (20),

from\_date **timestamp** **without** **time** **zone** **NOT** **NULL**,

to\_date **timestamp** **without** **time** **zone** **NOT** **NULL**,

**PRIMARY** **KEY** (emp\_no,dept\_no,from\_date),

**FOREIGN** **KEY** (dept\_no) **REFERENCES** departments(dept\_no),

**FOREIGN** **KEY** (emp\_no) **REFERENCES** employees(emp\_no)

);

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