create table titles (

title\_id VARCHAR(20),

title VARCHAR(20),

PRIMARY KEY (title\_id)

);

CREATE TABLE employees (

emp\_no INT,

emp\_title\_id Varchar(20),

birth\_date Varchar(20),

first\_name Varchar(20),

last\_name Varchar(20),

sex Varchar(20),

hire\_date Varchar(20),

FOREIGN KEY (emp\_title\_id) REFERENCES titles(title\_id),

PRIMARY KEY (emp\_no)

);

create table salaries (

emp\_no INT,

salary INT,

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

PRIMARY KEY (emp\_no)

);

CREATE table Departments(

dept\_no VARCHAR(10),

dept\_name VARCHAR(20),

PRIMARY KEY (dept\_no)

);

CREATE TABLE dept\_emp(

emp\_no INT,

dept\_no VARCHAR(20),

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

FOREIGN KEY (dept\_no) REFERENCES Departments(dept\_no)

);

CREATE TABLE dept\_manager(

dept\_no VARCHAR(20),

emp\_no INT,

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

FOREIGN KEY (dept\_no) REFERENCES Departments(dept\_no)

);

#1.

SELECT employees.first\_name, employees.last\_name, employees.emp\_no, employees.sex, salaries.salary

FROM employees inner join salaries on employees.emp\_no=salaries.emp\_no

#2.

SELECT \* FROM employees WHERE hire\_date BETWEEN '01/01/86' AND '31/12/86'

ORDER By emp\_no;

#3.

SELECT dept\_manager.dept\_no, departments.dept\_name, dept\_manager.emp\_no, employees.last\_name, employees.first\_name

FROM dept\_manager

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

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

#4.

SELECT dept\_emp.emp\_no, employees.last\_name, employees.first\_name, departments.dept\_name

FROM dept\_emp

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

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

#5.

SELECT first\_name, last\_name FROM employees WHERE first\_name = 'Hercules' AND last\_name LIKE 'B%'

#6.

SELECT dept\_emp.emp\_no, employees.last\_name, employees.first\_name, departments.dept\_name

FROM dept\_emp

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

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

WHERE departments.dept\_name = 'Sales';

#7.

SELECT dept\_emp.emp\_no, employees.last\_name, employees.first\_name, departments.dept\_name

FROM dept\_emp

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

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

WHERE departments.dept\_name = 'Sales' OR departments.dept\_name = 'Development';

#8.

SELECT last\_name, COUNT(last\_name)

FROM employees

GROUP BY last\_name

HAVING COUNT(\*) > 1

ORDER BY last\_name DESC;