ALTER TABLE departments

ADD dept\_no VARCHAR (5) NOT NULL,

ADD dept\_name VARCHAR (20) NOT NULL

;

SELECT \*

FROM departments;

ALTER TABLE dept\_emp

ADD emp\_no INTEGER NOT NULL,

ADD dept\_no VARCHAR (5) NOT NULL

;

SELECT \* FROM departments

ALTER TABLE dept\_manager

ADD dept\_no VARCHAR (10) NOT NULL,

ADD emp\_no INTEGER NOT NULL

;

SELECT \* from dept\_emp

ALTER TABLE employees

ADD emp\_no INTEGER NOT NULL,

ADD emp\_title\_id VARCHAR (10) NOT NULL,

ADD birth\_date DATE,

ADD first\_name VARCHAR (14) NOT NULL,

ADD last\_name VARCHAR (14) NOT NULL,

ADD sex VARCHAR (10) NOT NULL,

ADD hire\_date DATE

;

ALTER TABLE employees

ALTER COLUMN sex VARCHAR (10) NOT NULL

;

ALTER TABLE employees

ALTER COLUMN sex SET DEFAULT 0;

ALTER TABLE employees ALTER COLUMN sex TYPE VARCHAR;

SELECT

CAST ('SEX' AS VARCHAR);

ALTER TABLE employees

ADD emp\_no INTEGER NOT NULL,

ADD emp\_title\_id VARCHAR (10) NOT NULL,

ADD birth\_date DATE,

ADD first\_name VARCHAR (14) NOT NULL,

ADD last\_name VARCHAR (14) NOT NULL,

ADD sex VARCHAR (10) NOT NULL,

ADD hire\_date DATE

;

ALTER TABLE employees

ADD emp\_no INTEGER NOT NULL,

ADD emp\_title\_id VARCHAR (10) NOT NULL,

ADD birth\_date DATE,

ADD first\_name VARCHAR (12) NOT NULL,

ADD last\_name VARCHAR (12) NOT NULL,

ADD sex VARCHAR (10) NOT NULL,

ADD hire\_date DATE

;

ALTER TABLE employees

ADD emp\_no INTEGER NOT NULL,

ADD emp\_title\_id VARCHAR (10) NOT NULL,

ADD birth\_date DATE,

ADD first\_name VARCHAR (15) NOT NULL,

ADD last\_name VARCHAR (15) NOT NULL,

ADD sex VARCHAR (5) NOT NULL,

ADD hire\_date DATE

;

ALTER TABLE employees

ADD emp\_no INTEGER NOT NULL,

ADD emp\_title\_id VARCHAR (10) NOT NULL,

ADD birth\_date DATE,

ADD first\_name VARCHAR (20) NOT NULL,

ADD last\_name VARCHAR (20) NOT NULL,

ADD sex VARCHAR (10) NOT NULL,

ADD hire\_date DATE

;

ALTER TABLE salaries

ADD emp\_no INTEGER NOT NULL,

ADD salary MONEY

;

ALTER TABLE titles

ADD title\_id VARCHAR (5) NOT NULL,

ADD title VARCHAR (20) NOT NULL

;

--Question 2

SELECT first\_name, last\_name, hire\_date

FROM EMPLOYEES

WHERE hire\_date BETWEEN '1986-01-01' AND '1986-12-31';

--Question 5

SELECT first\_name, last\_name, sex

FROM EMPLOYEES

WHERE first\_name = 'Hercules'

AND last\_name LIKE 'B%';

--Question 8

SELECT last\_name AS "LAST NAME",

COUNT(last\_name) AS "FREQUENCY OF EMPLOYESS LAST NAMES"

FROM EMPLOYEES

GROUP BY last\_name

ORDER BY

COUNT(last\_name) DESC;

--Question 1

select e.emp\_no, e.last\_name, e.first\_name, e.sex, s.salary

from employees as e

left join salaries as s

on e.emp\_no = s.emp\_no;

--Question 3

select d.dept\_no, d.dept\_name, m.emp\_no, e.last\_name, e.first\_name

from departments as d

left join dept\_manager as m

on d.dept\_no = m.dept\_no

left join employees as e

on m.emp\_no = e.emp\_no;

--Question 4

select e.emp\_no, e.last\_name, e.first\_name, d.dept\_name

from dept\_emp as de

left join departments as d

on de.dept\_no = d.dept\_no

left join employees as e

on de.emp\_no = e.emp\_no;

--Question 6

select e.emp\_no, e.last\_name, e.first\_name, d.dept\_name

from employees as e

left join dept\_emp as de on

e.emp\_no = de.emp\_no

left join departments as d on

de.dept\_no = d.dept\_no

where d.dept\_name = 'Sales';

--Question 7

select e.emp\_no, e.last\_name, e.first\_name, d.dept\_name

from employees as e

left join dept\_emp as de on

e.emp\_no = de.emp\_no

left join departments as d on

de.dept\_no = d.dept\_no

where d.dept\_name = 'Sales' or d.dept\_name = 'Development';