**ER\_diagram quary**

dept\_emp

-

emp\_no FK >- Employees.emp\_no

dept\_no FK >- departments.dept\_no

departments

-

dept\_no FK >- dept\_manager.dept\_no

dept\_name

dept\_manager

-

dept\_no pk

emp\_no

Employees

-

emp\_no int PK

emp\_title\_id FK >- titles.title\_id

birth\_date

first\_name

last\_name

sex

hire date

salaries

-

emp\_no FK >- Employees.emp\_no

salary

titles

-

title\_id pk

title

**Inserting a files**

INSERT INTO departments (dept\_no, dept\_name)

VALUES

('d001', 'Marketing'),

('d002', 'Finance'),

('d003', 'HumanResources'),

('d004', 'production'),

('d005', 'development'),

('d006', 'Quality Management'),

('d007', 'Sales'),

('d008', 'Research'),

('d009','Customer Service')

;

**Alter table**

ALTER TABLE dept\_emp ADD CONSTRAINT compdept

PRIMARY KEY (emp\_no, dept\_no);

Qustion and answer

titles

INSERT INTO departments (dept\_no, dept\_name)

VALUES

('d001', 'Marketing'),

('d002', 'Finance'),

('d003', 'Human\_Resources'),

('d004', 'production'),

('d005', 'development'),

('d006', 'Quality\_Management'),

('d007', 'Sales'),

('d008', 'Research'),

('d009','Customer\_Service')

;

INSERT INTO departments (dept\_no, dept\_name)

VALUES

('d001', 'Marketing'),

('d002', 'Finance'),

('d003', 'Human Resources'),

('d004', 'production'),

('d005', 'development'),

('d006', 'Quality Management'),

('d007', 'Sales'),

('d008', 'Research'),

('d009','Customer Service')

;

TRUNCATE TABLE departments

SELECT \*

FROM departments

ALTER TABLE dept\_emp ADD CONSTRAINT compdept

PRIMARY KEY (emp\_no, dept\_no);

SELECT compdept

FROM dept\_emp

/\* 1, List the employee number, last name, first name, sex,

and salary of each employee.\*/

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

FROM employees INNER JOIN salaries

ON CAST (employees.emp\_no AS integer) = salaries.emp\_no

--LIMIT 10

/\* 2, List the first name, last name, and hire date

for the employees who were hired in 1986.\*/

SELECT \*

FROM employees

WHERE EXTRACT(YEAR FROM hire\_date) = '1986'

LIMIT 10

/\*

3, List the manager of each department along with their department

number, department name, employee number, last name, and first name.

\*/

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

FROM dept\_manager AS dm INNER JOIN employees AS e

ON CAST (e.emp\_no AS integer) = dm.emp\_no

INNER JOIN departments AS d

ON dm.dept\_no = d.dept\_no

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

FROM employees INNER JOIN dept\_emp

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

INNER JOIN departments

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

--GROUP BY dept\_emp.dept\_no, dept\_name, dept\_emp.emp\_no, last\_name, employees.first\_name

ORDER BY 1

--dept\_name, dept\_emp.dept\_no, dept\_name, dept\_emp.emp\_no, last\_name, employees.first\_name

--, dept\_emp.emp\_no, last\_name, employees.first\_name, dept\_emp.dept\_no

--GROUP BY dept\_emp.dept\_no, dept\_name, dept\_emp.emp\_no, last\_name, employees.first\_name

---LIMIT 10

SELECT \*

FROM employees INNER JOIN dept\_emp

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

INNER JOIN departments

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

GROUP BY dept\_emp.dept\_no

SELECT \*

FROM dept\_manager AS dm LEFT JOIN departments AS d

ON dm.dept\_no = d.dept\_no

LEFT JOIN dept\_emp AS de

ON d.dept\_no = de.dept\_no

RIGHT JOIN employees AS e

ON de.emp\_no = e.emp\_no

ORDER BY 1

LIMIT 10

\*/

/\* 4, List the department number for each employee along with that employee’s

employee number, last name, first name, and department name.

- table nedded employees, dept\_emp, department

\*/

SELECT e.emp\_no, last\_name, first\_name, de.dept\_no, dept\_name

FROM employees as e INNER JOIN dept\_emp AS de

ON e.emp\_no = de.emp\_no

JOIN departments AS d

ON de.dept\_no = d.dept\_no

LIMIT 10

/\*

5, List first name, last name, and sex of each employee whose first name is

Hercules and whose last name begins with the letter B.

\*/

SELECT first\_name, last\_name, sex

FROM employees

WHERE first\_name = 'Hercules'

AND last\_name LIKE 'B%';

/\*6,

List each employee in the Sales department,

including their employee number, last name, and first name.

\*/

SELECT e.emp\_no, last\_name, first\_name

FROM employees AS e INNER JOIN dept\_emp AS de

ON e.emp\_no = de.emp\_no

INNER JOIN departments AS d

ON de.dept\_no = d.dept\_no

WHERE dept\_name = 'Sales'

/\*

7, List each employee in the Sales and Development departments,

including their employee number, last name, first name, and department name.

\*/

SELECT e.emp\_no, last\_name, first\_name, dept\_name

FROM employees as e INNER JOIN dept\_emp AS de

ON e.emp\_no = de.emp\_no

JOIN departments AS d

ON de.dept\_no = d.dept\_no

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