Q1: List the employee number, last name, first name, sex, and salary of each employee:

Answer 1:

Select "Employees".emp\_no,

"Employees".first\_name,

"Employees".last\_name,

"Employees".sex,

"Salaries".salary

From "Employees"

Inner Join "Salaries"

on "Salaries".emp\_no = "Employees".emp\_no

Q2: select "Employees".first\_name,

Answer 2:

"Employees".last\_name,

"Employees".hire\_date

from "Employees"

WHERE EXTRACT(YEAR FROM hire\_date) = 1986

Q3: List the manager of each department along with their department number, department name, employee number, last name, and first name.

Answer 3:

select "Dept\_manager".emp\_no,

"Dept\_manager".dept\_no,

"Departments".dept\_name,

"Employees".first\_name,

"Employees".last\_name,

"Titles".title

from "Dept\_manager"

inner join "Departments"

on "Dept\_manager".dept\_no = "Departments".dept\_no

inner join "Employees"

on "Employees".emp\_no = "Dept\_manager".emp\_no

inner join "Titles"

on "Titles".title\_id = "Employees".emp\_title\_id

Q4: List the department number for each employee along with that employee’s employee number, last name, first name, and department name.

Answer 4:

select "Employees".emp\_no,

"Employees".first\_name,

"Employees".last\_name,

"Dept\_emp".dept\_no,

"Departments".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

Q5: List first name, last name, and sex of each employee whose first name is Hercules and whose last name begins with the letter B.

Answer 5:

SELECT "Employees".first\_name,

"Employees".last\_name,

"Employees".sex

FROM "Employees"

WHERE "Employees".first\_name = 'Hercules' and

"Employees".last\_name LIKE 'B%'

Q6: List each employee in the Sales department, including their employee number, last name, and first name.

Answer 6:

SELECT "Dept\_emp".emp\_no,

"Departments".dept\_name,

"Employees".last\_name,

"Employees".first\_name

FROM "Dept\_emp"

INNER JOIN "Departments"

on "Departments".dept\_no = "Dept\_emp".dept\_no

INNER JOIN "Employees"

on "Dept\_emp".emp\_no = "Employees".emp\_no

WHERE "Dept\_emp".dept\_no IN (SELECT "Departments".dept\_no from "Departments"

WHERE "Departments".dept\_name = 'Sales');

Q7: List each employee in the Sales and Development departments, including their employee number, last name, first name, and department name.

Answer 7:

SELECT "Employees".emp\_no,

"Employees".last\_name,

"Employees".first\_name,

"Departments".dept\_name

FROM "Employees"

INNER JOIN "Dept\_emp"

on "Employees".emp\_no = "Dept\_emp".emp\_no

INNER JOIN "Departments"

on "Departments".dept\_no = "Dept\_emp".dept\_no

WHERE "Departments".dept\_name = 'Sales' OR "Departments".dept\_name = 'Development'

Q8: List the frequency counts, in descending order, of all the employee last names (that is, how many employees share each last name).

Answer 8:

SELECT "Employees".last\_name,

COUNT("Employees".last\_name)as frequency

FROM "Employees"

GROUP BY "Employees".last\_name

ORDER BY frequency Desc