-- \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

-- query(c): What is the average wage each department pays its male and female employees?

-- \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

select m.dept\_name, m.msal as "Average Male Salary", f.fsal as "Average female Salary"

from

(select dpt.name as dept\_name, m2.m\_sal as msal

from

(select d.name as dept\_name, avg(salary) as m\_sal

from employees e, departments d

where e.dept\_id = d.dept\_id

and sex = 'M'

group by d.name) m2 full join

departments dpt

on dpt.name = m2.dept\_name) m full join

(select dpt.name as dept\_name, f2.f\_sal as fsal

from

(select d.name as dept\_name, avg(salary) as f\_sal

from employees e, departments d

where e.dept\_id = d.dept\_id

and sex = 'F'

group by d.name) f2 full join

departments dpt

on dpt.name = f2.dept\_name) f

on m.dept\_name = f.dept\_name;

***Can be simplified as:***

With m2 as select d.name as dept\_name, avg(salary) as m\_sal

from employees e, departments d

where e.dept\_id = d.dept\_id

and sex = 'M'

group by d.name

With m as select dpt.name as dept\_name, m2.m\_sal as msal

from m2 full join

departments dpt

on dpt.name = m2.dept\_name

With f2 as select d.name as dept\_name, avg(salary) as f\_sal

from employees e, departments d

where e.dept\_id = d.dept\_id

and sex = 'F'

group by d.name

With f as select dpt.name as dept\_name, f2.f\_sal as fsal

from f2 full join

departments dpt

on dpt.name = f2.dept\_name

Select m.dept\_name, m.msal as "Average Male Salary", f.fsal as "Average female Salary"

from m full join f

on m.dept\_name = f.dept\_name;