## the male and female employees working in the company each year, starting from 1990.#

select year(d.from\_date) as calender\_year,

e.gender,

count(e.emp\_no) as number\_of\_employee

from t\_employees as e

join t\_dept\_emp as d on d.emp\_no= e.emp\_no

group by e.gender, calender\_year

having calender\_year >= 1990;

##Compare the number of male managers to the number of female managers from different departments for each year, starting from 1990.#

SELECT

d.dept\_name,

ee.gender,

dm.emp\_no,

dm.from\_date,

dm.to\_date,

e.calendar\_year,

CASE

WHEN

YEAR(dm.to\_date) >= e.calendar\_year

AND YEAR(dm.from\_date) <= e.calendar\_year

THEN

1

ELSE 0

END AS active

FROM

(SELECT

YEAR(hire\_date) AS calendar\_year

FROM

t\_employees

GROUP BY calendar\_year) e

CROSS JOIN

t\_dept\_manager AS dm

JOIN

t\_departments as d ON dm.dept\_no = d.dept\_no

JOIN

t\_employees AS ee ON ee.emp\_no = dm.emp\_no

ORDER BY dm.emp\_no , calendar\_year;

/\*Compare the average salary of female versus male employees in the entire company until year 2002, and add a filter allowing you to see that per each department.\*/

SELECT

e.gender,

d.dept\_name,

ROUND(AVG(s.salary), 2) AS salary,

YEAR(s.from\_date) AS calendar\_year

FROM

t\_salaries AS s

JOIN

t\_employees AS e ON e.emp\_no = s.emp\_no

JOIN

t\_dept\_emp AS de ON de.emp\_no = e.emp\_no

JOIN

t\_departments AS d ON d.dept\_no = de.dept\_no

GROUP BY d.dept\_no , e.gender , calendar\_year

HAVING calendar\_year <= 2002

ORDER BY d.dept\_no;

/\*Create an SQL stored procedure that will allow you to obtain the average male and female salary per department within a certain salary range. Let this range be defined by two values the user can insert when calling the procedure.\*/

delimiter $$

create procedure filter\_salary (in p\_min\_salary float, in p\_max\_salary float)

begin

select

e.gender, d.dept\_name, avg(s.salary) as avg\_salary

from

t\_salaries as s

join

t\_employees as e on s.emp\_no= e.emp\_no

join

t\_dept\_emp as de on de.emp\_no =e.emp\_no

join

t\_departments as d on d.dept\_no=de.dept\_no

where s.salary between p\_min\_salary and p\_max\_salary

group by d.dept\_no, e.gender;

end$$

delimiter ;

call filter\_salary(50000, 90000);

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