**List the first name, last name, department name and current job title of all staff. (1 mark)**

SELECT

first\_name, last\_name, job\_title, department\_name

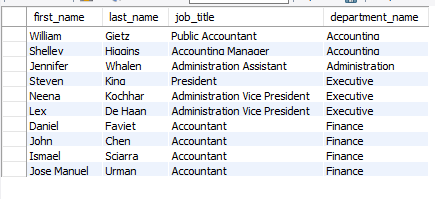
FROM

(staff

LEFT JOIN departments ON staff.department\_id = departments.department\_id)

NATURAL JOIN

jobs;



107 row(s) Returned

**List every country name and the number of staff in each country. Order the result by country name. (1 mark)**

SELECT

countries.country\_name, COUNT(staff\_id) AS Count

FROM

staff

NATURAL JOIN

departments

NATURAL JOIN

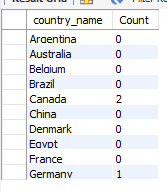
locations

RIGHT OUTER JOIN

countries ON locations.country\_id = countries.country\_id

GROUP BY countries.country\_id

ORDER BY country\_name



25 row(s) returned

**Who has spent the shortest amount of time in a job? Print their name (first and last name), how long the job lasted in days and the job title. (1 mark)**

SELECT

staff.first\_name,

staff.last\_name,

DATEDIFF(job\_history.end\_date,

job\_history.start\_date),

jobs.job\_title

FROM

job\_history

NATURAL JOIN

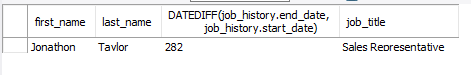
staff,

jobs

WHERE

staff.staff\_id = job\_history.staff\_id

AND job\_history.job\_id = jobs.job\_id



1 row(s) returned

**For all supervisors who supervise five or more staff, list their first name, last name, job title, and the number of staff members they supervise. (2 marks)**

SELECT

supervisors.first\_name,

supervisors.last\_name,

job\_title,

COUNT(staff.staff\_id) AS number\_of\_staff\_supervised

FROM

staff supervisors

INNER JOIN

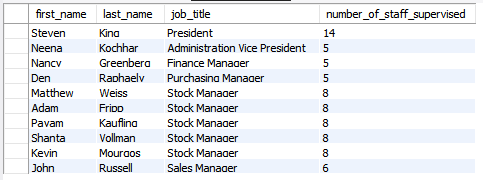
staff ON supervisors.staff\_id = staff.supervisor\_id

INNER JOIN

jobs ON supervisors.job\_id = jobs.job\_id

GROUP BY supervisors.staff\_id

HAVING number\_of\_staff\_supervised > 4;



14 row(s) returned

**Print department names of departments that currently have neither a manager nor any staff. (2 marks)**

SELECT

department\_name

FROM

departments

WHERE

department\_id NOT IN (SELECT

departments.department\_id

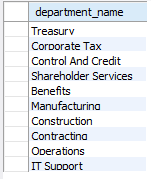
FROM

departments,

staff

WHERE

staff.department\_id = departments.department\_id)



16 row(s) returned

**Which region has the most locations? Print the region name, as well as the total number of locations in that region. (2 marks)**

SELECT

regions.region\_name, COUNT(regions.region\_name)

FROM

(locations

NATURAL JOIN countries),

regions

WHERE

countries.region\_id = regions.region\_id

GROUP BY region\_name

ORDER BY COUNT(regions.region\_name) DESC

LIMIT 1



1 row(s) returned

**Some staff members are eligible for a commission. Find the names of staff who will exceed the maximum salary for their job title if they achieve their commission. The calculation of a staff member’s total income if the commission is achieved is their salary multiplied by the commission percent and added onto their original salary. List the staff member’s first name, last name and the amount by which they will exceed the maximum salary for their current job role. Order the results from the highest amount to lowest. (2 marks)**

SELECT

staff.first\_name,

staff.last\_name,

jobs.job\_title,

(staff.salary + (staff.salary \* commission\_pct) - max\_salary) AS exceeding\_salary

FROM

staff

NATURAL JOIN

jobs

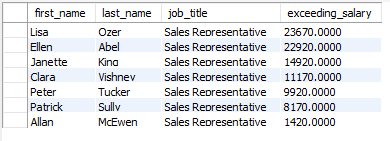
WHERE

staff.job\_id = jobs.job\_id

AND staff.commission\_pct IS NOT NULL

AND staff.salary + (staff.salary \* commission\_pct) > max\_salary

ORDER BY exceeding\_salary DESC



7 row(s) returned

**List the cities, country names and region names for cities outside the United States of America and Europe where no staff work. (3 marks)**

SELECT

city, country\_name, region\_name

FROM

locations

NATURAL JOIN

countries

NATURAL JOIN

regions

WHERE

location\_id NOT IN (SELECT

location\_id

FROM

staff

NATURAL JOIN

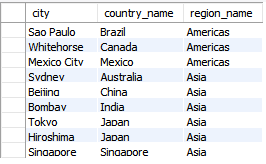
departments

NATURAL JOIN

locations)

AND country\_name != 'United States of America'

AND region\_name != 'Europe'



9 row(s) returned

**Print job titles, the date the jobs ended, and the current manager’s first and last name for all jobs that ended in 2006 which are currently not managed by Steven King. (3 marks)**

SELECT

job\_title, end\_date, first\_name, last\_name

FROM

job\_history

NATURAL JOIN

departments,

jobs,

staff

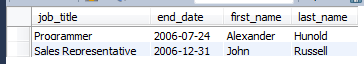
WHERE

YEAR(end\_date) = '2006'

AND manager\_id != 100

AND jobs.job\_id = job\_history.job\_id

AND manager\_id = staff.staff\_id



2 row(s) returned

**Print the first name, last name and current salary for all staff who held more than one job position prior to their current position, and whose current salary is below the 3 INFO20003 A2-S1-2018 average value of maximum salaries for all positions they held in the past prior to their current position. (3 marks)**

SELECT

first\_name, last\_name, salary

FROM

job\_history,

jobs,

staff

WHERE

staff.staff\_id = job\_history.staff\_id

AND job\_history.job\_id = jobs.job\_id

GROUP BY job\_history.staff\_id

HAVING salary < AVG(max\_salary)



2 row(s) returned