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

first_name	last_name	job_title	department_nam
William	Gietz	Public Accountant	Accountina
Shellev	Higgins	Accounting Manager	Accountina
Jennifer	Whalen	Administration Assistant	Administration
Steven	Kina	President	Executive
Neena	Kochhar	Administration Vice President	Executive
Lex	De Haan	Administration Vice President	Executive
Daniel	Faviet	Accountant	Finance
John	Chen	Accountant	Finance
Ismael	Sciarra	Accountant	Finance
Jose Manuel	Urman	Accountant	Finance

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
    country_name Count
   Argentina
   Australia 0
   Belgium 0
Brazil 0
   Canada 2
China 0
   Denmark 0
             0
   Eavot
   France
   Germany 1
```

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
                           DATEDIFF(job_history.end_date,
                last_name
                                                        job_title
     first_name
                                 job_history.start_date)
    Jonathon
                Taylor
                                                        Sales Representative
```

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;
```

first_name	last_name	job_title	number_of_staff_supervised
Steven	Kina	President	14
Neena	Kochhar	Administration Vice President	5
Nancv	Greenbera	Finance Manager	5
Den	Raphaelv	Purchasing Manager	5
Matthew	Weiss	Stock Manager	8
Adam	Fripp	Stock Manager	8
Pavam	Kaufling	Stock Manager	8
Shanta	Vollman	Stock Manager	8
Kevin	Mourgos	Stock Manager	8
John	Russell	Sales Manager	6

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)
```

department_name
Treasurv
Corporate Tax
Control And Credit
Shareholder Services
Benefits
Manufacturing
Construction
Contracting
Operations
IT Support

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

```
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

region_name COUNT(regions.region_name)

Europe 9
```

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
```

first_name	last_name	job_title	exceeding_salary
Lisa	Ozer	Sales Representative	23670.0000
Ellen	Abel	Sales Representative	22920.0000
Janette	Kina	Sales Representative	14920.0000
Clara	Vishnev	Sales Representative	11170.0000
Peter	Tucker	Sales Representative	9920.0000
Patrick	Sullv	Sales Representative	8170.0000
Allan	McEwen	Sales Representative	1420.0000

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'
```

city	country_name	region_name
Sao Paulo	Brazil	Americas
Whitehorse	Canada	Americas
Mexico City	Mexico	Americas
Svdnev	Australia	Asia
Beitina	China	Asia
Bombay	India	Asia
Tokvo	Japan	Asia
Hiroshima	Japan	Asia
Singapore	Singapore	Asia

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)



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)</pre>
    first_name last_name salary
    Jonathon Taylor
                       86000.00
  Jennifer Whalen 44000.00
2 row(s) returned
```