SQL Commands Assessment

Q1) WAQ to display second highest salary in HR schema.

select max(salary) from employees where salary < (select max(salary) from employees);

```
   max
----------
 17000.00
(1 row)
```

Q2) WAQ to display name of employee who is earning maximum in his/her department.

select department_id, first_name, salary from employees d where salary = (select max(salary) from employees where department_id = d.department_id);

```
 department_id | first_name |  salary
---------------+------------+----------
        90 | Steven     | 24000.00
        60 | Alexander  |  9000.00
       100 | Nancy      | 12000.00
```

```
 30 | Den      | 11000.00
 50 | Adam     |  8200.00
 80 | John     | 14000.00
 10 | Jennifer |  4400.00
 20 | Michael  | 13000.00
 40 | Susan    |  6500.00
 70 | Hermann  | 10000.00
110 | Shelley  | 12000.00
```
(11 rows)

Q3) WAQ to display employees count who are working from same location.

select l.city, count(*) from employees e, locations l, departments d where e.department_id = d.department_id and d.location_id = l.location_id group by(l.location_id);

```
    city        | count
--------------------+-------
 Toronto            |    2
 South San Francisco |   45
 Oxford             |   34
 London             |    1
 Munich             |    1
 Seattle            |   18
 Southlake          |    5
```

(7 rows)

Q4) WAQ to display number of employees joined year wise.

select to_char(hire_date,'yyyy') hire_year, count(*) from employees group by(to_char(hire_date,'yyyy'));

```
 hire_year | count
-----------+-------
 1996      |  10
 1990      |   1
 2000      |  11
 1994      |   7
 1987      |   2
 1993      |   1
 1997      |  28
 1991      |   1
 1989      |   1
 1998      |  23
 1995      |   4
 1999      |  18
(12 rows)
```

Q5) WAQ to top 2 earning employee name and salary in each department.

select first_name, salary, department_id from employees e1 where 2 > (select count(distinct salary) from employees e2 where e2.salary > e1.salary and

e1.department_id = e2.department_id);

```
first_name |  salary  | department_id
------------+----------+---------------
Steven      | 24000.00 |       90
Neena       | 17000.00 |       90
Lex         | 17000.00 |       90
Alexander   |  9000.00 |       60
Bruce       |  6000.00 |       60
Nancy       | 12000.00 |      100
Daniel      |  9000.00 |      100
Den         | 11000.00 |       30
Alexander   |  3100.00 |       30
Matthew     |  8000.00 |       50
Adam        |  8200.00 |       50
John        | 14000.00 |       80
Karen       | 13500.00 |       80
Kimberely   |  7000.00 |
Jennifer    |  4400.00 |       10
Michael     | 13000.00 |       20
Pat         |  6000.00 |       20
Susan       |  6500.00 |       40
```

```
Hermann   | 10000.00 |        70
Shelley   | 12000.00 |       110
William   |  8300.00 |       110
(21 rows)
```