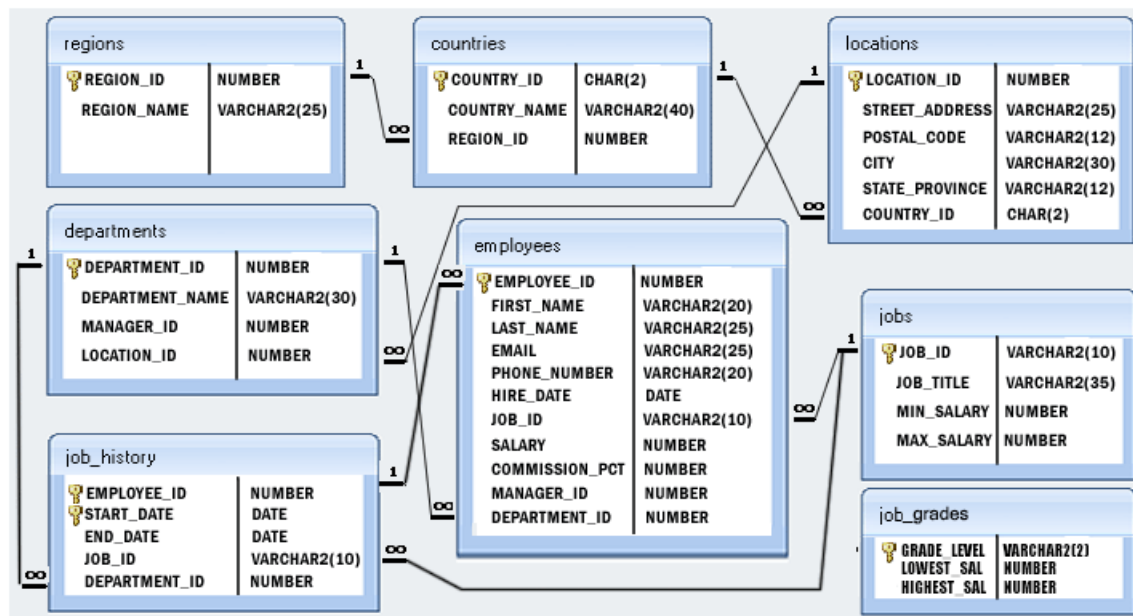


Employees , department and locations table are given in excel format  
sqlassignment.xlsx



1. Write a query to find the name (first\_name, last\_name) and the salary of the employees who have a higher salary than the employee whose last\_name='Bull'.

```

SELECT FIRST_NAME, LAST_NAME, SALARY
FROM employees
WHERE SALARY >
(SELECT salary FROM employees WHERE last_name = 'Bull');
  
```

2. Write a query to find the name (first\_name, last\_name) of all employees who works in the IT department.

```

SELECT first_name, last_name FROM employees
WHERE manager_id in (select employee_id
FROM employees WHERE department_id
IN (SELECT department_id FROM departments WHERE location_id
IN (select location_id from locations where country_id='US')));
  
```

3. Write a query to find the name (first\_name, last\_name) of the employees who have a manager and worked in a USA based department.

Hint : Write single-row and multiple-row subqueries

```
SELECT first_name, last_name FROM employees  
WHERE manager_id in (select employee_id  
FROM employees WHERE department_id  
IN (SELECT department_id FROM departments WHERE location_id  
IN (select location_id from locations where country_id='US')));
```

4. Write a query to find the name (first\_name, last\_name) of the employees who are managers.

```
SELECT first_name, last_name  
FROM employees  
WHERE (employee_id IN (SELECT manager_id FROM employees));
```

5. Write a query to find the name (first\_name, last\_name), and salary of the employees whose salary is greater than the average salary.

```
SELECT first_name, last_name, salary FROM employees  
WHERE salary > (SELECT AVG(salary) FROM employees);
```

6. Write a query to find the name (first\_name, last\_name), and salary of the employees whose salary is equal to the minimum salary for their job grade.

```
SELECT first_name, last_name, salary  
FROM employees  
WHERE employees.salary = (SELECT min_salary  
FROM jobs  
WHERE employees.job_id = jobs.job_id);
```

7. Write a query to find the name (first\_name, last\_name), and salary of the employees who earns more than the average salary and works in any of the IT departments.

```
SELECT first_name, last_name, salary  
FROM employees  
WHERE department_id IN
```

**(SELECT department\_id FROM departments WHERE department\_name LIKE 'IT%')**  
**AND salary > (SELECT avg(salary) FROM employees);**

8. Write a query to find the name (first\_name, last\_name), and salary of the employees who earns more than the earning of Mr. Bell.

**SELECT first\_name, last\_name, salary**  
**FROM employees**  
**WHERE salary >**  
**(SELECT salary FROM employees WHERE last\_name = 'Bell') ORDER BY**  
**first\_name;**

9. Write a query to get the department name and number of employees in the department.

**SELECT department\_name AS 'Department Name',**  
**COUNT(\*) AS 'No of Employees'**  
**FROM departments**  
**INNER JOIN employees**  
**ON employees.department\_id = departments.department\_id**  
**GROUP BY departments.department\_id, department\_name**  
**ORDER BY department\_name;**

10. Write a query to get 3 maximum salaries.

**SELECT DISTINCT salary**  
**FROM employees a**  
**WHERE 3 >= (SELECT COUNT(DISTINCT salary)**  
**FROM employees b**  
**WHERE b.salary >= a.salary)**  
**ORDER BY a.salary DESC;**

11. Write a query to get 3 minimum salaries.

**SELECT DISTINCT salary**  
**FROM employees a**  
**WHERE 3 >= (SELECT COUNT(DISTINCT salary)**  
**FROM employees b**

**WHERE b.salary <= a.salary)  
ORDER BY a.salary DESC;**

**12. Write a query to get nth max salaries of employees.**

**SELECT \*  
FROM employees emp1  
WHERE (1) = (  
SELECT COUNT(DISTINCT(emp2.salary))  
FROM employees emp2  
WHERE emp2.salary > emp1.salary);**

**13. Write a query to find the addresses (location\_id, street\_address, city, state\_province, country\_name) of all the departments.  
Hint : Use NATURAL JOIN.**

**SELECT location\_id, street\_address, city, state\_province, country\_name  
FROM locations  
NATURAL JOIN countries;**

**14. Write a query to find the name (first\_name, last\_name), department ID and name of all the employees.**

**SELECT first\_name, last\_name, department\_id, department\_name  
FROM employees  
JOIN departments USING (department\_id);**

**15. Write a query to find the name (first\_name, last\_name), job, department ID and name of the employees who works in London.**

**SELECT e.first\_name, e.last\_name, e.job\_id, e.department\_id,  
d.department\_name  
FROM employees e  
JOIN departments d  
ON (e.department\_id = d.department\_id)  
JOIN locations l ON  
(d.location\_id = l.location\_id)  
WHERE LOWER(l.city) = 'London';**

**16.** Write a query to find the employee id, name (last\_name) along with their manager\_id and name (last\_name).

```
SELECT e.employee_id 'Emp_Id', e.last_name 'Employee',  
m.employee_id 'Mgr_Id', m.last_name 'Manager'  
FROM employees e  
join employees m  
ON (e.manager_id = m.employee_id);
```

**17.** Write a query to display the department name, manager name, and city.

```
SELECT d.department_name, e.first_name, l.city  
FROM departments d  
JOIN employees e  
ON (d.manager_id = e.employee_id)  
JOIN locations l USING (location_id);
```

**18.** Write a query to display the job title and average salary of employees.

```
SELECT job_title, AVG(salary)  
FROM employees  
NATURAL JOIN jobs  
GROUP BY job_title;
```

**19.** Write a query to display job title, employee name, and the difference between salary of the employee and minimum salary for the job.

```
SELECT job_title, first_name, salary-min_salary 'Salary - Min_Salary'  
FROM employees  
NATURAL JOIN jobs;
```

**20.** Write a query to display the job history that were done by any employee who is currently drawing more than 10000 of salary.

```
SELECT jh.* FROM job_history jh  
JOIN employees e  
ON (jh.employee_id = e.employee_id)  
WHERE salary > 10000;
```

**21.** Write a query to display department name, name (first\_name, last\_name), hire date, salary of the manager for all managers whose experience is more than 15 years.

```
SELECT first_name, last_name, hire_date, salary,  
(DATEDIFF(now(), hire_date))/365 Experience  
FROM departments d JOIN employees e  
ON (d.manager_id = e.employee_id)  
WHERE (DATEDIFF(now(), hire_date))/365>15;
```