**1.** Write a query to find the addresses (location\_id, street\_address, city, state\_province, country\_name) of all the departments.

select locations.location\_id, street\_address, city, state\_province, country\_name

from locations

NATURAL JOIN countries;

select d.location\_id, street\_address, city, state\_province, country\_name

from departments d

join locations on d.location\_id = locations.location\_id

join countries on locations.country\_id = countries.country\_id;

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

select concat(first\_name, ' ', last\_name) as name, department\_id from employees;

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

*select concat(e.first\_name," ", e.last\_name) as name, j.job\_title, e.department\_id*

*from employees e*

*join jobs j on j.job\_id = e.job\_id*

*join departments d on d.department\_id = e.department\_id*

*join locations l on l.location\_id = d.location\_id*

*where l.city = "London";*

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

*select e.employee\_id, e.last\_name as employeeName, e.manager\_id, d.last\_name from employees e, employees d where e.manager\_id = d.employee\_id;*

**5.** Write a query to find the name (first\_name, last\_name) and hire date of the employees who was hired after 'Jones'.

*select concat(first\_name, " ", last\_name) as name, hire\_date from employees where hire\_date > (select hire\_date from employees where last\_name="*

*jones");*

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

*select d.department\_name, count(\*) from employees e join departments d on e.department\_id = d.department\_id group by (e.department\_id);*

**7.** Write a query to find the employee ID, job title, number of days between ending date and starting date for all jobs in department 90.

*select jh.employee\_id, j.job\_title, datediff(jh.end\_date, jh.start\_date) as numberOfDays from job\_history jh join jobs j on jh.job\_id = j.job\_id where jh.department\_id = 90;*

**8.** Write a query to display the department ID and name and first name of manager.

*select d.department\_id, e.first\_name, e.last\_name*

*from departments d*

*join employees e*

*on e.employee\_id = d.manager\_id;*

**9.** 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 on l.location\_id = d.location\_id;

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

select j.job\_title, avg(e.salary)

from employees e

join jobs j on e.job\_id = j.job\_id

group by(j.job\_title);

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

select j.job\_title, concat(e.first\_name, e.last\_name) as name, (e.salary - j.min\_salary) as differenceSalary

from employees e

join jobs j

using (job\_id);

**12.** 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.employee\_id, jh.start\_date, jh.end\_date, jh.job\_id, jh.department\_id

-> from job\_history jh

-> join employees e

-> using (employee\_id)

-> where e.salary > 10000;

**13.** 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 d.department\_name, concat(e.first\_name, e.last\_name) as name, e.hire\_date, e.salary from departments d join employees e on d.manager\_id = e.employee\_id where datediff(current\_date, hire\_date)\*365 > 15;