**Working with Databases Assignment**

**Display total number of records in each table**

select count(\*) from countries; 25

select count(\*) from departments; 27

select count(\*) from employees; 107

select count(\*) from job\_history; 10

select count(\*) from jobs; 19

select count(\*) from locations; 23

select count(\*) from regions; 4

**Display the number of employees in each department.**

select count(employees.first\_name), departments.department\_name from employees

join departments on departments.department\_id = employees.department\_id

group by department\_name;

**Display employee's names along with their job title.**

select employees.first\_name, employees.last\_name, jobs.job\_title from employees

join jobs on jobs.job\_id = employees.job\_id;

**How many employees work under each job title?**

select count(employees.first\_name) as num, jobs.job\_title from employees

join jobs on jobs.job\_id = employees.job\_id

group by jobs.job\_title;

**Name the employees who earn the highest salary according to the job.**

select employees.first\_name,max(employees.salary) as max\_sal, jobs.job\_title from employees

join jobs on jobs.job\_id = employees.job\_id

group by jobs.job\_title

order by max\_sal desc;

**Display employee's name, last job title of employees who are working in department 60.**

select employees.first\_name, jobs.job\_title, departments.department\_name from job\_history

join jobs on jobs.job\_id = job\_history.job\_id

join departments on departments.department\_id = job\_history.department\_id

join employees on employees.employee\_id = job\_history.employee\_id

where departments.department\_id = 60;

**Display previous job title, latest job title, and name of employees**

select concat\_ws(' ', e.first\_name, e.last\_name) employee\_name, j\_ last.job\_title as previous\_job\_title,j\_present.job\_title as present\_job\_title

from employees e

left outer join job\_history h on e.employee\_id = h.employee\_id

left outer join jobs j\_last on h.job\_id = j\_last.job\_id

left outer join jobs j\_present on e.job\_id = j\_present.job\_id;

**Display name of employees along with their total experience.**

select employees.first\_name, round(datediff(job\_history.end\_date,job\_history.start\_date)/365,2) from employees

join job\_history on job\_history.employee\_id = employees.employee\_id;

**Display the name of the employee along with the manager's name.**

select e.first\_name as emp\_name, m.first\_name as mgn\_name from employees m

join employees e on m.employee\_id = e.manager\_id;

**How many departments are in every country?**

select count(d.department\_id) as number\_of\_departments, c.country\_name from departments d

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

join countries c on l.country\_id = c.country\_id

group by c.country\_name;