1. πFirstName,Last\_Name,E-mail,Phone\_number,Hire\_date,Salary(

σDep\_Name='researh' OR Dep\_Name='development' (Employees⊳⊲Departments)

)

2. πFirstName,Last\_Name（σCountry\_Name='Canada'(Employees⊳⊲Departments⊳⊲Location⊳⊲Countries))

-

πFirstName,Last\_Name（

σCountry\_Name='United State'(Employee\_History⊳⊲Departments⊳⊲Location⊳⊲Countries))

3. πFirstName,Last\_Name,Dep\_Name（

σEmployees.Dep\_Id=Departments.Dep\_Id AND Employees.Emp\_Id=Departments.Manager\_Id AND Employees.Emp\_id=Employee\_History.Emp\_ID AND Department.Dep\_Id!=Employee\_History.Dep\_ID

(Employees☓Department☓Employee\_History)

)

//if the Manager\_Id in employees means every people have a special Manager\_id, then the underlined part should be Employee.Manager\_Id= Department.Manager\_id. If the Manager\_Id means the employee's Manager's Emp\_Id, keep the same.

4. rglobalMax (

π Max\_Salary(Jobs)

-

π Jobs1.Max\_Salary(σJobs1.Max\_Salary<Jobs2.Max\_Salary(ρJobs1(Jobs) ☓ρJobs2(Jobs))

)

π Job\_title,Max\_salary(σ Max\_Salary=globalMax (Jobs))

5. π Dep\_Name (σLocations.Location\_Id=Departments.Location\_Id AND (Country\_Id='Canada' OR Country\_ID='United States' OR Country\_ID='Mexico') (Locations☓Department))

6. remployee\_job (π Emp\_ID,Job\_IdEmployees ∪ π Emp\_ID,Job\_IdEmployee\_History)

ralljob\_eID(employee\_job÷πJob\_Id(Jobs))

π FirstName,Last\_Name (σEmployees.Emp\_ID=alljob\_eID.Emp\_ID(Employees☓alljob\_eID))

7. remployee\_dep (π Emp\_ID,Dep\_IDEmployees ∪ π Emp\_ID,Dep\_IDEmployee\_History)

π FirstName,Last\_Name (

(employee\_dep⊳⊲Departments⊳⊲Locations)

÷

πLocation\_Id (σState\_Province='Quebec'(Locations))

)