/\*select first\_name, last\_name, SUBSTRING(email, 5)

from employees\*/

/\*select first\_name, last\_name,

case

when salary < 5000

then 'promedio'

when salary > 5000 and salary < 15000

then 'Medio Alto'

when salary > 15000

then 'Alto'

end as "rango salarial"

from employees;\*/

/\*select first\_name, last\_name, phone\_number

from employees

order by (

CASE

when phone\_number is NULL

then first\_name

else phone\_number end);\*/

/\*select upper(SUBSTRING(first\_name, 1, 1)) || SUBSTRING(first\_name,2)

from employees;\*/

/\*select first\_name, last\_name, abs(hire\_date - date('now'))

from employees;\*/

/\*select \*

from employees

where salary =

(select max(salary)

from employees);

\*/

/\*SELECT AVG(salary), count(\*)

from employees;\*/

/\*select count(DISTINCT department\_id)

from employees;\*/

/\*SELECT job\_id, department\_id,sum(salary)

from employees

where department\_id in (2,7,8,9)

group by department\_id, job\_id ;

SELECT\*

from employees

where department\_id in (2,7,8,9);\*/

/\*alter table Estudiantes add column salario integer;\*/

/\*select Ciudad, AVG(salario)

from Estudiantes

where UPPER(Ciudad) != 'BOGOTA'

group by Ciudad

having avg(salario)<10000

order by Ciudad desc;\*/

/\*update Estudiantes set salario=8000 where Nombres = 'Leonardo';\*/

/\*select job\_id, department\_id, sum(salary)

from employees

where department\_id in (2,7,8,9)

group by department\_id, job\_id;

select \*

from employees

where department\_id in (2,7,8,9);\*/

/\*select e.first\_name || ' ' || e.last\_name as 'Nombre trabajador',

e2.first\_name || ' ' || e2.last\_name as 'Nombre jefe'

from employees e join employees e2

on e.manager\_id = e2.employee\_id \*/

/\*select e.first\_name || ' ' || e.last\_name as 'Nombre empleado',

jg.grade

from employees e join job\_grades jg

on e.salary BETWEEN jg.lowest\_sal and jg.highest\_sal; \*/

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

from employees e join departments d

on e.department\_id = d.department\_id\*/

/\*alter table estudiante add column name integer; \*/

/\*alter table employees add constraint fk\_e\_estudiante\*/

/\*alter table employees add column estudiante\_id integer references Estudiantes(Codigo);\*/

/\*select \*

from employees e cross join Estudiantes e2;\*/

/\*select e.first\_name , e.first\_name , e.employee\_id

from employees e

where e.department\_id = (select department\_id

from employees e

where e.first\_name = 'Alexander' and e.last\_name = 'Khoo');\*/

/\*select department\_id

from employees e

where e.first\_name = 'Alexander' and e.last\_name = 'Khoo'\*/

/\*select e.first\_name , e.first\_name , e.employee\_id

from employees e

where e.department\_id in (select DISTINCT department\_id

from employees e

where e.manager\_id = 100);\*/

/\*select \*

from employees e

where salary > (select salary

from employees e2

where e2.employee\_id=203) and (select salary

from employees e2

where e2.employee\_id=101)\*/

/\*select first\_name, last\_name, salary

from employees e

where salary >

(

select max(maximo) from (

select MAX(salary) as maximo

from employees e2

where e2.employee\_id != 100

group by department\_id

) as "t1" )

select MAX(salary)

from employees e2

group by department\_id \*/

/\*select first\_name, last\_name, salary

from employees e

where salary >

(

select max(maximo) from (

select MAX(salary) as maximo

from employees e2

where e2.employee\_id != 100

group by department\_id

) as "t1" )

/\*ejemplo\*/\*/

/\*select employee\_id, first\_name, last\_name

from employees e

where department\_id in (

select department\_id

from departments d

where location\_id in (

select location\_id

from locations l

where country\_id = (

select country\_id

from countries c

where country\_name = 'United Kingdom'

)

)

)\*/

/\*select employee\_id, first\_name, last\_name, salary,

salary - (select avg(salary) from employees e )

from employees e \*/

/\*with

costos\_departamento as (

select d.department\_id, sum(e.salary) "totalNomina"

from departments d join employees e

on d.department\_id = e.department\_id

group by d.department\_id

),

promedio\_costos as (

SELECT sum(totalNomina) / count(\*) "promedio"

from costos\_departamento

)

select \*

from costos\_departamento

where totalNomina > (select promedio from promedio\_costos)\*/

/\* Union Compatible\*/

/\*select employee\_id

from employees e

union

select employee\_id, account

from job\_history, account

from job\_history jh\*/

/\*alter table job\_history add column job\_id integer;\*/

/\*update job\_history set job\_id where employee\_id = 192\*/

/\* interseccion Compatible\*/

/\*select employee\_id

from employees e

intersect

select employee\_id, account

from job\_history, account

from job\_history jh\*/

/\*RESTA\*/

/\*select employee\_id

from employees e

EXCEPT

select employee\_id, account

from job\_history, account

from job\_history jh\*/

/\*para insertar una fila en una tabla)\*/

/\*insert into job\_history(account, employee\_id, job\_id)

values('caja social', 201,10);\*/

/\*para actualizar\*/

/\*update job\_history set employee\_id = 205, job\_id = 2

where employee\_id !=999\*/

/\* para borrar datos\*/

**delete** **from** job\_history

**where** account = 'Caja social';

ES IMPORTANTE USAR EL BEGIN

/\*BEGIN;\*/

/\*Insert into Estudiantes (codigo, Nombres, Ciudad, Salario)

values (777, 'Mauricio', Costa, 10000)\*/

/\*update Estudiante set salario = salario +5000 where docigo=777;\*/

/\*ROLLBACK;\*/

/\*BEGIN;\*/

/\*insert into Estudiante (Codigo, Nombres, Ciudad, Salario)

values (777, 'Dani', Costa, 10000)\*/

/\*COMMIT;\*/

/\*join\*/

/\*select e.first\_name, e.last\_name, d.departament\_name, l.street\_address

from employees e natural join departments d natural join locations l

where l.street\_address = '147 Spadina Ave';\*/

/\*subconsulta\*/

**select** first\_name, last\_name

**from** employees e

**where** department\_id **in**

( **select** department\_id

**from** departments d

**where** location\_id **in** (

**select** location\_id

**from** locations l

**where** l.street\_address = '147 Spadina Ave'

)

)

**select** first\_name, last\_name

**from** employees e **natural** **join** departments d **natural** **join** locations l

**where** l.street\_address = '147 Spadina Ave';

ejemplos

**select** first\_name, last\_name

**from** employees e

**where** department\_id **in**

(

**select** department\_id

**from** departments d

**where** location\_id = (

**select** location\_id

**from** locations l

**where** street\_address = '147 Spadina Ave'

))

**select** first\_name, last\_name

**from** employees e **natural** **join** departments d **natural** **join** locations l

**where** l.street\_address = '147 Spadina Ave

RETO

**select** Nombre, Primer\_Apellido,Segundo\_Apellido, Salario

**from** lider l

**where** Segundo\_Apellido = 'Ortiz';

**select** p.ID\_Proyecto,l.Nombre,l.Primer\_Apellido,l.Segundo\_Apellido

**from** Proyecto p **JOIN** Lider l

**WHERE** p.ID\_Proyecto **BETWEEN** 1 **AND** 25 **and** p.ID\_Lider =l.ID\_Lider;

**select** Ciudad\_Residencia, **sum**(Salario)

**from** Lider l

**group** **by** Ciudad\_Residencia;

**select** **LOWER**(SUBSTR(Nombre,1,1)) || **UPPER**(SUBSTR(Nombre,2,**LENGTH**(Nombre)))

**from** Lider l ;

**select** cargo, **avg**(Salario)

**from** Lider l

**group** **by** Cargo

**having** **avg**(salario)>500000

**order** **by** Cargo;