Sub consultas y consultas compuestas 2021/04/28
Datos 1
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Realice las siguientes consultas, usando operadores UNION, UNION ALL, INTERSECT, MINUS.

1. Genere un reporte con apellido y salario, de los empleados que ganan arriba del salario promedio.

```
select last_name, salary
from employees
intersect
select last_name, salary
from employees where salary > (select
avg(salary)from employees);
```

	LAST_NAME	SALARY
1	Hartstein	13000
2	Mavris	6500
3	Baer	10000
4	Higgins	12008
5	Gietz	8300
6	King	24000
7	Kochhar	17000
8	De Haan	17000
9	Hunold	9000
10	Greenberg	12008
11	Faviet	9000
12	Chen	8200
13	Sciarra	7700
14	Urman	7800
15	Popp	6900
16	Raphaely	11000
17	Weiss	8000

2. Listado de apellido y ID de los empleados, que trabajen en un departamento donde exista por lo menos un empleado cuyo apellido inicia con la letra L

```
select employee_id, last_name
from employees
where department_id
in
(select department_id
from employees
intersect
select department_id
from employees
where last_name like 'L%')
```

	EMPLOYEE_ID	LAST_NAME
1	196	Walsh
2	197	Feeney
3	198	OConnell
4	199	Grant
5	103	Hunold
6	104	Ernst
7	105	Austin
8	106	Pataballa
9	107	Lorentz
10	120	Weiss
11	121	Fripp
12	122	Kaufling
13	123	Vollman
14	124	Mourgos
15	125	Nayer
16	126	Mikkilineni
17	127	Landry

3. Liste los empleados (apellidos) que tienen un salario mayor al salario de cualquier empleado del departamento 60.

```
select last_name
from employees
intersect
select last_name
from employees
where salary >
(select max(salary)
from employees
where department_id = 60)
```

	LAST_NAME
1	Abel
2	Baer
3	Bernstein
4	Bloom
5	Cambrault
6	De Haan
7	Errazuriz
8	Fox
9	Greenberg
10	Greene
11	Hartstein
12	Higgins
13	King
14	Kochhar
15	Ozer
16	Partners
17	Raphaely

4. Genere un listado de los nombres de los departamentos que no contienen un job_id ST_CLERK.

```
select department_name
from departments
where department_id
in
(select department_id
from departments
minus
select distinct department_id
from employees
where job_id = 'ST_CLERK')
```

	DEPARTMENT_NAME
10	Accounting
11	Treasury
12	Corporate Tax
13	Control And Credit
14	Shareholder Services
15	Benefits
16	Manufacturing
17	Construction
18	Contracting
19	Operations
20	IT Support
21	NOC
22	IT Helpdesk
23	Government Sales
24	Retail Sales
25	Recruiting
26	Payroll

5. Genere un listado de los países que no poseen departamentos de la empresa (Tabla COUNTRIES)

```
select country_name, country_id
from countries
minus
select distinct c.country_name, l.country_id
from countries c, locations l, departments d
where c.country_id = l.country_id
and d.location_id = l.location_id
```

	COUNTRY_NAME	COUNTRY_ID
1	Italy	IT
2	Japan	JP
3	China	CN
4	India	IN
5	Australia	AU
6	Zimbabwe	ZW
7	Singapore	SG
8	France	FR
9	Zambia	ZM
10	Egypt	EG
11	Brazil	BR
12	Switzerland	CH
13	Netherlands	NL
14	Mexico	MX
15	Kuwait	KW
16	Israel	IL
17	Denmark	DK

6. Genere un listado de los empleados que trabajan en el departamento 50 y 80. Desplegar employee_id, job_id, department_id.

```
select department_id, job_id, employee_id
from employees
where department_id = 80
union all
select department_id, job_id, employee_id
from employees
where department_id = 50
order by 1
```

	DEPARTMENT_ID	JOB_ID	EMPLOYEE_ID
1	50	SH_CLERK	196
2	50	SH_CLERK	197
3	50	SH_CLERK	198
4	50	SH_CLERK	199
5	50	ST_MAN	120
6	50	ST_MAN	121
7	50	ST_MAN	122
8	50	ST_MAN	123
9	50	ST_MAN	124
10	50	ST_CLERK	125
11	50	ST_CLERK	126
12	50	ST_CLERK	127
13	50	ST_CLERK	128
14	50	ST_CLERK	129
15	50	ST_CLERK	130
16	50	ST_CLERK	131
17	50	ST_CLERK	132

7. Genere un listado de todos los empleados que son representantes de ventas (job_id='SA_REP') y están trabajando en el departamento de ventas (department_id=80)

```
select  employee_id, first_name, last_name
from employees
where department_id = 80
intersect
select employee_id, first_name, last_name
from employees
where job_id='SA_REP'
```

	EMPLOYEE_ID	FIRST_NAME	LAST_NAME
1	150	Peter	Tucker
2	151	David	Bernstein
3	152	Peter	Hall
4	153	Christopher	Olsen
5	154	Nanette	Cambrault
6	155	Oliver	Tuvault
7	156	Janette	King
8	157	Patrick	Sully
9	158	Allan	McEwen
10	159	Lindsey	Smith
11	160	Louise	Doran
12	161	Sarath	Sewall
13	162	Clara	Vishney
14	163	Danielle	Greene
15	164	Mattea	Marvins
16	165	David	Lee
17	166	Sundar	Ande