

## Ejercicio SQL

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```
CREATE TABLE asesor(  
id_Asesor varchar(4) not null,  
nombre_Asesor varchar(100) not null,  
constraint asesor_pk primary key (id_Asesor)  
);
```

```
CREATE TABLE alumno(  
id_Alumno int not null,  
nombre_Alumno varchar(100) not null,  
id_Asesor varchar(4) null,  
CONSTRAINT alumno_pk primary key (id_Alumno),  
CONSTRAINT asesor_fk foreign key (id_asesor) REFERENCES asesor(id_asesor)  
);
```

```
INSERT INTO asesor VALUES('as-1','Jorge Campos');  
INSERT INTO asesor VALUES('as-2','Laura Sandoval');  
INSERT INTO asesor VALUES('as-3','Adolfo Millan');  
INSERT INTO asesor VALUES('as-4','Fernando Arreola');
```

```
INSERT INTO alumno VALUES(1,'Mauricio Barrientos','as-1');  
INSERT INTO alumno VALUES(2,'Mario Tabura','as-2');  
INSERT INTO alumno VALUES(3,'Luz Rueda','as-1');  
INSERT INTO alumno VALUES(4,'Jorge Santillan');  
INSERT INTO alumno VALUES(5,'Gabriela Gaytan','as-3');
```

```
SELECT alumno.nombre_Alumno, asesor.nombre_Asesor  
FROM alumno  
JOIN asesor ON alumno.id_Asesor = asesor.id_Asesor;
```

	nombre_alumno character varying (100) 🔒	nombre_asesor character varying (100) 🔒
1	Mauricio Barrientos	Jorge Campos
2	Mario Tabura	Laura Sandoval
3	Luz Rueda	Jorge Campos
4	Gabriela Gaytan	Adolfo Millan

```
SELECT  
alumno.nombre_Alumno, COALESCE(asesor.nombre_Asesor, 'Sin Asesor') AS nombre_Asesor  
FROM alumno  
LEFT JOIN asesor ON alumno.id_Asesor = asesor.id_Asesor  
UNION  
SELECT alumno.nombre_Alumno, 'Sin Asesor' AS nombre_Asesor  
FROM alumno  
WHERE id_Asesor IS NULL
```

UNION

```
SELECT 'Sin Alumno' AS nombre_Alumno, asesor.nombre_Asesor
FROM asesor
LEFT JOIN alumno ON asesor.id_Asesor = alumno.id_Asesor
WHERE alumno.id_Asesor IS NULL;
```

	nombre_alumno character varying	nombre_asesor character varying
1	Sin Alumno	Fernando Arreola
2	Mario Tabura	Laura Sandoval
3	Mauricio Barrientos	Jorge Campos
4	Luz Rueda	Jorge Campos
5	Gabriela Gaytan	Adolfo Millan
6	Jorge Santillan	Sin Asesor

```
SELECT COALESCE(alumno.nombre_Alumno, 'Sin Alumno') AS nombre_Alumno,
COALESCE(asesor.nombre_Asesor, 'Sin Asesor') AS nombre_Asesor
FROM alumno
FULL JOIN asesor ON alumno.id_Asesor = asesor.id_Asesor
WHERE alumno.id_Asesor IS NULL OR asesor.id_Asesor IS NULL;
```

	nombre_alumno character varying	nombre_asesor character varying
1	Jorge Santillan	Sin Asesor
2	Sin Alumno	Fernando Arreola

```
SELECT alumno.nombre_Alumno
FROM alumno
LEFT JOIN asesor ON alumno.id_Asesor = asesor.id_Asesor
WHERE asesor.id_Asesor IS NULL;
```

	nombre_alumno character varying (100)
1	Jorge Santillan

```
SELECT asesor.nombre_Asesor
FROM asesor
LEFT JOIN alumno ON asesor.id_Asesor = alumno.id_Asesor
WHERE alumno.id_Asesor IS NULL;
```

	nombre_asesor character varying (100)
1	Fernando Arreola

