

3. SENTENCIAS SQL

En el MER los modelos y atributos están con camelcase, así hice los sqls, validar que en la DB estén así y no separados con _, sino toca agregar los _ a los SQL, como se verá en las capturas de pantalla. La data con la que realice las pruebas es la que se encuentra en el archivo "import.sql" dentro de la carpeta resources del punto 4.

A)

```
SELECT bus.id, bus.type, bus.brakes, bus.motor, concessionaire.name
FROM bus
LEFT JOIN concessionaire ON bus.concessionaireId = concessionaire.id
WHERE concessionaire.name='Concessionaire 1';
```

```
SELECT bus.id, bus.type, bus.brakes, bus.motor, concessionaire.name
FROM bus
LEFT JOIN concessionaire ON bus.concessionaire_Id = concessionaire.id
WHERE concessionaire.name='Concessionaire 1';
```

ID	TYPE	BRAKES	MOTOR	NAME
1	Bi-articulado	Freno Regenerativo	Electric	Concessionaire 1
5	Microbus	Frenos mecánicos	Diesel	Concessionaire 1

(2 rows, 3 ms)

B)

```
SELECT device.id, device.ip, device.status, device.busId, bus.type, device.deviceTypeId,
deviceType.name
FROM device
LEFT JOIN deviceType ON device.deviceTypeId = deviceType.id
LEFT JOIN bus ON device.busId = bus.id
WHERE deviceType.name='NVR' and bus.type='Bi-articulado';
```

```
SELECT device.id, device.ip, device.status, device.bus_Id, bus.type, device.device_Type_Id, device_Type.name
FROM device
LEFT JOIN device_Type ON device.device_Type_Id = device_Type.id
LEFT JOIN bus ON device.bus_Id = bus.id
WHERE device_Type.name='NVR' and bus.type='Bi-articulado';
```

ID	IP	STATUS	BUS_ID	TYPE	DEVICE_TYPE_ID	NAME
1	192.168.0.10	Active	1	Bi-articulado	2	NVR

(1 row, 2 ms)

C)

```
SELECT device.status, bus.motor, COUNT(*)
```

```
FROM device
```

```
INNER JOIN bus ON device.busId = bus.id
```

```
GROUP BY device.status, bus.motor;
```

```
SELECT device.status, bus.motor, COUNT(*)
FROM device
INNER JOIN bus ON device.bus_id = bus.id
GROUP BY device.status, bus.motor;
```

STATUS	MOTOR	COUNT(*)
Active	Diesel	1
Active	Electric	2
Inactive	Gas	1
Inactive	Hybrid	1

(4 rows, 2 ms)