# Useful Queries

## Query to find number of devices per device attribute

```
SELECT "device_ip", "device_active", protocols, deviceattributes
[*'attr_type'*] , deviceattributes[1]['attr_type'] as type,deviceattributes[1]
['attr_name']::string as attrname, "deviceattributes", "attribute_type"

FROM "devicemodel" where deviceattributes[1]['attr_name']::string = :attr_name
(String,'')
```

## Query to show a specific attribute for a host

What if customer wants to see sysObjectID attribute value for a host? In general, attributes are defined in deviceattributes array (field in devicemodel and devicemodel_allzones views)

Each element of the array looks like:

{

- device_id: 37,
- attr_type: "ASName",
- attr_name: "LUMETA",
- userdefined: false

}

so if we want to find information about attribute sysObjectID, we need to filter the field to return us attr_type set to sysObjectID.

- filter(deviceattributes, [x] -> x['attr_type'] = 'sysObjectID')[*'attr_name'*] should get you attribute name for sysObjectID.

 Here is an example in the query as below:

```
select filter(deviceattributes, [x] -> x['attr_type'] = 'sysObjectID')
[*'attr_name'*] as attributename, device_ip from devicemodel where
device_ip='65.246.245.25'
```

## Quick search for tables by schema, specifying certain tables in that schema

```
observer=#\dt system.*: contains zone, user, collector

observer=#\dt events.*: contains event, notification

observer=#\dt zone.* contains target, attribute, device, interface, etc

observer=#\dt zone_000x.* information of particular zone.  Note the 'x' will
be the id in select * from system.zone

observer=#\dn to list schemas
```

## Show distinct IPs on system:  good for exceeding license problems

```
select count(distinct ip) from zone.device;

select zone_id, count(distinct ip) from zone.device GROUP BY zone_id;
```

## Query to show all collector-related events

```
select id, type, time, details from event.notification_all where type like
'COLLEC%';
```

## Query to show all collector-related events initiated by user admin

```
select id, type, time, details from event.notification_all where type like
'COLLEC%' and details && array['user:admin'::text];
```

## Query to show all collector-related events filtered by specific date

```
select id, type, time, details from event.notification_all where type like
'COLLEC%' and time>to_timestamp ('201-0-08 00:00:00', 'YYYY-MM-DD HH24:MI:
SS');
```

## Query to show all collector-related events filtered by specific date initiated by user admin

```
select id, type, time, details from event.notification_all where
type='COLLECTOR_UPDATED' and time >to_timestamp ('201-0-08 00:00:00', 'YYYY-
MM-DD HH24:MI:SS') and details && array['user:admin'::text];
```

## Query to show all active db queries

```
select * from pg_stat_activity where state='active';
```

## Query to reset the age-out value for a device

```
update system.config set value='1' where key='maxDeviceAge';
```

where the value is in number of days. This query will reset your device age
out time from 7 days (which is by default) to 1 day (that the customer is
setting).