find: The find method is used to find the first element in a collection that satisfies a given condition. It takes a closure as an argument, and the closure defines the condition to be satisfied. If an element in the collection meets the condition, find returns that element; otherwise, it returns null.

If you want to filter the Gson down to the field you are interesting in we need to use **find** (return one result)method with curly brackets , for example:

**vehicles.find{it}**

it - special variable which hold current item of the loop, in that example it returns the object of the json array, and if we want to iterate over the fields of this object, we need to use dot notation. For example:

**vehicles.find{it.publicTrunsport==true}** ← it will return the vehicle in which the the boolean field publicTrunsport==true. If the field for example of String type, ise single quote ‘’.

one more example:

**vehicles.find{it.id==1}** ← it will return the object with the field id equal to 1. Also we can use any type of operators like greater than, less than …, and if we need to get to the field of that object we can do it straight forward. for example:

**vehicles.find{it.id==1}.type** ← so we will get the object with the field id == 1 and we will get back the value of the field type, (not the whole object) .

In case there are multiple results with the same conditions it will return first matching. If we need to store all the matched results we need to use findAll method, for example:

**vehicles.findAll {it.weight < 1500}.type** ←it will return **all** the values of the field type of every object that matches the query.

**Max / min**

vehicles.**max**{it.weight}.type ← it will return object with biggest amount of ‘weight’ field and it will give back only the value of field ‘type’.

vehicles.**min**{it.weight}.type ← it will return object with minimum amount of ‘weight’ field and it will give back only the value of field ‘type’.

**Sum**

vehicles.**sum**{it.weight} ← it will return all the weight fields in every object will be summarized.

**combination findAll and find**

vehicles.findAll {it.weight > 1500}. find {it.publicTransport == true}.type ← first will be found all the vehicles that are matched to the expression, then will be found first vehicle that has field publicTransport == true and will be returned only the field type of that object.