**Lets try an even more complicated nested JSON**

{event":{"event\_id":"245554807","event\_name":"Rosatellum. Come funziona con il Portavoce Toninelli","event\_url":"https://www.meetup.com/MeetupToscana/events/245554807/","time":1513011600000},"group":{"group\_city":"Firenze","group\_country":"it","group\_id":1518096,"group\_lat":43.77,"group\_lon":11.25,"group\_name":"Amici di Beppe Grillo - Meetup Toscana","group\_topics":[{"topic\_name":"Movimento 5 Stelle","urlkey":"movimento-5-stelle"},{"topic\_name":"Alternative Energy","urlkey":"alternativeenergy"},{"topic\_name":"Beppe Grillo","urlkey":"beppegrillo"},{"topic\_name":"Ambiente","urlkey":"ambiente"},{"topic\_name":"Democrazia Partecipativa","urlkey":"democrazia-partecipativa"},{"topic\_name":"Sustainable Development","urlkey":"sustainable-development"}]},"guests":0,"member":{"member\_id":200710690,"member\_name":"Fabio Pini","photo":"https://secure.meetupstatic.com/photos/member/7/9/3/a/thumb\_260911034.jpeg"},"mtime":1512900698163,"response":"yes","rsvp\_id":1702952345,"venue":{"lat":43.754215,"lon":11.192284,"venue\_id":24370237,"venue\_name":"CNA Scandicci"},"visibility":"public"}

**We have a topic created called RSVPX and we will build a stream on it.**

CREATE STREAM meetup\_data \

(event STRUCT<\

event\_id BIGINT, \

event\_name VARCHAR, \

event\_url VARCHAR, \

time BIGINT>,\

groupx STRUCT<\

group\_city VARCHAR, \

group\_country VARCHAR, \

group\_id BIGINT, \

group\_lat DOUBLE, \

group\_long DOUBLE, \

group\_name VARCHAR, \

group\_topics array <STRUCT<topic\_name VARCHAR, urlkey VARCHAR>>>, \

guests INT, \

member STRUCT< \

member\_id BIGINT, \

member\_name VARCHAR, \

photo VARCHAR>, \

mtime BIGINT, \

response VARCHAR, \

rsvp\_id BIGINT, \

venue STRUCT< \

lat DOUBLE, \

long DOUBLE, \

venue\_id BIGINT, \

venue\_name VARCHAR>, \

visibility VARCHAR) \

WITH (KAFKA\_TOPIC='rsvpx', VALUE\_FORMAT='JSON');

Select \* from meetup\_data emit changes limit 10;

Select event->event\_name from meetup\_data where groupx->group\_country = 'il' emit changes; **// so we can address as well the data inside the struct type**

------ stop here ------------------------

**Now, lets flatten the data**

CREATE STREAM flat\_meetup\_data AS Select groupx->group\_country as country,event->event\_name from meetup\_data;

Select \* from flat\_meetup\_data emit changes;

**Let’s transform the JSON data in AVRO:**

create stream meetup\_avro with (VALUE\_FORMAT='AVRO') AS SELECT \* from flat\_meetup\_data;

Now, if we would like to create a stream based on a AVRO topic - the good news is that we don’t have to specify columns and types.

Create stream avro\_test with (KAFKA\_TOPIC='MEETUP\_AVRO',VALUE\_FORMAT='AVRO');

Select \* from avro\_test;