**Step by step procedure to import JSON to hive table**

**Step 1:** install maven if not there already

>$ sudo apt-get install maven

**Step 2:** install git if not there already

>sudo git clone <https://github.com/rcongiu/Hive-JSON-Serde.git>

**Step 3**: go into the $HOME/HIVE-JSON\_Serde folder

**Step 4:** build the serde package

>sudo mvn -Pcdh5 clean package

**Step 5:** The serde file will be in **$HOME/Hive-JSON-Serde/json-serde/target/json-serde-1.3.7-SNAPSHOT-jar-with-dependencies.jar**

**Step 6:** Add serde as dependency jar in hive

hive> ADD JAR $HOME/Hive-JSON-Serde/json-serde/target/json-serde-1.3.7- SNAPSHOT-jar-with-dependencies.jar;

**Step 7:** create json file in $HOME/books.json (Example)

{"value": [{"id": "1","bookname": "A","properties": {"subscription": "1year","unit": "3"}},{"id": "2","bookname":"B","properties":{"subscription": "2years","unit": "5"}}]}

**Step 8:** create tmp1 table in hive

hive>CREATE TABLE tmp1 (

value ARRAY<struct<id:string,bookname:string,properties:struct<subscription:string,unit:string>>>

)

ROW FORMAT SERDE 'org.openx.data.jsonserde.JsonSerDe'

WITH SERDEPROPERTIES (

'mapping.value' = 'value'

)

STORED AS TEXTFILE;

**Step 9:**  load the data from json to tmp1 table

>LOAD DATA LOCAL INPATH '$HOME/books.json' INTO TABLE tmp1;

**Step 10:** create a tmp2 table to do explode operation form tmp1, this intermediate step is to break multi level json structure into multiple rows Note: if your JSON structure is simple and single level , avoid this step

hive>create table tmp2 as

SELECT \*

FROM tmp1

LATERAL VIEW explode(value) itemTable AS items;

**Step 11:** create hive table and load the values from tmp2 table

hive>create table books as

select value[0].id as id, value[0].bookname as name, value[0].properties.subscription as subscription, value[0].properties.unit as unit from tmp2;

**Step 12:** drop tmp tables

hive>drop table tmp1;

hive>drop table tmp2;

**Step 13:** test the hive table

hive>select \* from books;

output:

id name subscription unit

1 B 1year 3

2 B 2years 5