

Hive-Word Count Examples



Hive Word Count Examples

Step1: Create input table contain input file

CREATE TABLE IF NOT EXISTS input(line string);

Step 2: Load input data

LOAD DATA LOCAL INPATH '/home/coolbaski/wc.txt' OVERWRITE INTO TABLE input;

Step 3: WordCount

CREATE TABLE word_counts AS SELECT word,count(1)
AS count FROM (SELECT explode(split(line, ' ')) AS
word FROM input) w GROUP BY word ORDER BY word;

Hive Word Count Examples-Understand step3 in more details

Step3.a: Convert sentence into words

- The input file in sentences format
- First we have to convert that it into words
- Applying space as delimiter.
- Use split function of hive. Ex:-split(line, ' ')

Step3.b: Convert column into rows

- Output of step3.a is in array of strings
- we have to convert it into multiple rows
- explode function in hive, convert every line of data into multiple rows
- we have built in table generation UDTF explode function

SELECT explode(split(line, ' ')) AS word FROM input

create above output as intermediate table as follows

SELECT explode(split(line, ' ')) AS word FROM input) w

Hive Word Count Examples-Understand step3 in more details

Step3.c: apply group by to count word occurrences

SELECT word,count(1) AS count FROM (SELECT explode(split(line, ' ')) AS word FROM input) w GROUP BY word ORDER BY word;

Step3.d: Store the results in another table

CREATE TABLE word_counts AS SELECT word,count(1) AS count FROM (SELECT explode(split(line, ' ')) AS word FROM input) w GROUP BY word ORDER BY word;

Select * from word counts;