

Getting Started

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Contents

Running a simple SQL job.....	4
--------------------------------------	----------

Running a simple SQL job

You can use this Getting Started use case to get familiar with the most simple form of running a SQL Stream job.

About this task

The Getting Started contains the basic steps of running a SQL Stream job. When executing the job, you do not need to select a sink as the results are displayed in the browser. The SQL Stream Builder provisions a job on your cluster to run the SQL queries. You can select the Logs tab to review the status of the SQL job. As data is returned, it shows up in the Results tab.



Note: When adding SQL statements to the SQL window, you do not need to add the semicolon (;) at the end of the statement as SSB can run the command without the semicolons.

Before you begin

As the Getting Started is using the Stateful Tutorial as an example, you need to set up a Kafka topic as transaction.log.1 in Streams Messaging Manager, and submit the Kafka Data Generator job to generate data to the source topic. For more information, see the [Stateful Tutorial](#).

Procedure

1. Go to your cluster in Cloudera Manager.
2. Click on SQL Stream Builder from the list of Services.
3. Click on SQLStreamBuilder Console.
4. Click on Data Providers from the main menu.
5. Register a Kafka Provider.
6. Click on Console from the main menu.
7. Click on Tables tab.
8. Add a Kafka table.
 - a) Name the Table to transactions
 - b) Select the registered Kafka cluster.
 - c) Select transaction.log.1 as the Kafka topic.
 - d) Select JSON as Data Format.
 - e) Click Detect Schema.
SSB detects the schema and displays it to the Schema Definition field.
 - f) Click Save Changes.
9. Click on Compose tab.
10. Provide a name for the SQL job in the SQL Job Name text box.



Note: You can also use the random name button to generate a name for your job.



Important: Do not add any sink to the SQL Job as the output is generated to the browser.

11. Add the following SQL statement to the SQL window:

```
SELECT * FROM transactions
```

12. Click on Execute.
You can see the generated output in the Results tab.
13. Click on Stop to stop the previous query.

14. Add the following SQL statement to the SQL window:

```
SELECT itemId, quantity
FROM (
  SELECT itemId, quantity,
    ROW_NUMBER() OVER (
      ORDER BY '', quantity) AS rownum
  FROM transactions)
WHERE rownum <= 4
```

Related Information

[Using Streaming SQL Console](#)

[Data Sources in SSB](#)

[Using Virtual Tables](#)

[Monitoring SQL Stream jobs](#)