

# CSV Serde

- [Availability](#)
- [Background](#)
- [Usage](#)
- [Versions](#)

## Availability

### Earliest version CSVSerde is available

The CSVSerde is available in [Hive 0.14](#) and greater.

## Background

The CSV SerDe is based on <https://github.com/ogrodnek/csv-serde>, and was added to the Hive distribution in [HIVE-7777](#).

### Limitation

This SerDe treats all columns to be of type String. Even if you create a table with non-string column types using this SerDe, the DESCRIBE TABLE output would show string column type. The type information is retrieved from the SerDe. To convert columns to the desired type in a table, you can create a view over the table that does the CAST to the desired type.

## Usage

This SerDe works for most CSV data, but does not handle embedded newlines. To use the SerDe, specify the fully qualified class name `org.apache.hadoop.hive.serde2.OpenCSVSerde`.

Documentation is based on original documentation at <https://github.com/ogrodnek/csv-serde>.

### Create table, specify CSV properties

```
CREATE TABLE my_table(a string, b string, ...)
ROW FORMAT SERDE 'org.apache.hadoop.hive.serde2.OpenCSVSerde'
WITH SERDEPROPERTIES (
  "separatorChar" = "\t",
  "quoteChar"     = "'",
  "escapeChar"   = "\\"
)
STORED AS TEXTFILE;
```

### Default separator, quote, and escape characters if unspecified

```
DEFAULT_ESCAPE_CHARACTER \
DEFAULT_QUOTE_CHARACTER  "
DEFAULT_SEPARATOR        ,
```

For general information about SerDes, see [Hive SerDe](#) in the Developer Guide. Also see [SerDe](#) for details about input and output processing.

## Versions

The CSVSerde has been built and tested against Hive 0.14 and later, and uses [Open-CSV 2.3](#) which is bundled with the Hive distribution.

Hive Versions	Open-CSV Version
Hive 0.14 and later	2.3