

## **Spark SQL Guide**

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## **ORC Files**

Since Spark 2.3, Spark supports a vectorized ORC reader with a new ORC file format for ORC files. To do that, the following configurations are newly added. The vectorized reader is used for the native ORC tables (e.g., the ones created using the  ${\bf clause} \ {\tt USING} \ {\tt ORC)} \ {\bf when} \ {\tt spark.sql.orc.impl} \ {\bf is} \ {\bf set} \ {\bf to} \ {\tt native} \ {\bf and} \ {\tt spark.sql.orc.enable} {\tt vectorizedReader} \ {\bf is} \ {\bf set} \ {\bf to} \ {\tt true}. \ {\tt For} \ {\tt orc.enable} \ {\tt vectorizedReader} \ {\tt is} \ {\tt set} \ {\tt to} \ {\tt true}. \ {\tt For} \ {\tt orc.enable} \$ the Hive ORC serde tables (e.g., the ones created using the clause USING HIVE OPTIONS (fileFormat 'ORC')), the vectorized reader is used when <code>spark.sql.hive.convertMetastoreOrc</code> is also set to true.

Property Name	Default	Meaning
spark.sql.orc.impl	native	The name of ORC implementation. It can be one of native and hive. native means the native ORC support that is built on Apache ORC 1.4. 'hive' means the ORC library in Hive 1.2.1.
spark.sql.orc.enableVectorizedReader	true	Enables vectorized orc decoding in native implementation. If false, a new non-vectorized ORC reader is used in native implementation. For hive implementation, this is ignored.