

## Primitive Type Hive/Pig Mapping Notes:

Hive Type/Value	Pig Type/Value	Hive->Pig	Pig->Hive
BOOLEAN/boolean	BOOLEAN/boolean	*	*
INT/int	INTEGER/int	*	*
BIGINT/long	LONG/long	*	*
STRING/java.lang.String	CHARARRAY/java.lang.String	*	*
FLOAT/float	FLOAT/float	*	*
DOUBLE/double	DOUBLE/double	*	*
TINYINT/byte	INTEGER/int	*	performs a range check <sup>1</sup>
SMALLINT/short	INTEGER/int	*	performs a range check <sup>1</sup>
BINARY/byte[]	BYTEARRAY/org.apache.pig.data.DataByteArray	*	*
N/S	BIGINTEGER/java.math.BigInteger	N/S	N/S
DATE	DATETIME/org.joda.time.DateTime	turn to DateTime with time part set to 0 and Local TZ	If time component is 0 (regardless of TZ in the DateTime value), it will be written to target, otherwise it's considered out of range <sup>1</sup>
TIMESTAMP/java.sql.Timestamp	DATETIME/org.joda.time.DateTime	Will lose 'nanos' and set TZ to Local TZ	will translate to Timestamp based on Millis value.
DECIMAL/HiveDecimal (maximum 38 digits)	BIGDECIMAL/java.math.BigDecimal	*	performs a range check <sup>1</sup>
CHAR(x)HiveChar	CHARARRAY/java.lang.String	*	performs a range check <sup>1</sup>

VARCHAR(x)/HiveVar char	CHARARRAY/java.la ng.String	*	performs a range check <sup>1</sup>
* direct/lossless mapping N/S not supported 1 if value is out of range, by default NULL will be written and 1 warning per target column/type will be logged. User may specify “onOutOfRangeValue Throw” to HCatStorer whence an error will be raised instead.			

Note that any mapping not in this table is not supported and will throw an exception. The user is expected to cast the value to a compatible type first (in a Pig script for example).