causes the cast to use no more than N bytes of the argument. Values shorter than N bytes are padded with 0×00 bytes to a length of N.

• CHAR[(N)] [charset_info]

Produces a string with the CHAR data type. If the optional length N is given, CHAR (N) causes the cast to use no more than N characters of the argument. No padding occurs for values shorter than N characters.

With no *charset_info* clause, CHAR produces a string with the default character set. To specify the character set explicitly, these *charset info* values are permitted:

- CHARACTER SET charset_name: Produces a string with the given character set.
- ASCII: Shorthand for CHARACTER SET latin1.
- UNICODE: Shorthand for CHARACTER SET ucs2.

In all cases, the string has the character set default collation.

• DATE

Produces a DATE value.

• DATETIME

Produces a DATETIME value.

• DECIMAL[(*M*[,*D*])]

Produces a DECIMAL value. If the optional M and D values are given, they specify the maximum number of digits (the precision) and the number of digits following the decimal point (the scale).

• DOUBLE

Produces a DOUBLE result. Added in MySQL 8.0.17.

• FLOAT[(p)]

If the precision p is not specified, produces a result of type FLOAT. If p is provided and 0 <= < p <= 24, the result is of type FLOAT. If 25 <= p <= 53, the result is of type DOUBLE. If p < 0 or p > 53, an error is returned. Added in MySQL 8.0.17.

• JSON

Produces a JSON value. For details on the rules for conversion of values between JSON and other types, see Comparison and Ordering of JSON Values.

• NCHAR[(N)]

Like CHAR, but produces a string with the national character set. See Section 10.3.7, "The National Character Set".

Unlike CHAR, NCHAR does not permit trailing character set information to be specified.

• REAL