• PAD_CHAR_TO_FULL_LENGTH

By default, trailing spaces are trimmed from CHAR column values on retrieval. If PAD_CHAR_TO_FULL_LENGTH is enabled, trimming does not occur and retrieved CHAR values are padded to their full length. This mode does not apply to VARCHAR columns, for which trailing spaces are retained on retrieval.



Note

As of MySQL 8.0.13, PAD_CHAR_TO_FULL_LENGTH is deprecated. Expect it to be removed in a future version of MySQL.

```
mysql> CREATE TABLE t1 (c1 CHAR(10));
Query OK, 0 rows affected (0.37 sec)
mysql> INSERT INTO t1 (c1) VALUES('xy');
Query OK, 1 row affected (0.01 sec)
mysql> SET sql_mode = '';
Query OK, 0 rows affected (0.00 sec)
mysql> SELECT c1, CHAR_LENGTH(c1) FROM t1;
c1 | CHAR_LENGTH(c1) |
| xy | 2 |
1 row in set (0.00 sec)
mysgl> SET sgl mode = 'PAD CHAR TO FULL LENGTH';
Query OK, 0 rows affected (0.00 sec)
mysql> SELECT c1, CHAR_LENGTH(c1) FROM t1;
c1 | CHAR_LENGTH(c1) |
| xy | 10 |
1 row in set (0.00 sec)
```

• PIPES AS CONCAT

Treat | | as a string concatenation operator (same as CONCAT()) rather than as a synonym for OR.

• REAL_AS_FLOAT

Treat REAL as a synonym for FLOAT. By default, MySQL treats REAL as a synonym for DOUBLE.

• STRICT_ALL_TABLES

Enable strict SQL mode for all storage engines. Invalid data values are rejected. For details, see Strict SQL Mode.

• STRICT_TRANS_TABLES

Enable strict SQL mode for transactional storage engines, and when possible for nontransactional storage engines. For details, see Strict SQL Mode.