Adding Tables to a General Tablespace

After creating a general tablespace, `CREATE TABLE tbl_name ... TABLESPACE [=] tablespace_name` or `ALTER TABLE tbl_name TABLESPACE [=] tablespace_name` statements can be used to add tables to the tablespace, as shown in the following examples:

`CREATE TABLE`:

```
mysql> CREATE TABLE t1 (c1 INT PRIMARY KEY) TABLESPACE ts1;
```

`ALTER TABLE`:

```
mysql> ALTER TABLE t2 TABLESPACE ts1;
```

> **Note**
>
> Support for adding table partitions to shared tablespaces was deprecated in MySQL 5.7.24 and removed in MySQL 8.0.13. Shared tablespaces include the `InnoDB` system tablespace and general tablespaces.

For detailed syntax information, see `CREATE TABLE` and `ALTER TABLE`.

General Tablespace Row Format Support

General tablespaces support all table row formats (`REDUNDANT`, `COMPACT`, `DYNAMIC`, `COMPRESSED`) with the caveat that compressed and uncompressed tables cannot coexist in the same general tablespace due to different physical page sizes.

For a general tablespace to contain compressed tables (`ROW_FORMAT=COMPRESSED`), the `FILE_BLOCK_SIZE` option must be specified, and the `FILE_BLOCK_SIZE` value must be a valid compressed page size in relation to the `innodb_page_size` value. Also, the physical page size of the compressed table (`KEY_BLOCK_SIZE`) must be equal to `FILE_BLOCK_SIZE/1024`. For example, if `innodb_page_size=16KB` and `FILE_BLOCK_SIZE=8K`, the `KEY_BLOCK_SIZE` of the table must be 8.

The following table shows permitted `innodb_page_size`, `FILE_BLOCK_SIZE`, and `KEY_BLOCK_SIZE` combinations. `FILE_BLOCK_SIZE` values may also be specified in bytes. To determine a valid `KEY_BLOCK_SIZE` value for a given `FILE_BLOCK_SIZE`, divide the `FILE_BLOCK_SIZE` value by 1024. Table compression is not support for 32K and 64K `InnoDB` page sizes. For more information about `KEY_BLOCK_SIZE`, see `CREATE TABLE`, and Section 15.9.1.2, "Creating Compressed Tables".

Table 15.3 Permitted Page Size, FILE_BLOCK_SIZE, and KEY_BLOCK_SIZE Combinations for Compressed Tables

InnoDB Page Size (innodb_page_size)	Permitted FILE_BLOCK_SIZE Value	Permitted KEY_BLOCK_SIZE Value
64KB	64K (65536)	Compression is not supported
32KB	32K (32768)	Compression is not supported
16KB	16K (16384)	None. If `innodb_page_size` is equal to `FILE_BLOCK_SIZE`, the tablespace cannot contain a compressed table.
16KB	8K (8192)	8
16KB	4K (4096)	4
16KB	2K (2048)	2