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# Pragmas

In LiteDB v5, pragmas are variables that can alter the behavior of a datafile. They are stored in the header of the datafile.

Name	Read-only	Data type	Description	Default value
USER_VERSION	no	int	Reserved for version control by the user. Does not affect the behavior of the datafile.	0
COLLATION	yes (can be changed with a rebuild)	string (internally stored as int)	Check <a href="#">Collation</a> .	CurrentCulture and IgnoreCase

Name	Read-only	Data type	Description	Default value
TIMEOUT	no	int	Maximum amount of time (in seconds) that the engine waits for a shared resource to be unlocked.	60
LIMIT_SIZE	no	long	Maximum size (in bytes) that the datafile can grow to. Cannot be smaller than the current datafile size. Cannot be smaller than 4 pages (32768 bytes).	long.MaxValue
UTC_DATE	no	bool	If <code>false</code> , dates are converted to <b>local time</b> on retrieval. Storage format is not affected (always in UTC).	<code>false</code>
CHECKPOINT	no	int	Maximum number of pages to be stored in the log before a soft checkpoint. If set to <code>0</code> , auto-checkpoint and shutdown checkpoint are disabled.	1000

## Examples

- `select pragmas from $database;` returns the pragmas in the current datafile
- `pragma USER_VERSION = 1;` sets `USER_VERSION` to 1
- `pragma UTC_DATE = true;` sets `UTC_DATE` to true

## Rebuild Options

Rebuild options are used to configure a rebuild.

Name	Data type	Description	Default value
collation	string	Check <a href="#">Collation</a> .	null (will use CurrentCulture and IgnoreCase if null)
password	string	Defines the password for an encrypted datafile.	null (datafile will not be encrypted)

If the `rebuild` command is issued without options, both are assumed to be null.

Rebuilds are also useful to defragment a datafile, making it smaller and faster to access.

- `rebuild;` rebuilds the database with the default collation and no password
- `rebuild {"collation": "en-GB/IgnoreCase"};` rebuilds the datafile with the `en-GB` culture and case-insensitive string comparison
- `rebuild {"collation": "pt-BR/None", "password" : "1234"};` rebuilds the datafile with the `pt-BR` culture, case-sensitive string comparison and sets the password to "1234"

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