String Types

CHAR

- Max length is declared when table is created (i.e. CHAR (50)).
- Length can range from 0 to 255.
- Values are right-padded with spaces to the specified length when stored.
- Trailing spaces are removed upon retrieval.

VARCHAR

- Max length is declared when table is created (i.e. VARCHAR (50)).
- Length can range from 0 to 65,535.
- Values are not right-padded to match the specified length.
- Trailing spaces are retained when a value is stored and retrieved.

BINARY

- Contains byte strings rather than character strings.
- Max length is declared when table is created (i.e. BINARY (50)).
- Max length is a length in bytes rather than characters.
- Values are right-padded with the pad value which is *0x00* (the zero byte).
- Trailing bytes are not removed when value is retrieved.

VARBINARY

- Contains byte strings rather than character strings.
- Max length is declared when table is created (i.e. VARBINARY (50)).
- Max length is a length in bytes rather than characters
- Values are not right-padded to match the length.





String Types

BLOB

- There are four BLOB types that differ based on maximum length: TINYBLOB, BLOB, MEDIUMBLOB, LONGBLOB.
- Values are treated as binary strings.
- Values are not padded on insert.
- Similar to the VARBINARY type except indexes on BL0B columns require a specified prefix length and columns cannot have DEFAULT values.

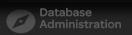
TEXT

- There are four TEXT types that differ based on maximum length: TINYTEXT, TEXT, MEDIUMTEXT, LONGTEXT.
- Values are treated as character strings.
- Values are not padded on insert.
- Similar to the VARCHAR type except indexes on TEXT columns require a specified prefix length and columns cannot have DEFAULT values.

ENUM

- Allows a list of permitted values to be specified upon table creation.
- A column can have a maximum of 65,535 distinct elements.
- Uses numeric values to represent string values.
- Output and queries are easily read.





String Types

SET

- Allows a list of permitted values to be specified upon table creation.
- Column can have up to 64 members.
- Trailing spaces are automatically deleted from member values.
- Values are displayed using the letter case that was used in the column definition.
- Values that contain multiple members from a set are separated using a comma (i.e. val1, val2). Because of this, commas are not permitted in the member values.

