# Create Table

#### Create Table

- CREATE [OR REPLACE] TABLE table\_name (column datatype,...);
- CREATE TABLE [if not exists] table\_name (column datatype,...);

### Column Options

```
create_definition:
{ col_name column_definition | index_definition | period_definition | CHECK (expr) }
column_definition:
data_type
 [NOT NULL | NULL] [DEFAULT default_value | (expression)]
 [ON UPDATE [NOW | CURRENT_TIMESTAMP] [(precision)]]
 [AUTO_INCREMENT] [ZEROFILL] [UNIQUE [KEY] | [PRIMARY] KEY]
 [INVISIBLE] [{WITH|WITHOUT} SYSTEM VERSIONING]
 [COMMENT 'string'] [REF_SYSTEM_ID = value]
 [reference_definition]
| data_type [GENERATED ALWAYS]
AS [ ROW {START|END} [NOT NULL ENABLE] [[PRIMARY] KEY]
   | (expression) [VIRTUAL | PERSISTENT | STORED] ]
  [INVISIBLE] [UNIQUE [KEY]] [COMMENT 'string']
constraint_definition:
 CONSTRAINT [constraint_name] CHECK (expression)
```

## **Table Options**

table\_option:

[STORAGE] ENGINE [=] engine\_name

| AUTO\_INCREMENT [=] number

| AVG\_ROW\_LENGTH [=] number

| [DEFAULT] CHARACTER SET [=] charset\_name

| CHECKSUM [=] {0 | 1}

| [DEFAULT] COLLATE [=] collation\_name

| COMMENT [=] 'string'

| CONNECTION [=] 'connect\_string'

| DATA DIRECTORY [=] 'absolute path to directory'

| DELAY\_KEY\_WRITE [=] {o | 1}

| ENCRYPTED [=] {YES | NO}

| ENCRYPTION\_KEY\_ID [=] number

| IETF\_QUOTES [=] {YES | NO}

| INDEX DIRECTORY [=] 'absolute path to directory'

|INSERT\_METHOD[=]{NO|FIRST|LAST}

| KEY\_BLOCK\_SIZE [=] number

| MAX\_ROWS [=] number

| MIN\_ROWS [=] number

| PACK\_KEYS [=] {o | 1 | DEFAULT}

| PAGE\_CHECKSUM [=] {o | 1}

| PAGE\_COMPRESSED [=] {0 | 1}

| PAGE\_COMPRESSION\_LEVEL [=] {o .. 9}

| PASSWORD[=] 'string

| ROW\_FORMAT[=] {DEFAULT|DYNAMIC|FIXED|COMPRESSED|REDUNDANT|COMPACT|PAGE}

| SEQUENCE [=] {0|1}

| STATS\_AUTO\_RECALC [=] {DEFAULT|0|1}

| STATS\_PERSISTENT [=] {DEFAULT|0|1}

STATS\_SAMPLE\_PAGES [=] {DEFAULT|number}

| TABLESPACE tablespace\_name

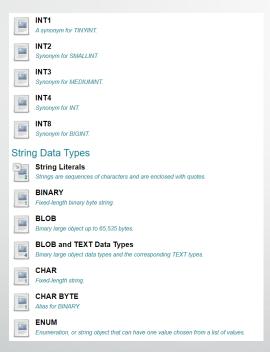
|TRANSACTIONAL[=] {0 | 1}

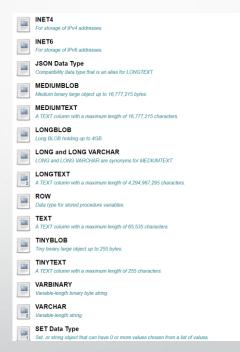
| UNION [=] (tbl\_name[,tbl\_name]...)

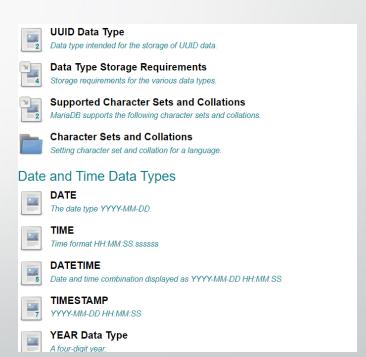
| WITH SYSTEM VERSIONING

### Datatypes









#### CREATETEMPORARYTABLE

CREATE TEMPORARY TABLE table\_name (column datatype);

### CREATE TABLE ... LIKE

CREATE TABLE tab2 LIKE tab1;

### CREATE TABLE ... SELECT

CREATE TABLE tab2 as

Select ...

From tab1

[where conditions];