

# Alter Table

## ALTER TABLE Syntax

```
ALTER TABLE tbl_name  
    [alter_spec [, alter_spec]
```

## Altering Columns

### Adding a column:

```
mysql> ALTER TABLE tbl_name ADD COLUMN col_name  
datatype attribute AFTER col_name;
```

### Dropping a column:

```
mysql> ALTER TABLE tbl_name DROP COLUMN col_name;
```

### Rename a column or table:

```
mysql> ALTER TABLE tbl_name RENAME COLUMN  
old_col_name TO new_col_name;  
mysql> ALTER TABLE tbl_name CHANGE [COLUMN]  
old_col_name new_col_name col_definition;  
mysql> ALTER TABLE tbl_name RENAME TO new_tbl_name;
```

### Modify column definitions:

```
mysql> ALTER TABLE tbl_name MODIFY [COLUMN]  
col_name col_definiton;
```



# Alter Table

## Reorder columns:

```
mysql> ALTER TABLE tbl_name CHANGE [COLUMN]  
col_name col_name col_definition [FIRST | AFTER  
col_name];  
mysql> ALTER TABLE tbl_name MODIFY [COLUMN]  
col_name col_definition [FIRST | AFTER col_name];  
mysql> ALTER TABLE tbl_name ORDER BY col_name [,  
col_name] ...;
```

## Altering Keys and Indexes on Columns

### Add Keys and Indexes:

```
mysql> ALTER TABLE tbl_name ADD PRIMARY KEY  
(col_name);  
mysql> ALTER TABLE tbl_name ADD [symbol] FOREIGN  
KEY (col_name) ref_definition;  
mysql> ALTER TABLE tbl_name ADD UNIQUE (col_name);  
mysql> ALTER TABLE tbl_name ADD INDEX index_name  
(col_name);
```

### Add Keys and Indexes using CHANGE and MODIFY:

```
mysql> ALTER TABLE tbl_name CHANGE col_name  
col_name col_definition;  
mysql> ALTER TABLE tbl_name MODIFY col_name  
col_definition;
```

### Rename indexes:

```
mysql> ALTER TABLE tbl_name RENAME INDEX  
old_index_name TO new_index_name
```



# Alter Table

Drop keys and indexes:

```
mysql> ALTER TABLE tbl_name DROP PRIMARY KEY
```

```
mysql> ALTER TABLE tbl_name DROP FOREIGN KEY  
fk_name;
```

```
mysql> ALTER TABLE tbl_name DROP INDEX index_name;
```

