

# Working with Tables in MySQL

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## Selecting Data from a Table

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### Select All Columns

```
SELECT * FROM users;
```

This fetches every column and every row from the `users` table.

### Select Specific Columns

```
SELECT name, email FROM users;
```

This only fetches the `name` and `email` columns from all rows.

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## Renaming a Table

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To rename an existing table:

```
RENAME TABLE users TO customers;
```

To rename it back:

```
RENAME TABLE customers TO users;
```

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# Altering a Table

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You can use `ALTER TABLE` to modify an existing table.

## Add a Column

```
ALTER TABLE users ADD COLUMN is_active BOOLEAN DEFAULT TRUE;
```

## Drop a Column

```
ALTER TABLE users DROP COLUMN is_active;
```

## Modify a Column Type

```
ALTER TABLE users MODIFY COLUMN name VARCHAR(150);
```

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## Move a Column to the First Position

To move a column (e.g., `email` ) to the first position:

```
ALTER TABLE users MODIFY COLUMN email VARCHAR(100) FIRST;
```

To move a column after another column (e.g., move `gender` after `name` ):

```
ALTER TABLE users MODIFY COLUMN gender ENUM('Male', 'Female', 'Other') AFTER name;
```