

# MYSQL CREATE INDEX

Topics : [MYSQL](#)

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## What is index in MySQL?

Index is used to make data search faster in table. We use index to get the record quickly without searching each row in a database table whenever the table is accessed. We can create an index by using one or more columns of the table for accessing the records.

When we create a table with a primary key or unique key, A special index will be created automatically named PRIMARY. We can call this PRIMARY Key as a clustered index. All indexes other than PRIMARY indexes are known as a non-clustered index or secondary index.

We can get perfect and quickly data from large amount of data using index key in table. It reduces queries execution time.

## How to create index in MySQL?

We can create/add index for table using CREATE INDEX query as per as below.

### MYSQL Syntax:

```
CREATE INDEX index_key  
ON table_name (column1, column2, column2, ....);
```

Duplicate values are allowed using above query.

### MYSQL Syntax:

```
CREATE UNIQUE INDEX index_key  
ON table_name (column1, column2, column2, ....);
```

Above Query creates a unique index on a table. Duplicate values are not allowed.

### Example :

```
CREATE UNIQUE INDEX index_key  
ON tblstudent(stud_name);
```

### MYSQL Syntax:

```
ALTER TABLE table_name ADD INDEX(column);
```

Also you can use ALTER TABLE query to add index for existing column.

**Example :**

```
ALTER TABLE tblstudent ADD INDEX(stud_name);
```

stud\_name field is added as index for tblstudent table. So we can get data quickly by searching student name in large amount of data

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