

MySQL INSERT Statement

MySQL INSERT statement is used to store or add data in MySQL table within the database. We can perform insertion of records in two ways using a single query in MySQL:

- Insert record in a single row
- Insert record in multiple rows

1) Insert record in a single row

Syntax:

```
INSERT INTO table_name ( field1, field2,...fieldN )  
VALUES ( value1, value2,...valueN );
```

Example:

Let us create a table, "People" in the database :

```
CREATE TABLE People(  
    id int NOT NULL AUTO_INCREMENT,  
    name varchar(45) NOT NULL,  
    occupation varchar(35) NOT NULL,  
    age int,  
    PRIMARY KEY (id)  
);
```

- If we want to store single records for all fields, use the syntax as follows:

```
INSERT INTO People (id, name, occupation, age)  
VALUES (101, 'Peter', 'Engineer', 32);
```

2) Insert multiple records

Syntax:

```
INSERT INTO table_name ( field1, field2,...fieldN )  
VALUES ( value1, value2,...valueN ), ( value1, value2,...valueN ),.....;
```

- If we want to store multiple records, use the following statements where we can either specify all field names or don't specify any field.

```
INSERT INTO People VALUES  
(102, 'Joseph', 'Developer', 30),  
(103, 'Mike', 'Leader', 28),  
(104, 'Stephen', 'Scientist', 45);
```

Output of the above statements:

```
mysql> CREATE TABLE People(  
->      id int NOT NULL AUTO_INCREMENT,  
->      name varchar(45) NOT NULL,  
->      occupation varchar(35) NOT NULL,  
->      age int,  
->      PRIMARY KEY (id)  
->  );  
Query OK, 0 rows affected (2.90 sec)
```

Create the table **People**

```
mysql>  
mysql> INSERT INTO People (id, name, occupation, age)  
-> VALUES (101, 'Peter', 'Engineer', 32);  
Query OK, 1 row affected (0.33 sec)
```

Insert one row into **People**

```
mysql> INSERT INTO People VALUES  
-> (102, 'Joseph', 'Developer', 30),  
-> (103, 'Mike', 'Leader', 28),  
-> (104, 'Stephen', 'Scientist', 45);  
Query OK, 3 rows affected (0.17 sec)  
Records: 3  Duplicates: 0  Warnings: 0
```

Insert three rows into
People

```
mysql> SELECT * from People;  
+-----+-----+-----+-----+  
| id | name  | occupation | age |  
+-----+-----+-----+-----+  
| 101 | Peter | Engineer  | 32 |  
| 102 | Joseph | Developer | 30 |  
| 103 | Mike  | Leader    | 28 |  
| 104 | Stephen | Scientist | 45 |  
+-----+-----+-----+-----+  
4 rows in set (0.11 sec)
```