# **SQL INSERT INTO Statement**

**SQL INSERT INTO Statement:**

1. The INSERT INTO statement is used to insert new records in a table.
2. Syntax 1. Specify both the column names and the values to be inserted:

|  |
| --- |
| INSERT INTO table\_name (column1, column2, column3, ...)  VALUES (value1, value2, value3, ...); |

1. Syntax 2. If you are adding values for all the columns of the table, you do not need to specify the column names in the SQL query. However, make sure the order of the values is in the same order as the columns in the table. Here, the INSERT INTO syntax would be as follows:

|  |
| --- |
| INSERT INTO table\_name  VALUES (value1, value2, value3, ...); |

**INSERT INTO Example:**

1. The following SQL statement inserts a new record in the "Customers" table:

|  |
| --- |
| INSERT INTO Customers (CustomerName, ContactName, Address, City, PostalCode, Country)  VALUES ('Cardinal', 'Tom B. Erichsen', 'Skagen 21', 'Stavanger', '4006', 'Norway'); |

The selection from the "Customers" table will now look like this:

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **CustomerID** | **CustomerName** | **ContactName** | **Address** | **City** | **PostalCode** | **Country** |
| 89 | White Clover Markets | Karl Jablonski | 305 - 14th Ave. S. Suite 3B | Seattle | 98128 | USA |
| 90 | Wilman Kala | Matti Karttunen | Keskuskatu 45 | Helsinki | 21240 | Finland |
| 91 | Wolski | Zbyszek | ul. Filtrowa 68 | Walla | 01-012 | Poland |
| 92 | Cardinal | Tom B. Erichsen | Skagen 21 | Stavanger | 4006 | Norway |

**Insert Data Only in Specified Columns:**

1. It is also possible to only insert data in specific columns.
2. The following SQL statement will insert a new record, but only insert data in the "CustomerName", "City", and "Country" columns (CustomerID will be updated automatically):

|  |
| --- |
| INSERT INTO Customers (CustomerName, City, Country)  VALUES ('Cardinal', 'Stavanger', 'Norway'); |

The selection from the "Customers" table will now look like this:

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **CustomerID** | **CustomerName** | **ContactName** | **Address** | **City** | **PostalCode** | **Country** |
| 89 | White Clover Markets | Karl Jablonski | 305 - 14th Ave. S. Suite 3B | Seattle | 98128 | USA |
| 90 | Wilman Kala | Matti Karttunen | Keskuskatu 45 | Helsinki | 21240 | Finland |
| 91 | Wolski | Zbyszek | ul. Filtrowa 68 | Walla | 01-012 | Poland |
| 92 | Cardinal | null | null | Stavanger | null | Norway |

**Insert Multiple Rows:**

1. It is also possible to insert multiple rows in one statement.
2. To insert multiple rows of data, we use the same INSERT INTO statement, but with multiple values:

|  |
| --- |
| INSERT INTO Customers (CustomerName, ContactName, Address, City, PostalCode, Country)  VALUES  ('Cardinal', 'Tom B. Erichsen', 'Skagen 21', 'Stavanger', '4006', 'Norway'),  ('Greasy Burger', 'Per Olsen', 'Gateveien 15', 'Sandnes', '4306', 'Norway'),  ('Tasty Tee', 'Finn Egan', 'Streetroad 19B', 'Liverpool', 'L1 0AA', 'UK'); |

1. Make sure you separate each set of values with a comma ,.
2. The selection from the "Customers" table will now look like this:

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **CustomerID** | **CustomerName** | **ContactName** | **Address** | **City** | **PostalCode** | **Country** |
| 89 | White Clover Markets | Karl Jablonski | 305 - 14th Ave. S. Suite 3B | Seattle | 98128 | USA |
| 90 | Wilman Kala | Matti Karttunen | Keskuskatu 45 | Helsinki | 21240 | Finland |
| 91 | Wolski | Zbyszek | ul. Filtrowa 68 | Walla | 01-012 | Poland |
| 92 | Cardinal | Tom B. Erichsen | Skagen 21 | Stavanger | 4006 | Norway |
| 93 | Greasy Burger | Per Olsen | Gateveien 15 | Sandnes | 4306 | Norway |
| 94 | Tasty Tee | Finn Egan | Streetroad 19B | Liverpool | L1 0AA | UK |