# **SQL ALTER TABLE**

SQL ALTER TABLE Statement to rename table name, add new column, modify existing column (data type, size, etc.), rename the column, drop the table column.

SQL ALTER TABLE statement is a powerful statement to add, manage or update table structure.

ALTER TABLE Statement to you can do following thing,

- SQL TABLE RENAME
- ADD NEW COLUMN IN TABLE
- MODIFY EXISTING COLUMN IN TABLE
- RENAME COLUMN IN TABLE
- DROP THE EXISTING COLUMN IN TABLE

## **SQL TABLE RENAME**

You can rename the SQL table using this syntax,

### **Syntax**

```
ALTER TABLE table_name

RENAME TO new_table_name;
```

#### Example

```
SQL> ALTER TABLE userinfo RENAME TO user_info;

Table altered.
```

# SQL ADD NEW COLUMN IN TABLE

You can add new column in table using this syntax,

## **Syntax**

```
ALTER TABLE table_name
ADD column_name datatype[(size)];
```

#### Example

```
SQL> ALTER TABLE user_info ADD state VARCHAR2(12);
Table altered.
```

# SQL ADD MULTIPLE COLUMN IN TABLE

You can add multiple column in table at a time using this syntax,

### Syntax

### Example

# SQL MODIFY EXISTING COLUMN IN TABLE

You can modify the existing column datatype, size, NOT NULL or CONSTRAINS in table using this syntax,

```
ALTER TABLE table_name

MODIFY column_name column_datatype[(size)];
```

### Example

In this example DESC table structure before execute ALTER statement. ALTER Statement to MODIFY the column size. After alter table again DESC table structure.

```
SQL> DESC user_info;
Name
                        Null? Type
NO
                                NUMBER(3)
NAME
                                VARCHAR2 (50)
ADDRESS
                                VARCHAR2 (70)
STATE
                                 VARCHAR2(12)
SQL> ALTER TABLE user_info MODIFY state VARCHAR2(10);
Table altered.
SQL> DESC user_info;
        Null? Type
Name
NO
                                NUMBER(3)
                                VARCHAR2 (50)
NAME
ADDRESS
                                VARCHAR2 (70)
STATE
                                 VARCHAR2(12)
```

Same way you can modify multiple existing column in table using following syntax,

#### **Syntax**

```
ALTER TABLE table_name
   MODIFY (column_name1 column_datatype[(size)],
        column_name2 column_datatype[(size)],
        ...
);
```

# SQL RENAME COLUMN IN TABLE

You can rename the existing column in table using this syntax,

### **Syntax**

```
ALTER TABLE table_name

RENAME COLUMN old_column_name TO new_column_name;
```

#### Example

```
SQL> ALTER TABLE user_info
    RENAME COLUMN no TO sno;

Table altered.
```

# SQL DROP THE COLUMN IN TABLE

You can drop existing column in table using this syntax,

# Syntax

```
ALTER TABLE table_name

DROP COLUMN column_name;
```

### Example

This example line 8 country column drop using alter table statement.

```
SQL> DESC user_info;
Name
                               Null? Type
SNO
                                         NUMBER (3)
                                         VARCHAR2(50)
NAME
                                        VARCHAR2 (70)
ADDRESS
STATE
                                         VARCHAR2 (10)
                                        VARCHAR2(30)
COUNTRY
SQL> ALTER TABLE user_info DROP COLUMN country;
Table altered.
SQL> DESC user_info;
                               Null? Type
Name
SNO
                                        NUMBER(3)
                                        VARCHAR2 (50)
NAME
ADDRESS
                                        VARCHAR2 (70)
                                         VARCHAR2(10)
STATE
```