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## SQL CHECK Constraint

In this tutorial, we'll learn about the CHECK constraint in SQL and how to use them with examples.

In SQL, the `CHECK` constraint is used to specify the condition that must be validated in order to insert data to a table. For example,

```
CREATE TABLE Orders (  
  order_id INT PRIMARY KEY,  
  amount INT CHECK (amount > 0)  
);
```

Run Code >>

Here, the amount column has a check condition: **greater than 0**. Now, let's try to insert records to the Orders table.

### Example 1

```
-- amount equal to 100  
-- record is inserted  
INSERT INTO Orders(amount) VALUES(100);
```

Run Code >>

### Example 2

```
-- amount equal to -5  
-- results in an error  
INSERT INTO Orders(amount) VALUES(-5);
```

Run Code >>

**Note:** The `CHECK` constraint is used to validate data while insertion only. To check if the row exists or not, visit [SQL EXISTS](#).

## Create Named CHECK Constraint

It's a good practice to create **named constraints** so that it is easier to alter and drop constraints.

Here's an example to create named `CHECK` constraint:

```
-- creates a named constraint named amount CK  
-- the constraint makes sure that amount is greater than 0  
CREATE TABLE Orders (  
  order_id INT PRIMARY KEY,  
  amount INT,  
  CONSTRAINT amountCK CHECK (amount > 0)  
);
```

Run Code >>

## CHECK Constraint in Existing Table

We can add the `CHECK` constraint to an existing table by using the `ALTER TABLE` clause. For example,

```
-- Adding CHECK constraint without name  
  
ALTER TABLE Orders  
ADD CHECK (amount > 0);
```

Here's how we can add a named `CHECK` constraint. For example,

```
-- Adding CHECK constraint named amountCK  
  
ALTER TABLE Orders  
ADD CONSTRAINT amountCK CHECK (amount > 0);
```

**Note:** If we try to add the `CHECK` constraint `amount > 0` to a column that already has value less than 0, we will get an error.

## Remove CHECK Constraint

We can remove the `CHECK` constraint using the `DROP` clause. For example,

### SQL Server, PostgreSQL, Oracle

```
-- removing CHECK constraint named amountCK  
ALTER TABLE Orders  
DROP CONSTRAINT amountCK;
```

### MySQL

```
-- removing CHECK constraint named amountCK  
ALTER TABLE Orders  
DROP CHECK amountCK;
```

### Recommended Readings: [SQL Constraints](#)

Previous Tutorial:  
[SQL Foreign Key](#)

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[SQL Default](#) >

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