

# SQL CHECK Constraint

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## SQL CHECK Constraint

The CHECK constraint is used to limit the value range that can be placed in a column.

If you define a CHECK constraint on a single column it allows only certain values for this column.

If you define a CHECK constraint on a table it can limit the values in certain columns based on values in other columns in the row.

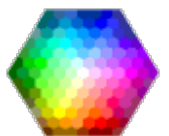
## SQL CHECK on CREATE TABLE

The following SQL creates a CHECK constraint on the "Age" column when the "Persons" table is created. The CHECK constraint ensures that you can not have any person below 18 years:

**MySQL:**

```
CREATE TABLE Persons (
```

COLOR  
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TO

```
ID int NOT NULL,  
LastName varchar(255) NOT NULL,  
FirstName varchar(255),  
Age int,  
CHECK (Age>=18)  
);
```

### SQL Server / Oracle / MS Access:

```
CREATE TABLE Persons (  
    ID int NOT NULL,  
    LastName varchar(255) NOT NULL,  
    FirstName varchar(255),  
    Age int CHECK (Age>=18)  
);
```

To allow naming of a CHECK constraint, and for defining a CHECK constraint on multiple columns, use the following SQL syntax:

### MySQL / SQL Server / Oracle / MS Access:

```
CREATE TABLE Persons (  
    ID int NOT NULL,  
    LastName varchar(255) NOT NULL,  
    FirstName varchar(255),  
    Age int,  
    City varchar(255),  
    CONSTRAINT CHK_Person CHECK (Age>=18  
AND City='Sandnes')  
);
```

## SQL CHECK on ALTER TABLE

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Navigation  
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List

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To create a CHECK constraint on the "Age" column when the table is already created, use the following SQL:

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**MySQL / SQL Server / Oracle / MS Access:**

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```
ADD CHECK (Age>=18);
```

To allow naming of a CHECK constraint, and for defining a CHECK constraint on multiple columns, use the following SQL syntax:

**MySQL / SQL Server / Oracle / MS Access:**

```
ALTER TABLE Persons
ADD CONSTRAINT CHK_PersonAge CHECK
(Age>=18 AND City='Sandnes');
```

## DROP a CHECK Constraint

To drop a CHECK constraint, use the following SQL:

**SQL Server / Oracle / MS Access:**

```
ALTER TABLE Persons
DROP CONSTRAINT CHK_PersonAge;
```

**MySQL:**

```
ALTER TABLE Persons
```

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```
DROP CHECK CHK_PersonAge;
```

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