



HTML







THE WORLD'S LARGEST WEB DEVELOPER SITE

Bootstrap Website Builder

Create awesome Bootstrap websites!

No coding and free, 400+ pre-made blocks.





SQL FOREIGN KEY Constraint

Previous

Next >

SQL FOREIGN KEY Constraint

A FOREIGN KEY is a key used to link two tables together.

A FOREIGN KEY is a field (or collection of fields) in one table that refers to the PRIMARY KEY in another table.

The table containing the foreign key is called the child table, and the table containing the candidate key is called the referenced or parent table.

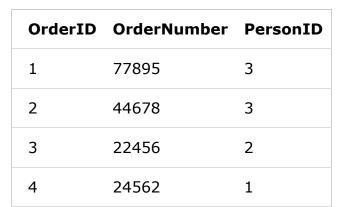
Look at the following two tables:

"Persons" table:

PersonID	LastName	FirstName	Age
1	Hansen	Ola	30
2	Svendson	Tove	23
3	Pettersen	Kari	20







Notice that the "PersonID" column in the "Orders" table points to the "PersonID" column in the "Persons" table.

The "PersonID" column in the "Persons" table is the PRIMARY KEY in the "Persons" table.

The "PersonID" column in the "Orders" table is a FOREIGN KEY in the "Orders" table.

The FOREIGN KEY constraint is used to prevent actions that would destroy links between tables.

The FOREIGN KEY constraint also prevents invalid data from being inserted into the foreign key column, because it has to be one of the values contained in the table it points to.



SQL FOREIGN KEY on CREATE TABLE

The following SQL creates a FOREIGN KEY on the "PersonID" column when the "Orders" table is created:

MySQL:

```
HTML CSS JAVASCRIPT MORE ▼

CREATE TABLE Orders (

OrderID int NOT NULL,

OrderNumber int NOT NULL,

PersonID int,

PRIMARY KEY (OrderID),

FOREIGN KEY (PersonID) REFERENCES Persons(PersonID)

);
```

SQL Server / Oracle / MS Access:

```
CREATE TABLE Orders (
    OrderID int NOT NULL PRIMARY KEY,
    OrderNumber int NOT NULL,
    PersonID int FOREIGN KEY REFERENCES Persons(PersonID)
);
```

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

MySQL / SQL Server / Oracle / MS Access:

```
CREATE TABLE Orders (
    OrderID int NOT NULL,
    OrderNumber int NOT NULL,
    PersonID int,
    PRIMARY KEY (OrderID),
    CONSTRAINT FK_PersonOrder FOREIGN KEY (PersonID)
    REFERENCES Persons(PersonID)
);
```





To create a FOREIGN KEY constraint on the "PersonID" column when the "Orders" table is already created, use the following SQL:

MySQL / SQL Server / Oracle / MS Access:

```
ALTER TABLE Orders

ADD FOREIGN KEY (PersonID) REFERENCES Persons(PersonID);
```

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

MySQL / SQL Server / Oracle / MS Access:

```
ALTER TABLE Orders

ADD CONSTRAINT FK_PersonOrder

FOREIGN KEY (PersonID) REFERENCES Persons(PersonID);
```

DROP a FOREIGN KEY Constraint

To drop a FOREIGN KEY constraint, use the following SQL:

MySQL:

```
ALTER TABLE Orders
DROP FOREIGN KEY FK_PersonOrder;
```

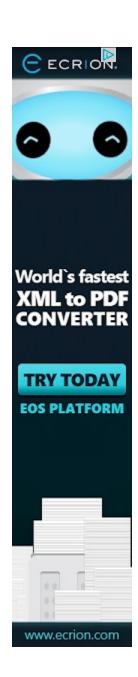
SQL Server / Oracle / MS Access:





Previous

Next >



 \equiv







LEARN MORE

Tabs Dropdowns Accordions **Convert Weights Animated Buttons** Side Navigation Top Navigation JS Animations Modal Boxes Progress Bars Parallax Login Form **HTML Includes** Google Maps Loaders **Tooltips** Slideshow Filter List Sort List

SHARE









CERTIFICATES

HTML, CSS, JavaScript, PHP, jQuery, Bootstrap and XML.











REPORT ERROR PRINT PAGE FORUM ABOUT

Top 10 Tutorials

HTML Tutorial
CSS Tutorial
JavaScript Tutorial
W3.CSS Tutorial
Bootstrap Tutorial
SQL Tutorial

Top 10 References

HTML Reference CSS Reference JavaScript Reference W3.CSS Reference Browser Statistics PHP Reference





PHP Tutorial Hithely Tutorias **Angular Tutorial** XML Tutorial

JAVASCRIPT

HTML Colors MORETML Character Sets jQuery Reference AngularJS Reference







Top 10 Examples

Free **Angel**

Reading

HTML Examples CSS Examples JavaScript Examples W3.CSS Examples HTML DOM Examples PHP Examples **ASP Examples** jQuery Examples **Angular Examples** XML Examples

Web Certificates

HTML Certificate **CSS** Certificate JavaScript Certificate jQuery Certificate PHP Certificate Bootstrap Certificate XML Certificate

Limited Offer:

Washools is optimized for learning, testing, and training. Examples might be simplified to improve reading and basic understanding. Tutorials, references, and examples are constantly reviewed to avoid EAGS nalt we cannot warrant full correctness of all content. While using this site, you agree to have read and carcepted our terms of use, cookie and privacy policy. Copyright 1999-2017 by Refsnes Data. All Rights Reserved.

Reading for

Free

Powered by W3.CSS.



my-angelreading.com