Zwei Tabellen mit Fremdschlüsselbeziehung

CREATE TABLE R (  
    ID int PRIMARY KEY,  
    a int  
)  

CREATE TABLE S (  
    ID int PRIMARY KEY,  
    FKaufR int REFERENCES R  
)
Beispieldaten erzeugen...

```
INSERT INTO R
VALUES (1, 47), (2, 42), (3, 32)
```

```
INSERT INTO S
VALUES (1, 2), (2, 1), (3, 2)
```
Daten aus R löschen...

DELETE FROM R
WHERE ID=2

ERROR: update or delete on table "r" violates foreign key constraint "s_fkauf_r_fkey" on table "s"
DETAIL: Key (id)=(2) is still referenced from table "s".

DELETE FROM R
WHERE ID=3

Query returned successfully: one row affected, 19 ms execution time.
CREATE TABLE R ( 
  ID int PRIMARY KEY, 
  a int 
) 

CREATE TABLE S ( 
  ID int PRIMARY KEY, 
  FKaufR int REFERENCES R 
)
NO ACTION

CREATE TABLE R (  
    ID int PRIMARY KEY,  
    a int  
  )

CREATE TABLE S (  
    ID int PRIMARY KEY,  
    FKaufR int REFERENCES R  
    ON DELETE NO ACTION  
    ON UPDATE NO ACTION  
  )
SET NULL

CREATE TABLE R ( 
    ID int PRIMARY KEY,
    a int
)

CREATE TABLE S ( 
    ID int PRIMARY KEY,
    FKaufR int REFERENCES R ON DELETE SET NULL
)
DELETE FROM R
WHERE ID=2

Query returned successfully: one row affected, 20 ms execution time.

vorher

nachher
CASCADE

CREATE TABLE R ( 
    ID int PRIMARY KEY,
    a int
 )

CREATE TABLE S ( 
    ID int PRIMARY KEY,
    FKaufR int REFERENCES R

    ON DELETE CASCADE
 )
 CASCADE: Daten aus R löschen...

```
DELETE FROM R
WHERE ID=2
```

Query returned successfully: one row affected, 20 ms execution time.
SET DEFAULT

CREATE TABLE R (
    ID  int PRIMARY KEY,
    a   int
)

CREATE TABLE S (
    ID  int PRIMARY KEY,
    FKaufR int DEFAULT 3 REFERENCES R ON DELETE SET DEFAULT
)

SET DEFAULT: Daten aus R löschen...

DELETE FROM R WHERE ID=2

Query returned successfully: one row affected, 20 ms execution time.

Vorher:

<table>
<thead>
<tr>
<th>id</th>
<th>fkaufnr</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>2</td>
</tr>
<tr>
<td>2</td>
<td>1</td>
</tr>
<tr>
<td>3</td>
<td>2</td>
</tr>
</tbody>
</table>

Nachher:

<table>
<thead>
<tr>
<th>id</th>
<th>fkaufnr</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>3</td>
</tr>
<tr>
<td>2</td>
<td>1</td>
</tr>
<tr>
<td>3</td>
<td>3</td>
</tr>
</tbody>
</table>
DROP TABLE CASCADE

ERROR: cannot drop table r because other objects depend on it
DETAIL: constraint s_fkaufr_fkey on table s depends on table r
HINT: Use DROP ... CASCADE to drop the dependent objects too.

DROP TABLE R

vorher

nachher
Effekt von DROP TABLE CASCADE

CREATE TABLE S (  
  ID int PRIMARY KEY,  
  FKaufR int DEFAULT 3 
)