

SQL – a data problem

This query works nicely across two tables:

```
SELECT Airport.AirportName,  
Airport.Terminals, Country.Currency  
FROM Airport, Country  
WHERE Airport.Terminals > 2 AND  
Airport.CountryName = Country.CountryName  
ORDER BY Airport.AirportName ASC;
```

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The query relies on the two tables being **joined** together by the **foreign key**.

So, the `CountryName` field exists in both tables

So, what happens if you delete a country from the `Country` table? (say “Germany”?)

The `CountryName` field in the `Airports` table still includes “Germany”

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So, what happens if you delete a country from the `Country` table? (say “Germany”?)

The `CountryName` field in the `Airport` table still includes “Germany”

How’s that going to work?

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1. Load up the `Airport` database
2. Run this `SELECT` query to prove that it works:

```
SELECT Airport.AirportName,  
Country.Currency  
FROM Airport, Country  
WHERE Airport.CountryName =  
Country.CountryName;
```

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3. Run a `DELETE` query to delete “Germany” from the `Country` table:

```
DELETE FROM Country  
WHERE CountryName = “Germany”;
```

4. Then run a simple `SELECT` query to check the state of the table:

```
SELECT *  
FROM Country;
```

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4. Then run a simple `SELECT` query to check the state of the `Country` table:

```
SELECT *  
  
FROM Country;
```

5. And the same query to check the state of the `Airport` table:

```
SELECT *  
  
FROM Airport;
```

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So, the `Airport` table still contains airports in Germany, but Germany no longer exists in the `Country` table.

So, what happens if we run the `SELECT` query from part 2 again?

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6. Then run the `SELECT` query again:

```
SELECT Airport.AirportName,  
Country.Currency  
FROM Airport, Country  
WHERE Airport.CountryName =  
Country.CountryName;
```

What happens? Why? Is this a problem? What should be done to manage it?