

Projektdokumentation: Iteration No. 2

Christoph van Heteren-Frese (Matr.-Nr.: 4465677),
Sven Wildermann (Matr.-Nr.: 4567553)

Erzeugen der Relationen/Tabellen

Beispiel: geodb_coordinates

```
1 CREATE TABLE geodb_coordinates (  
2     loc_id integer not null,  
3     coord_type integer not null,  
4     lat numeric(10,8),  
5     lon numeric(11,8),  
6     coord_subtype integer,  
7     valid_since integer,  
8     data_type_since integer,  
9     valid_until date not null,  
10    date_type_until integer not null  
11 );
```

Beispiel: zip_coordinates

```
1 CREATE TABLE zip_coordinates (  
2     zc_id serial NOT NULL PRIMARY KEY,  
3     zc_loc_id INT NOT NULL ,  
4     zc_zip VARCHAR( 10 ) NOT NULL ,  
5     zc_location_name VARCHAR( 255 ) NOT NULL ,  
6     zc_lat float NOT NULL ,  
7     zc_lon float NOT NULL  
8 );
```

Datenimport

Beispiel: Städte-Relation/zip_coordinates

```
1 INSERT INTO zip_coordinates (zc_loc_id,zc_zip, zc_location_name, zc_lat, zc_lon)  
2 SELECT gl.loc_id, plz.text_val1, name.text_val1, coord.lat, coord.lon  
3 FROM geodb_textdata plz  
4 LEFT JOIN geodb_textdata name ON plz.loc_id = name.loc_id  
5 LEFT JOIN geodb_locations gl ON plz.loc_id = gl.loc_id  
6 LEFT JOIN geodb_coordinates coord ON plz.loc_id = coord.loc_id  
7 WHERE plz.text_type = 500300000  
8 AND name.text_type = 500100000  
9 AND gl.loc_type IN (100600000,100700000);
```

Erweiterungen

Beispiel: zusätzliches Feld Vorwahl

```
1 SELECT gl.loc_id, plz.text_val1, name.text_val1, vorwahl.text_val1,  
2     coord.lat, coord.lon  
3 FROM geodb_textdata plz
```

```
4  LEFT JOIN geodb_textdata name ON plz.loc_id = name.loc_id
5  LEFT JOIN geodb_textdata vorwahl ON plz.loc_id = vorwahl.loc_id
6  LEFT JOIN geodb_locations gl ON plz.loc_id = gl.loc_id
7  LEFT JOIN geodb_coordinates coord ON plz.loc_id = coord.loc_id
8  WHERE plz.text_type = 500300000
9  AND name.text_type = 500100000
10 AND vorwahl.text_type = 500400000
11 AND gl.loc_type IN (100600000,100700000);
```