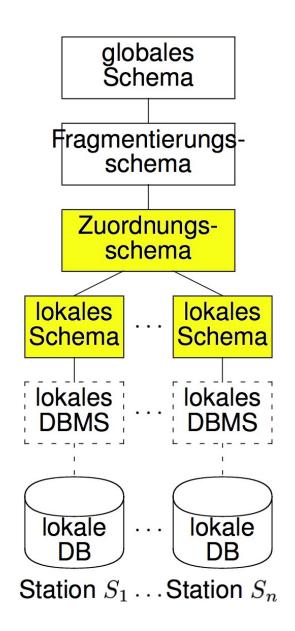


Verteilte Datenbanken Postgres



Status

- Lokale Datenbank
- Fragmentierung
 - o horizontal
 - o vertical
 - o combination
- Allokation
 - o Postgres
 - o Oracle





- Verwendung des Postgres Moduls postgres_fdw module
- "used to access data stored in external PostgreSQL servers"
- Documentation: http://www.postgresql.org/docs/9.4/static/postgres-fdw.html
- Lokale Datenbank
 - o alle Bestellungen von Quartal 3 und 4
 - → horizontal.orders_q34
- Entfernte Datenbank
 - o alle Bestellungen von Quartal 1 und 2
 - → horizontal.orders_q12



- Postgres on Local Database (psql cmd: user ds2, db ds2)
 - o activation of postgres extionsion

```
CREATE EXTENSION postgres fdw;
```

o definition server

```
CREATE SERVER foreign_server
FOREIGN DATA WRAPPER postgres_fdw
OPTIONS
(host '10.5.105.87', port '5432', dbname 'ds2');
```

o definition user mapping

```
CREATE USER MAPPING FOR ds2

SERVER foreign_server

OPTIONS (user 'ds2', password 'ds2');
```



o definition of remote table



- Postgres on Remote Databas / settings postgres server
 - o postgresql.conf
 (/etc/postgresql/9.4/main)

postgresql restarten

o pg_hba.conf
 (/etc/postgresql/9.4/main)

# TYPE	DATABASE	USER	ADDRESS	METHOD
local	all	all		peer
host	all	all	127.0.0.1/32	md5
host	all	all	::1/128	md5
host	ds2	ds2	samenet	md5