Geodatabase in Zeeland

Open en in verbinding!







Open en in verbinding!





OVERVIEW





Overview

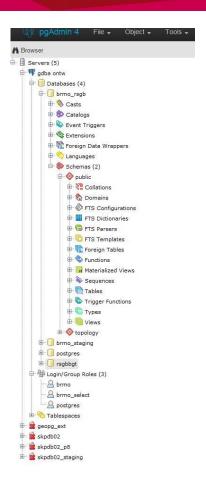
- Introductie PostgreSQL en Postgis
- Waarom PostgreSQL en Postgis?
- Wat zit er in PostgreSQL/Postgis?
- Inrichting PostgreSQL
- Casuïstiek



Introductie PostgreSQL en Postgis

RDBMS Relational Database Management System, ondersteunt SQL standard (SQL Structured Query Language) Spatial database extension Postgis Functies algemeen:

gegevensopslag in tables met foreign keys transactionele integriteit gegevens benaderen met queries en views

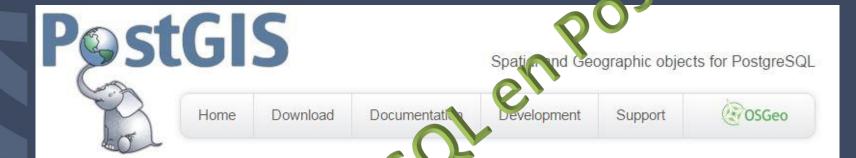








t advanced







Waarom PostgreSQL en Postgis?

- Open Source
- Zeer geschikt voor het publiceren van geometrische data
- Één op één met open standaarden van het OGC, Open Geospatial Consortium, uitwisselbaarheid gegevens
- Bewezen oplossing in het publiceren van geografische data

```
show PostgreSQL usage and distribution terms 
show most recent error message at maximum verbosity 
execute query (and send results to file or |pipe) 
execute query, then execute each value in its result 
execute query, and store results in psql variables 
quit msql
                                        show PostgreSQL usage and distribution terms
 quit psql

(Crosstabview [COLUMNS] execute query and display results in crosstab

(vertile cost)

(vertile query every SSC saronds
g [FILE] or ;
\gset [PREFIX]
                                             show help on backslash commands
show help on psql command-line options
show help on special variables
help on syntax of SQL commands, « for all commands
   watch [SEC]
                                            edit the query buffer (or file) with external editor is edit function definition with external editor edit view definition with external editor show the contents of the query buffer reset (clear) the query buffer display history or save it to file write query buffer to file
        options
variables
      ery Buffer
\e [FILE] [LINE]
      \ef [FUNCNAME [LINE]]
\ev [VIEWNAME [LINE]]
                                                     perform SQL COPY with data stream to the client host
        \s [FILE]
                                                    write string to standard output
execute commands from file
                                                    execute commands from file as \i, but relative to location of current script send all query results to file or |pipe write string to query output stream (see \o)
            \i FILE
            ir FILE
            \o [FILE]
\qecho [STRING]
             normatronar
(options: 5 = show system objects, + = additional detail)
                                                         list tables, views, and sequences
describe table, view, sequence, or index
                                                           list aggregates
                              NAME
[PATTERN]
[PATTERN]
                                                           list access methods
                                                            list tablespaces
                                                            show object descriptions not displayed elsewhere
                               [PATTERN]
                                [PATTERN]
                                                             list default privileges
                                 [PATTERN]
                                  [PATTERN]
                                                              list domains
                                  [PATTERN]
                                                              list foreign tables
                                   [PATTERN]
                                                               list foreign servers
                                                               list user mappings
list foreign-data wrappers
                                                                hist rdrengn-data wrappers
hist [only agg/normal/trigger/window] functions
list text search configurations
list text search dichiocomics
                                   [PATTERN]
                                     [PATTERN]
                                                                  list text search dictionaries
                       \df[antw][S+] [PATRN]
                                                                  list text search parsers
list text search templates
                                                                   list indexes
list large objects, same as \lo_list
list procedural languages
list materialized views
                                         PATTERN
                                           [PATTERN]
```





Wat zit er in PostgreSQL/Postgis?

Wat zit er in PostgreSQL/Postgis?

- data types
 - Numeric Types
 - Monetary Types
 - Character Types
 - Binary Data Types
 - Date/Time Types
 - Boolean Type
 - Enumerated Types
 - Geometric Types
 - bv. multipolygon, point, polygon, geometry(postgis extension)
 - o overige:

Network Address Types, Bit String Types, Text Search Types, UUID Type, XML Type, JSON Types, Arrays, Composite Types, Range Types, Object Identifier Types, pg_Isn Type, Pseudo-Types

- functions
- operators
- aggregate functions
- index methoden
- procedural languages



Inrichting PostgreSQL

Inrichting PostgreSQL

- installatie server, benaderen met client, meer connecties tegelijkertijd
- installatie van een cluster,
- bestaat uit databases, een standaard systeem database postgres en aan te maken gebruikersdatabases,
- database bestaat uit schema's, public is standaard schema,
- schema bestaat uit onder meer uit objecten, zoals tables en vastgelegde queries in de vorm van views
- rollen, roles, worden per database aangemaakt; een subset van roles zijn login roles, users



Casussen



Casussen

- Voorbeeld Postgresql Geoserver Qgis
- Voorbeeld gebruik geometrische functies

