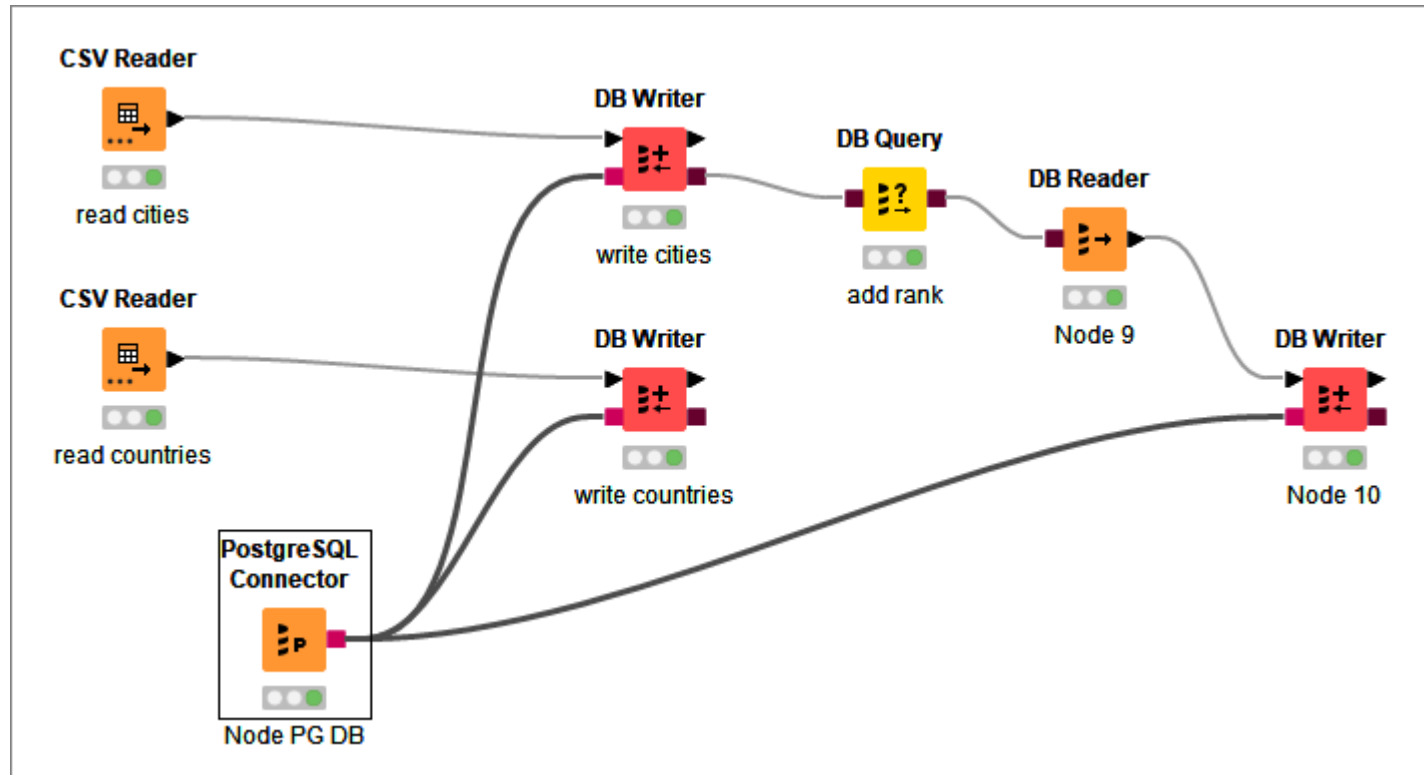


Reporting based on data from geonames.org

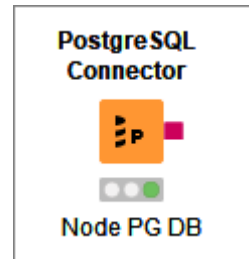
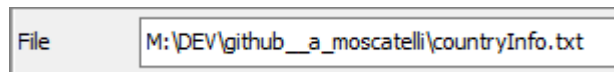
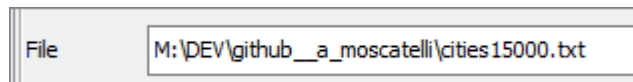
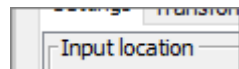
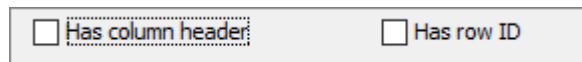
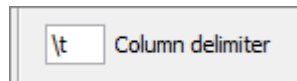
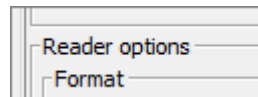
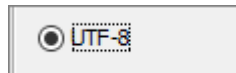
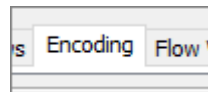
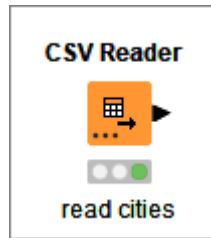
<http://download.geonames.org/export/dump/readme.txt>

KNIME wf

KNIME 4.6.1



KNIME cfg 1



| | |
|--|--|
| Database Dialect: | PostgreSQL |
| Driver Name: | Driver for PostgreSQL v. 42.3.5 [ID: built-in-postgres-42.3.5] |
| Location | |
| Hostname | localhost |
| Database name | postgres |
| Authentication | |
| <input type="radio"/> Credentials | |
| <input checked="" type="radio"/> Username & password | |
| Username: | postgres |
| Password: | •••••••• |
| <input type="radio"/> Kerberos | |

KNIME cfg 2

Table:

☒ Remove existing table

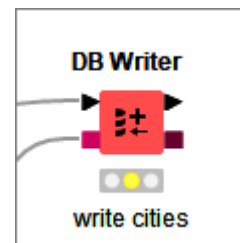
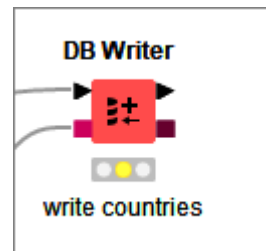


Table:

☒ Remove existing table



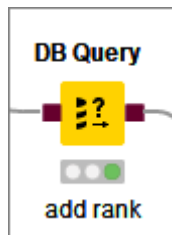
Get Data

- All
- File
- Database
- Power Platform
- Azure

Database

- IBM Informix database (Beta)
- IBM Netezza
- MySQL database
- PostgreSQL database
- SQL Server



KNIME cfg 3



```
SQL Statement
1 select
2   ct."Column0" as ctid,
3   ct."Column1" as ctnm,
4   ct."Column14" as ctpop,
5   ct."Column8" as ctcn,
6   RANK() OVER(
7     PARTITION BY ct."Column8"
8     ORDER BY ct."Column14" desc
9   ) AS ct_populrank_in_cn
10  from #table# as ct
11
12
```

```
select
ct."Column0" as ctid,
ct."Column1" as ctnm,
ct."Column14" as ctpop,
ct."Column8" as ctcn,
RANK() OVER(
  PARTITION BY ct."Column8"
  ORDER BY ct."Column14" desc
) AS ct_populrank_in_cn
from public.cities as ct
```

DB client

| | | | |
|------------------|--|---|----------|
| Connection Type: |  PostgreSQL | | |
| Connection Name: | pg docker knife | | |
| Host Name: | localhost | | |
| Port: | 5432 |  | |
| User Name: | postgres | Password: | ●●●●●●●● |
| Database: | postgres | | |

☒ Use Unicode

SQL v1

```
select
  cn."Column4" country,
  ct."Column1" country_maxpopcity_name,
  ct."Column14" country_maxpopcity_pop
from public.cities ct, public.countries cn
where cn."Column0" = ct."Column8"
and not exists (
  select * from public.cities ultract
  where
    ultract."Column14" > ct."Column14"
    and ultract."Column8" = ct."Column8"
)
order by ct."Column14" desc limit 15
```

| | country | country_maxpopcity_name | country_maxpopcity_pop |
|----|--|-------------------------|------------------------|
| 1 | <input type="checkbox"/> China | Shanghai | 22315474 |
| 2 | <input type="checkbox"/> Argentina | Buenos Aires | 13076300 |
| 3 | <input type="checkbox"/> India | Mumbai | 12691836 |
| 4 | <input type="checkbox"/> Mexico | Mexico City | 12294193 |
| 5 | <input type="checkbox"/> Pakistan | Karachi | 11624219 |
| 6 | <input type="checkbox"/> Turkey | İstanbul | 11174257 |
| 7 | <input type="checkbox"/> Philippines | Manila | 10444527 |
| 8 | <input type="checkbox"/> Russia | Moscow | 10381222 |
| 9 | <input type="checkbox"/> Bangladesh | Dhaka | 10356500 |
| 10 | <input type="checkbox"/> South Korea | Seoul | 10349312 |
| 11 | <input type="checkbox"/> Brazil | São Paulo | 10021295 |
| 12 | <input type="checkbox"/> Nigeria | Lagos | 9000000 |
| 13 | <input type="checkbox"/> Indonesia | Jakarta | 8540121 |
| 14 | <input type="checkbox"/> Japan | Tokyo | 8336599 |
| 15 | <input type="checkbox"/> United States | New York City | 8175133 |

SQL v2 = v1

```
select
cn."Column4" as country,
ctr.ctnm as country_maxpopcity_name,
ctr.ctpop as country_maxpopcity_pop
from (
select
ct."Column1" as ctnm,
ct."Column14" as ctpop,
ct."Column8" as ctcn,
RANK() OVER(
PARTITION BY ct."Column8"
ORDER BY ct."Column14" desc
) AS ct_rank_in_cn
from public.cities ct) ctr,
public.countries cn
where cn."Column0" = ctr.ctcn
and ctr.ct_rank_in_cn=1
order by ctpop desc limit 15
```

| | country | country_maxpopcity_name | country_maxpopcity_pop |
|----|--|-------------------------|------------------------|
| 1 | <input type="checkbox"/> China | Shanghai | 22315474 |
| 2 | <input type="checkbox"/> Argentina | Buenos Aires | 13076300 |
| 3 | <input type="checkbox"/> India | Mumbai | 12691836 |
| 4 | <input type="checkbox"/> Mexico | Mexico City | 12294193 |
| 5 | <input type="checkbox"/> Pakistan | Karachi | 11624219 |
| 6 | <input type="checkbox"/> Turkey | İstanbul | 11174257 |
| 7 | <input type="checkbox"/> Philippines | Manila | 10444527 |
| 8 | <input type="checkbox"/> Russia | Moscow | 10381222 |
| 9 | <input type="checkbox"/> Bangladesh | Dhaka | 10356500 |
| 10 | <input type="checkbox"/> South Korea | Seoul | 10349312 |
| 11 | <input type="checkbox"/> Brazil | São Paulo | 10021295 |
| 12 | <input type="checkbox"/> Nigeria | Lagos | 9000000 |
| 13 | <input type="checkbox"/> Indonesia | Jakarta | 8540121 |
| 14 | <input type="checkbox"/> Japan | Tokyo | 8336599 |
| 15 | <input type="checkbox"/> United States | New York City | 8175133 |

PowerBI cfg


PostgreSQL database

Server

Database

Data Connectivity mode ⓘ
☐ Import
☒ DirectQuery

PostgreSQL database

 localhost:5432;postgres


User name



Password

Select which level to apply these settings to

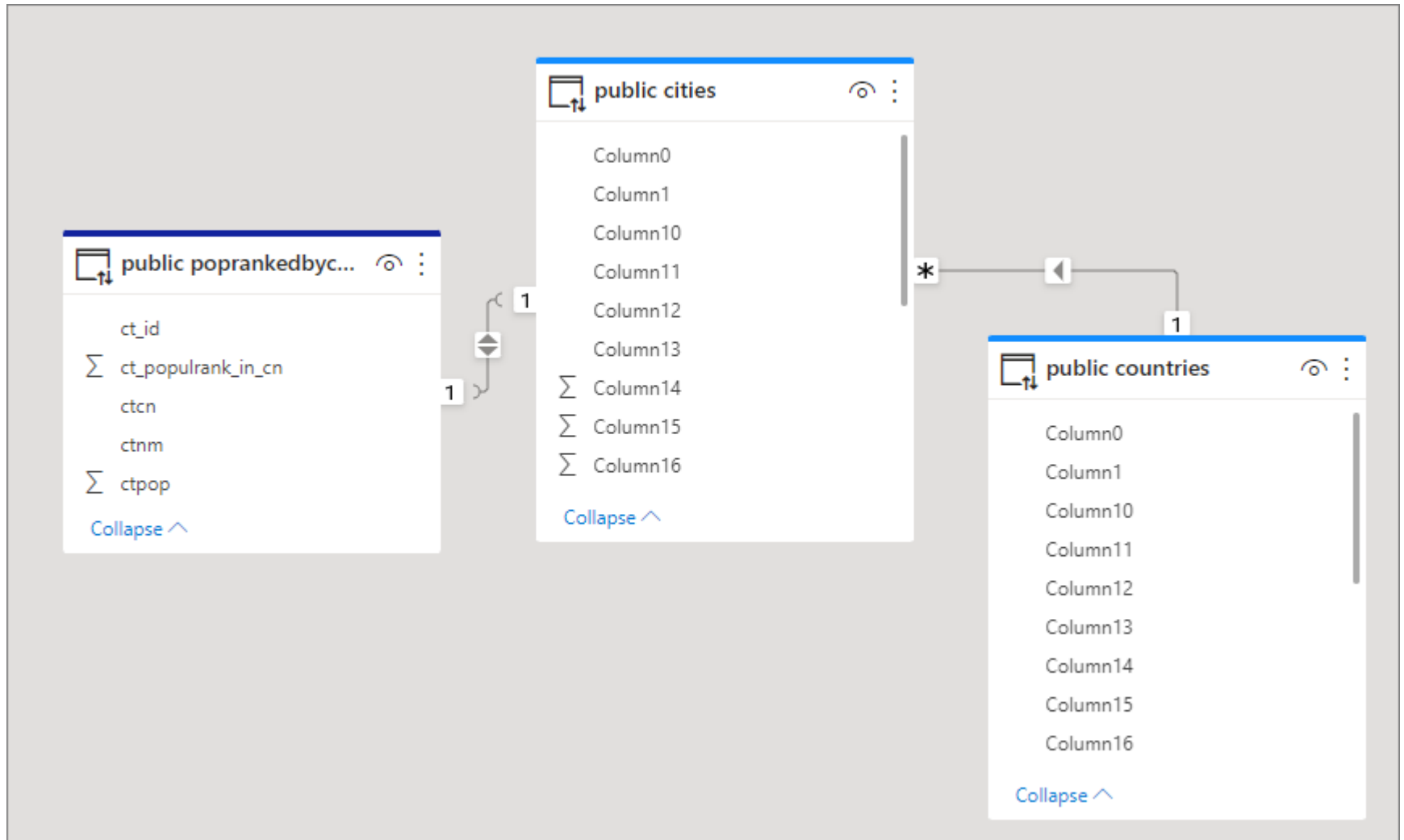
Navigator

Display Options ▾

◀  localhost:5432: postgres [2]

- ☐  public.cities
- ☐  public.countries

PowerBI rels



powerBI report

| Column4 | Column1 | Column14 | ct_populrank_in_cn |
|---------------|---------------|------------------|--------------------|
| China | Shanghai | 22315474 | 1 |
| Argentina | Buenos Aires | 13076300 | 1 |
| India | Mumbai | 12691836 | 1 |
| Mexico | Mexico City | 12294193 | 1 |
| Pakistan | Karachi | 11624219 | 1 |
| Turkey | İstanbul | 11174257 | 1 |
| Philippines | Manila | 10444527 | 1 |
| Russia | Moscow | 10381222 | 1 |
| Bangladesh | Dhaka | 10356500 | 1 |
| South Korea | Seoul | 10349312 | 1 |
| Brazil | São Paulo | 10021295 | 1 |
| Nigeria | Lagos | 9000000 | 1 |
| Indonesia | Jakarta | 8540121 | 1 |
| Japan | Tokyo | 8336599 | 1 |
| United States | New York City | 8175133 | 1 |
| Taiwan | Taipei | 7871900 | 1 |
| Total | | 433909086 | 244 |

Share

Filters

Search

Filters on this visual

Column1
is (All)

Column14
is (All)

Column4
is (All)

ct_populrank_in_cn
is 1

Fields

Search

- > public cities
- > public countries
- > public poprankedbycn_cities

END