

Requête SQL utiles

Correspondance entre code INSEE présent dans additional_data et cor_area_synthese

Trouver les codes INSEE fournis dans le champ additional_data attribut communeInseeCode, existant dans la table ref_geo.l_areas mais qui ne correspondent pas à ceux présent dans la table gn_synthese.cor_area_synthese :

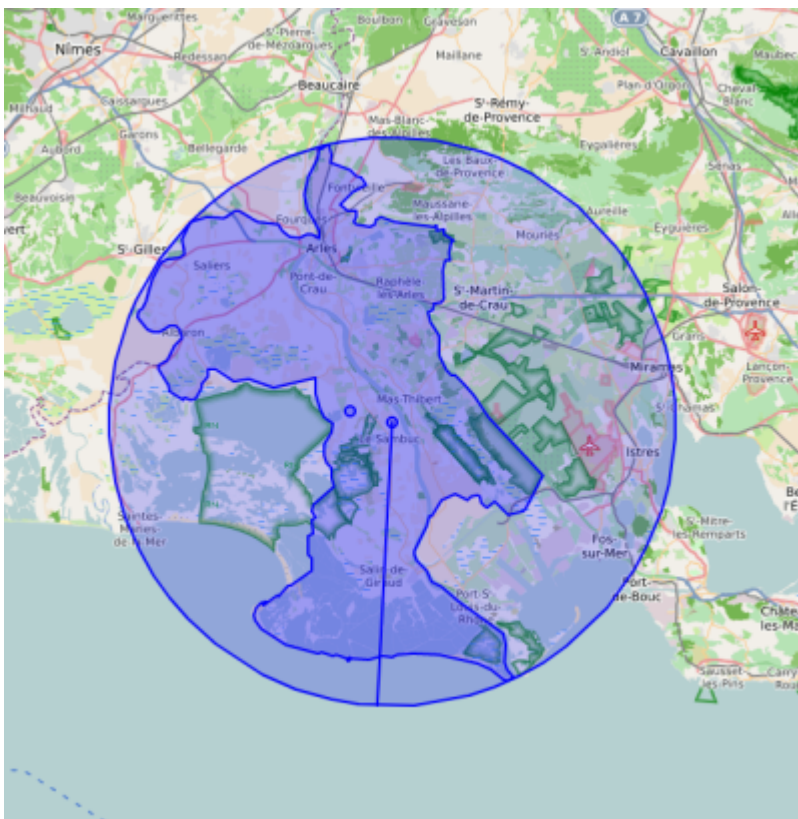
```
WITH communes AS (  
    SELECT la.id_area, la.area_code AS insee_code, la.area_name  
    FROM ref_geo.l_areas AS la  
    WHERE la.id_type = ref_geo.get_id_area_type_by_code('COM')  
    AND la."enable" = TRUE  
)  
SELECT s.unique_id_sinp, s.the_geom_4326,  
s.additional_data::json->>'communeInseeCode' AS code_insee_json, c.area_name  
AS area_name_cas, c.insee_code AS code_insee_cas  
FROM gn_synthese.synthese AS s  
    LEFT JOIN gn_synthese.cor_area_synthese AS cas  
        ON (s.id_synthese = cas.id_synthese)  
    JOIN communes AS c  
        ON (cas.id_area = c.id_area)  
WHERE s."precision" IS NULL  
    AND s.additional_data::json->>'communeInseeCode' != c.insee_code ;
```

Trouver les codes INSEE fournis dans le champ additional_data attribut communeInseeCode qui ne correspondent pas à ceux présent dans la table gn_synthese.cor_area_synthese car ils n'existent pas dans la table ref_geo.l_areas :

```
WITH communes AS (  
    SELECT la.id_area, la.area_code AS insee_code, la.area_name  
    FROM ref_geo.l_areas AS la  
    WHERE la.id_type = ref_geo.get_id_area_type_by_code('COM')  
    AND la."enable" = TRUE  
)  
SELECT DISTINCT s.additional_data::json->>'communeInseeCode' AS  
code_insee_json  
FROM gn_synthese.synthese AS s  
    LEFT JOIN gn_synthese.cor_area_synthese AS cas  
        ON (s.id_synthese = cas.id_synthese)  
    JOIN communes AS c  
        ON (cas.id_area = c.id_area)  
WHERE s."precision" IS NULL  
    AND s.additional_data::json->>'communeInseeCode' != c.insee_code  
    AND s.additional_data::json->>'communeInseeCode' NOT IN (SELECT  
insee_code FROM communes);
```

Calculer le rayon du cercle comprenant un polygone (communes)

```
SELECT
  unique_id_sinp,
  round(radius(ST_MinimumBoundingRadius(la.geom))) AS "precision",
  center(ST_MinimumBoundingRadius(la.geom)) AS rayon,
  ST_MinimumBoundingCircle(la.geom) AS cercle,
  ST_LongestLine(center(ST_MinimumBoundingRadius(la.geom)),
  ST_MinimumBoundingCircle(la.geom)) AS rayon,
  st_centroid(la.geom) AS centroid,
  la.geom,
  la.area_name
FROM gn_synthese.synthese AS s
LEFT JOIN gn_synthese.cor_area_synthese AS cas
  ON (s.id_synthese = cas.id_synthese)
JOIN ref_geo.l_areas AS la
  ON (cas.id_area = la.id_area)
WHERE s.id_source != gn_synthese.get_id_source_by_name('SI CBN')
  AND s."precision" IS NULL
  AND la.id_type = ref_geo.get_id_area_type_by_code('COM')
LIMIT 100;
```



Différents calcul du rayon moyen d'un polygone

Il est possible d'utiliser :

1. la fonction `ST_MinimumBoundingRadius()` de Postgis :

```
round(radius(ST_MinimumBoundingRadius(geom)))
```

2. le calcul du rayon d'un cercle à partir de son aire :

```
round(sqrt(st_area(geom)/pi()))::INT
```

La première méthode retourne un rayon plus grand que cela seconde méthode...

Déterminer s'il manque des index

Source: <https://salayhin.wordpress.com/2018/01/02/finding-missing-index-in-postgresql/>

```
SELECT
  schemaname,
  relname,
  seq_scan - idx_scan AS too_much_seq,
  CASE
    WHEN seq_scan - COALESCE(idx_scan, 0) > 0 THEN 'Missing Index ?'
    ELSE 'OK'
  END,
  pg_relation_size(CONCAT(schemaname, '.', relname)::regclass) AS
rel_size,
  seq_scan, idx_scan
FROM pg_stat_all_tables
WHERE pg_relation_size(CONCAT(schemaname, '.', relname)::regclass) > 80000
ORDER BY too_much_seq DESC;
```

```
SELECT
  x1.table_in_trouble,
  pg_relation_size(x1.table_in_trouble) AS sz_n_byts,
  x1.seq_scan,
  x1.idx_scan,
  CASE
    WHEN pg_relation_size(x1.table_in_trouble) > 500000000
      THEN 'Exceeds 500 megs, too large to count in a view. For a count,
count individually'::text
    ELSE COUNT(x1.table_in_trouble)::text
  END AS tbl_rec_count,
  x1.priority
FROM
  (
    SELECT
      (schemaname::text || '.'::text) || relname::text AS table_in_trouble,
      seq_scan,
```

```
idx_scan,
CASE
  WHEN (seq_scan - idx_scan) < 500
    THEN 'Minor Problem'::text
  WHEN (seq_scan - idx_scan) >= 500 AND (seq_scan - idx_scan) < 2500
    THEN 'Major Problem'::text
  WHEN (seq_scan - idx_scan) >= 2500
    THEN 'Extreme Problem'::text
  ELSE NULL::text
END AS priority
FROM
  pg_stat_all_tables
WHERE
  seq_scan > idx_scan
  AND schemaname != 'pg_catalog'::name
  AND seq_scan > 100) x1
GROUP BY
  x1.table_in_trouble,
  x1.seq_scan,
  x1.idx_scan,
  x1.priority
ORDER BY
  x1.priority DESC,
  x1.seq_scan;
```

From:

<http://wiki-sinp.cbn-alpin.fr/> - **CBNA SINP**

Permanent link:

<http://wiki-sinp.cbn-alpin.fr/database/requetes-sql-utiles?rev=1634544805>

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