

# 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 :

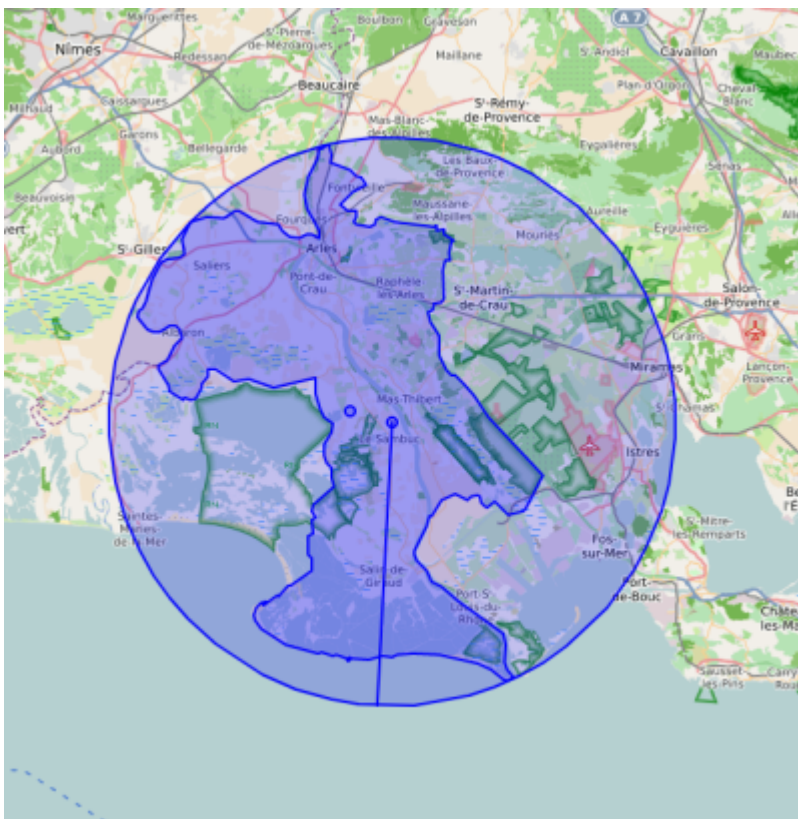
```
WITH communes AS (  
    SELECT la.id_area, la.area_code AS insee_code, la.area_name  
    FROM ref_geo.l_areas AS la  
    WHERE la.id_type = ref_geo.get_id_area_type_by_code('COM')  
    AND la."enable" = TRUE  
)  
SELECT s.unique_id_sinp, s.the_geom_4326,  
s.additional_data::json->>'communeInseeCode' 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;
```



## Déterminer s'il manque des index

```
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;
```

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