

Diferencias geométricas entre líneas

Posted by nramire1 - 11 Jul 2017 16:08

Hola

Tengo dos tablas con geometría de líneas la tabla forestal_In con sus respectivos datos y la tabla mineral_In con sus datos.

¿Como puedo obtener una tercer tabla con las líneas que se encuentran en la tabla mineral_In y no están en la tabla forestal_In?

Abajo dejo los datos con los cuales estoy trabajando.

Saludos

```
CREATE TABLE forestal_In(  
  
id serial NOT NULL,  
  
CONSTRAINT forestal_In_pkey PRIMARY KEY(id)  
  
);  
  
SELECT AddGeometryColumn ( 'forestal_In', 'geometria', 22185, 'LINESTRING', 2);  
  
INSERT INTO forestal_In (geometria) VALUES(ST_GeomFromText('LINESTRING(5500030  
6500230,5500030 6500050)',22185));  
  
INSERT INTO forestal_In (geometria) VALUES(ST_GeomFromText('LINESTRING(5500030  
6500290,5500030 6500250)',22185));  
  
INSERT INTO forestal_In (geometria) VALUES(ST_GeomFromText('LINESTRING(5500030  
6500050,5500160 6500050)',22185));  
  
INSERT INTO forestal_In (geometria) VALUES(ST_GeomFromText('LINESTRING(5500160  
6500050,5500280 6500050)',22185));  
  
INSERT INTO forestal_In (geometria) VALUES(ST_GeomFromText('LINESTRING(5500280  
6500090,5500280 6500050)',22185));  
  
INSERT INTO forestal_In (geometria) VALUES(ST_GeomFromText('LINESTRING(5500280  
6500090,5500280 6500140)',22185));  
  
INSERT INTO forestal_In (geometria) VALUES(ST_GeomFromText('LINESTRING(5500280  
6500150,5500280 6500140)',22185));
```

```
INSERT INTO forestal_In (geometria) VALUES(ST_GeomFromText('LINESTRING(5500280
6500150,5500280 6500220)',22185));
```

```
INSERT INTO forestal_In (geometria) VALUES(ST_GeomFromText('LINESTRING(5500190
6500220,5500280 6500220)',22185));
```

```
INSERT INTO forestal_In (geometria) VALUES(ST_GeomFromText('LINESTRING(5500190
6500230,5500100 6500230)',22185));
```

```
INSERT INTO forestal_In (geometria) VALUES(ST_GeomFromText('LINESTRING(5500190
6500220,5500190 6500230)',22185));
```

```
INSERT INTO forestal_In (geometria) VALUES(ST_GeomFromText('LINESTRING(5500100
6500230,5500030 6500230)',22185));
```

```
INSERT INTO forestal_In (geometria) VALUES(ST_GeomFromText('LINESTRING(5500030
6500250,5500120 6500250)',22185));
```

```
INSERT INTO forestal_In (geometria) VALUES(ST_GeomFromText('LINESTRING(5500180
6500250,5500120 6500250)',22185));
```

```
INSERT INTO forestal_In (geometria) VALUES(ST_GeomFromText('LINESTRING(5500180
6500250,5500280 6500250)',22185));
```

```
INSERT INTO forestal_In (geometria) VALUES(ST_GeomFromText('LINESTRING(5500280
6500250,5500280 6500270)',22185));
```

```
INSERT INTO forestal_In (geometria) VALUES(ST_GeomFromText('LINESTRING(5500280
6500290,5500280 6500270)',22185));
```

```
INSERT INTO forestal_In (geometria) VALUES(ST_GeomFromText('LINESTRING(5500280
6500290,5500090 6500290)',22185));
```

```
INSERT INTO forestal_In (geometria) VALUES(ST_GeomFromText('LINESTRING(5500030
6500290,5500090 6500290)',22185));
```

```
INSERT INTO forestal_In (geometria) VALUES(ST_GeomFromText('LINESTRING(5500090
6500290,5500180 6500270)',22185));
```

```
INSERT INTO forestal_In (geometria) VALUES(ST_GeomFromText('LINESTRING(5500180
6500270,5500220 6500270)',22185));
```

```
INSERT INTO forestal_In (geometria) VALUES(ST_GeomFromText('LINESTRING(5500220
6500270,5500120 6500250)',22185));
```

```
INSERT INTO forestal_In (geometria) VALUES(ST_GeomFromText('LINESTRING(5500220
6500270,5500280 6500270)',22185));
```

```
INSERT INTO forestal_In (geometria) VALUES(ST_GeomFromText('LINESTRING(5500100
6500230,5500100 6500170)',22185));
```

```
INSERT INTO forestal_In (geometria) VALUES(ST_GeomFromText('LINESTRING(5500100
6500170,5500030 6500050)',22185));
```

```
INSERT INTO forestal_In (geometria) VALUES(ST_GeomFromText('LINESTRING(5500100
6500170,5500160 6500170)',22185));
```

```
INSERT INTO forestal_In (geometria) VALUES(ST_GeomFromText('LINESTRING(5500160
6500170,5500160 6500150)',22185));
```

```
INSERT INTO forestal_In (geometria) VALUES(ST_GeomFromText('LINESTRING(5500160
6500150,5500160 6500140)',22185));
```

```
INSERT INTO forestal_In (geometria) VALUES(ST_GeomFromText('LINESTRING(5500160
6500140,5500280 6500140)',22185));
```

```
INSERT INTO forestal_In (geometria) VALUES(ST_GeomFromText('LINESTRING(5500160
6500140,5500160 6500090)',22185));
```

```
INSERT INTO forestal_In (geometria) VALUES(ST_GeomFromText('LINESTRING(5500160
6500090,5500280 6500090)',22185));
```

```
INSERT INTO forestal_In (geometria) VALUES(ST_GeomFromText('LINESTRING(5500160
6500090,5500160 6500050)',22185));
```

```
CREATE TABLE mineral_In(
```

```
id serial NOT NULL,
```

```
CONSTRAINT mineral_In_pkey PRIMARY KEY(id)
```

```
);
```

```
SELECT AddGeometryColumn ( 'mineral_In', 'geometria', 22185, 'LINESTRING', 2);
```

```
INSERT INTO mineral_In (geometria) VALUES(ST_GeomFromText('LINESTRING(5500030
6500230,5500030 6500050)',22185));
```

```
INSERT INTO mineral_In (geometria) VALUES(ST_GeomFromText('LINESTRING(5500030
6500050,5500160 6500050)',22185));
```

```
INSERT INTO mineral_In (geometria) VALUES(ST_GeomFromText('LINESTRING(5500160
6500050,5500280 6500050)',22185));
```

```
INSERT INTO mineral_In (geometria) VALUES(ST_GeomFromText('LINESTRING(5500030
6500290,5500030 6500250)',22185));
```

```
INSERT INTO mineral_In (geometria) VALUES(ST_GeomFromText('LINESTRING(5500280
6500090,5500280 6500050)',22185));
```

```
INSERT INTO mineral_In (geometria) VALUES(ST_GeomFromText('LINESTRING(5500280
6500090,5500280 6500140)',22185));
```

```
INSERT INTO mineral_In (geometria) VALUES(ST_GeomFromText('LINESTRING(5500280
6500150,5500280 6500140)',22185));
```

```
INSERT INTO mineral_In (geometria) VALUES(ST_GeomFromText('LINESTRING(5500280
6500150,5500280 6500220)',22185));
```

```
INSERT INTO mineral_In (geometria) VALUES(ST_GeomFromText('LINESTRING(5500190
6500220,5500280 6500220)',22185));
```

```
INSERT INTO mineral_In (geometria) VALUES(ST_GeomFromText('LINESTRING(5500190
6500230,5500100 6500230)',22185));
```

```
INSERT INTO mineral_In (geometria) VALUES(ST_GeomFromText('LINESTRING(5500190
6500220,5500190 6500230)',22185));
```

```
INSERT INTO mineral_In (geometria) VALUES(ST_GeomFromText('LINESTRING(5500100
6500230,5500030 6500230)',22185));
```

```
INSERT INTO mineral_In (geometria) VALUES(ST_GeomFromText('LINESTRING(5500030
6500250,5500120 6500250)',22185));
```

```
INSERT INTO mineral_In (geometria) VALUES(ST_GeomFromText('LINESTRING(5500180
6500250,5500120 6500250)',22185));
```

```
INSERT INTO mineral_In (geometria) VALUES(ST_GeomFromText('LINESTRING(5500180
6500250,5500280 6500250)',22185));
```

```
INSERT INTO mineral_In (geometria) VALUES(ST_GeomFromText('LINESTRING(5500280
6500250,5500280 6500270)',22185));
```

```
INSERT INTO mineral_In (geometria) VALUES(ST_GeomFromText('LINESTRING(5500280
6500290,5500280 6500270)',22185));
```

```
INSERT INTO mineral_In (geometria) VALUES(ST_GeomFromText('LINESTRING(5500280
6500290,5500090 6500290)',22185));
```

```
INSERT INTO mineral_In (geometria) VALUES(ST_GeomFromText('LINESTRING(5500030
6500290,5500090 6500290)',22185));
```

```
INSERT INTO mineral_In (geometria) VALUES(ST_GeomFromText('LINESTRING(5500180
6500250,5500180 6500270)',22185));
```

```
INSERT INTO mineral_In (geometria) VALUES(ST_GeomFromText('LINESTRING(5500180
6500270,5500220 6500270)',22185));
```

```
INSERT INTO mineral_In (geometria) VALUES(ST_GeomFromText('LINESTRING(5500220
6500270,5500280 6500270)',22185));
```

```
INSERT INTO mineral_In (geometria) VALUES(ST_GeomFromText('LINESTRING(5500100
6500230,5500100 6500170)',22185));
```

```
INSERT INTO mineral_In (geometria) VALUES(ST_GeomFromText('LINESTRING(5500100
6500170,5500160 6500170)',22185));
```

```
INSERT INTO mineral_In (geometria) VALUES(ST_GeomFromText('LINESTRING(5500160
6500170,5500190 6500170)',22185));
```

```
INSERT INTO mineral_In (geometria) VALUES(ST_GeomFromText('LINESTRING(5500160
6500170,5500160 6500150)',22185));
```

```
INSERT INTO mineral_In (geometria) VALUES(ST_GeomFromText('LINESTRING(5500190
6500170,5500190 6500220)',22185));
```

```
INSERT INTO mineral_In (geometria) VALUES(ST_GeomFromText('LINESTRING(5500160
6500150,5500160 6500140)',22185));
```

```
INSERT INTO mineral_In (geometria) VALUES(ST_GeomFromText('LINESTRING(5500160
6500140,5500280 6500140)',22185));
```

```
INSERT INTO mineral_In (geometria) VALUES(ST_GeomFromText('LINESTRING(5500160
6500140,5500160 6500090)',22185));
```

```
INSERT INTO mineral_In (geometria) VALUES(ST_GeomFromText('LINESTRING(5500160
6500090,5500160 6500050)',22185));
```

=====

Re: Diferencias geométricas entre líneas

Posted by nramire1 - 11 Jul 2017 16:13

Utilizando esta sentencia obtengo los 28 registros de la tabla mineral_In que si están "duplicados" en la tabla forestal_In

```
SELECT mineral_In.id FROM mineral_In, forestal_In WHERE ST_Contains(mineral_In.geometria,
forestal_In.geometria);
```

¿Qué tendría que modificar en la consulta para obtener los tres registros (id: 20, 25, 27 de la tabla mineral_In) que no aparecen en esos 28 registros?

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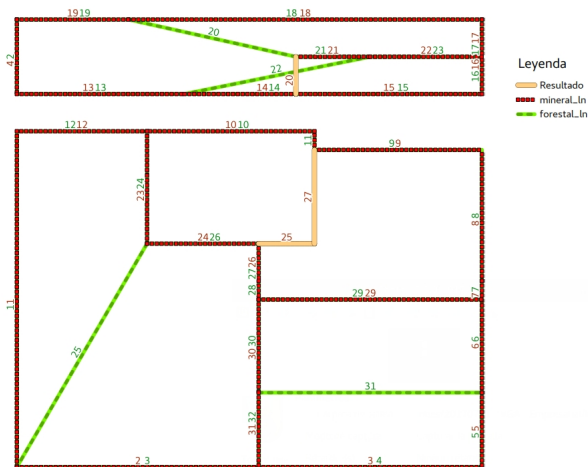
Re: Diferencias geométricas entre líneas

Posted by samtux - 10 Ago 2017 05:45

Completando la respuesta @namire1. Para generar una tercera tabla que seleccione los elementos que no contiene la capa minerales en forestal, sería como lo siguiente:

```
SELECT id, geometria FROM mineral_In m
WHERE id NOT IN (
  SELECT DISTINCT m.id
  FROM mineral_In m, forestal_In f
  WHERE ST_CONTAINS(f.geometria ,m.geometria)
)
```

Aquí la salida en QGIS usando Spatialite:



Para la descarga del proyecto QGIS use:

https://www.dropbox.com/s/olhta30ahap94h...tal_mineral.zip?dl=1

Re: Diferencias geométricas entre líneas

Posted by namire1 - 10 Ago 2017 12:39

¡Muy buena! Eso era lo que estaba buscando.

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