Asignación de Programación #4 -- Bases de Datos Espaciales

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3.
select c.*
from ciudades c, provincias p
where p.id = nvl(:P1_PROV, p.id) and
      sdo_contains(p.geometry, c.shape) = true
5.
select p.name as Nombre,
    count(c.id) as "Número de ciudades"
from provincias p left join ciudades c on
    sdo_relate(p.geometry, c.shape, 'mask=contains') = true
group by p.name
order by count(c.id) desc;
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8.
select s.*
from sismos s, ciudades c
where c.id = 21 and
      sdo_within_distance(c.shape, s.shape, 'distance = 20 units=km') = true;
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9.
select s.*
from sismos s, provincias p
where p.id = 'CRC' and
      sdo_contains(p.geometry, s.shape) = true;
10.
select s.*
from sismos s, provincias p
where p.id = 'CRC' and
      sdo_contains(p.geometry, s.shape) = true and
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s.magnitud > 5.0;

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11.
select s.*
from sismos s
where not exists (
    select *
    from provincias prov
    where sdo_contains(prov.geometry, s.shape) = true
);
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14.
select *
from sismos
where magnitud >= 6.0
15.
select sdo_aggr_convexhull(sdoaggrtype(shape, 0.005))
from sismos
where magnitud >= 6.0
16.
with convexhull as (
    select sdo_aggr_convexhull(sdoaggrtype(shape, 0.005)) as shape
    from sismos
    where magnitud >= 6.0
select sdo_geom.sdo_intersection(c.shape, p.geometry, 0.005)
from convexhull c, provincias p
where p.id = 'CRA';
```