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*****
* INFO-H-415 - Session 12
* Spatial Databases - Oracle
*****
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Exercise 1.

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```

```
create table bel_city (
  id number primary key,
  name varchar(32),
  geom sdo_geometry);
```

```
create table bel_prov (
  id number primary key,
  name varchar(32),
  geom sdo_geometry);
```

```
create table bel_regn (
  id number primary key,
  name varchar(32),
  geom sdo_geometry);
```

```
create table bel_rivers (
  id number primary key,
  name varchar(32),
  geom sdo_geometry);
```

Exercise 2.

```
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```

Use "Georaptor"

Exercise 3.

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```

```
a) select sdo_geom.sdo_distance( b1.geom, b2.geom, 1, 'unit=km' ) dist
   from bel_city b1, bel_city b2
   where b1.name='Ixelles' and b2.name='Brugge';
```

```
b) select sdo_aggr_mbr( geom )
   from bel_prov
   where name = 'Brabant';
```

```
c) select sdo_aggr_union( sdoaggrtype(geom,1) )
   from (select geom from bel_prov
   union all
   select geom from bel_regn);
```

```
d) select name, sdo_geom.sdo_length( geom, 1 )
   from bel_river;
```

```
e) select c.name, r.name
   from bel_city c, belriver r
   where sdo_within_distance( c.geom, r.geom, 'distance=1000 unit=m') = 'TRUE';

f) select r.name, p.name,
       sdo_geom.sdo_length( sdo_geom.sdo_intersection( r.geom, p.geom, 1), 1 )
length
   from belriver r, bel_prov p
   where sdo_relate( r.geom, p.geom, 'mask=ANYINTERACT' ) = 'TRUE';
```