Spatial Database Exercise on Spatial SQL: SOLUTIONS

3. Create an Oracle SQL query to report the woodID values of Woodland objects that are inside the county object countyA using the "inside" topological relationship, i.e. using the SDO_INSIDE operator – remember that its value must be tested against 'TRUE' (in capitals).

Answer

Select W.woodID
From Woodland W, County C
Where C.countyID = 'countyA' AND SDO CONTAINS(C.shape, W.shape) = 'TRUE';

4. Create an Oracle SQL query to find woodlands that are more than 1 unit away from woodC.

Answer

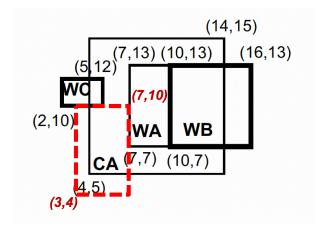
Select W1.woodID
From Wandland W1 Woodland W2 Project Exam Help
Where W2.woodland W2 Project Exam Help

SDO GEOM.SDO DISTANCE(W1.shape, W2.shape, 0.005) > 1;

5. Insert a new Whttps://eduassistpro.gitthand to lei orch that it touches the lower left corner at coordinates (3,4).

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INSERT INTO Woodland VALUES ('woodD', SDO_GEOMETRY(2003,null,null,SDO_ELEM_INFO_ARRAY(1,1003,1), SDO_ORDINATE_ARRAY(3,4,7,4,7,10,3,10,3,4)));



6. Create an Oracle SQL query to verify that the object woodD does in fact touch woodC and woodA.

Answer

SELECT W1.woodID FROM Woodland W1, Woodland W2 WHERE W2.woodID = 'woodD' AND SDO TOUCH(W1.shape, W2.shape) = 'TRUE';

7. Create an Oracle SQL query to measure the area of overlap between woodD and the county object countyA.

Answer

SELECT SDO_GEOM.SDO_AREA
(SDO_GEOM.SDO_INTERSECTION(W.shape, C.shape, 0.005), 0.005)
FROM Woodland W, County C
WHERE W.woodID = 'woodD' and C.countyID = 'countyA';

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