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**Student ID:**1332-0443-43

**Email:**[liuxinyu@usc.edu](mailto:liuxinyu@usc.edu)

**1. KML file for Step5 a & b**

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**My 11 points map to:**

Six Flags, LA Temple, Home, Grove, SantaMonicaPier, Del\_Amo Fashion Center, STAPLES center, Glandale, 99RanchMarket, HTTVUSA, RoseBowl

**Reason:**

Just pick some spots I recently went to.

**2. Queries from Step5**

**Step 5 a. The Convex Hull:**

CREATE TABLE myArea (

id SERIAL PRIMARY KEY,

name VARCHAR(64),

location GEOMETRY(POINT,4326));

INSERT INTO myArea (name, location) VALUES

('point1', ST\_SetSRID(ST\_MakePoint(-118.288, 34.033), 4326)),

('point2', ST\_SetSRID(ST\_MakePoint(-118.358, 34.073), 4326)),

('point3', ST\_SetSRID(ST\_MakePoint(-118.259, 34.143), 4326)),

('point4', ST\_SetSRID(ST\_MakePoint(-118.496, 34.010), 4326)),

('point5', ST\_SetSRID(ST\_MakePoint(-118.267, 34.043), 4326)),

('point6', ST\_SetSRID(ST\_MakePoint(-117.994, 34.081), 4326)),

('point7', ST\_SetSRID(ST\_MakePoint(-118.349, 33.831), 4326)),

('point8', ST\_SetSRID(ST\_MakePoint(-118.101, 34.078), 4326)),

('point9', ST\_SetSRID(ST\_MakePoint(-118.168, 34.161), 4326)),

('point10', ST\_SetSRID(ST\_MakePoint(-118.434, 34.053), 4326)),

('point11', ST\_SetSRID(ST\_MakePoint(-118.597, 34.425), 4326));

SELECT ST\_AsText(ST\_ConvexHull(ST\_Collect(location)))

FROM myArea;

**OUTPUT:**

**POLYGON((-118.349 33.831,-118.496 34.01,-118.597 34.425,-117.994 34.081,-118.349 33.831))**

**Step 5 b. The Convex Hull:**

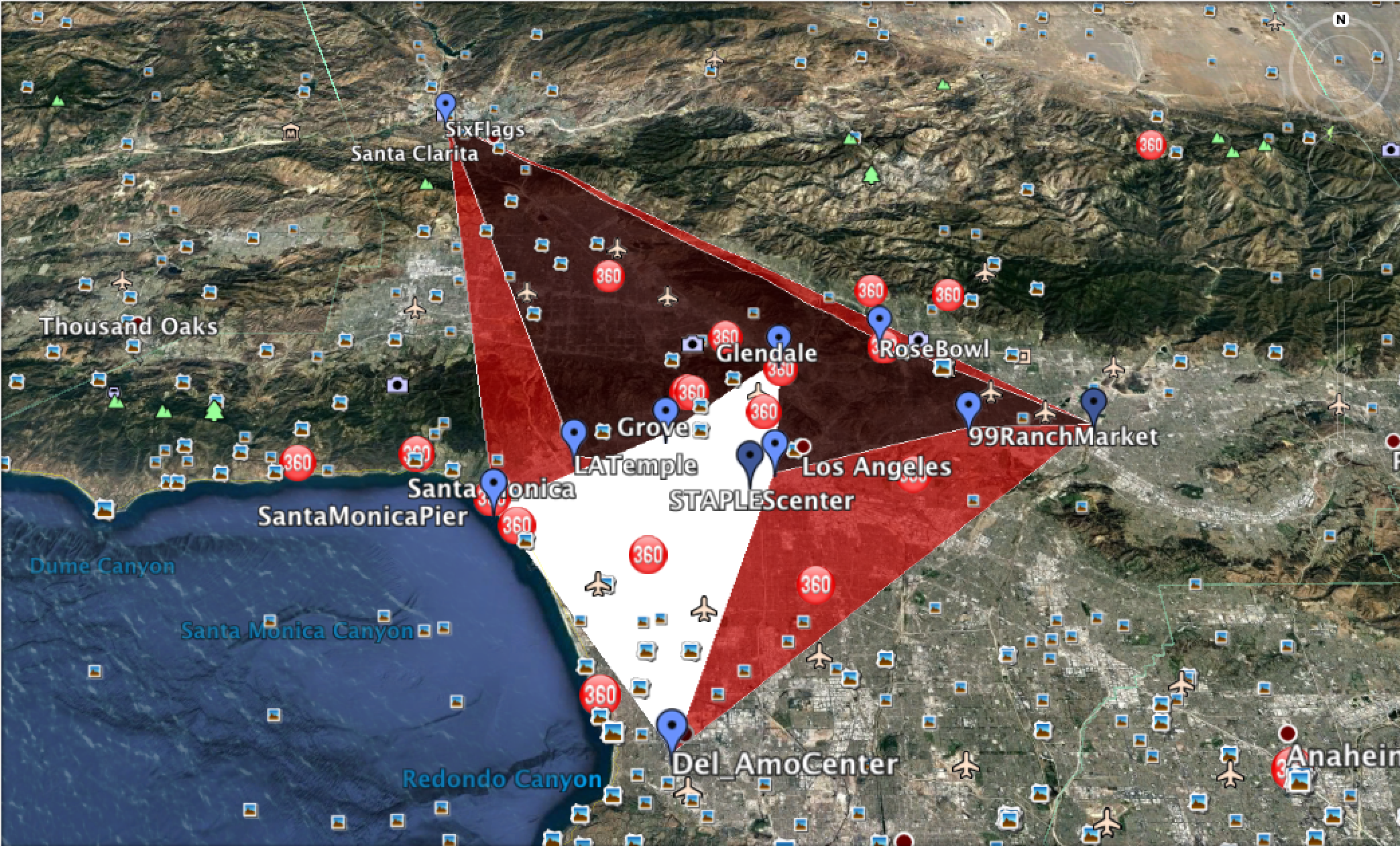
SELECT ST\_Disjoint(ST\_GeomFromText('POLYGON((-118.597 34.425, -118.434 34.053, -118.288 34.033, -118.101 34.078, -117.994 34.081, -118.168 34.161, -118.597 34.425))'),

ST\_GeomFromText('POLYGON((-118.358 34.073, -118.496 34.010, -118.349 33.831, -118.267 34.043, -118.259 34.143, -118.358 34.073))'));

**OUTPUT:**

**false**

**3. Screenshot from Step5**

5a:****5b:****

**4. Issues & Solutions**

1. Learn how to draw polygon & line in google earth by visiting <https://developers.google.com/kml/documentation/kml_tut>

2. Learn how to write a query to find out if the two polygons disjoint in Postgres by learning function ST\_Overlaps <https://postgis.net/docs/ST_Overlaps.html>

**Bonus Question:**

**1. Point generation code in JavaScript**

<!DOCTYPE html>

<html>

<head>

<meta charset="utf-8">

<title>

Epicycloid Curve Compute

</title>

</head>

<body onload="draw()">

<div id="coordinate"></div>

</body>

<script type="text/javascript">

function draw(){

var a=7, b=3;

var x0=7, y0=0;

var coord = document.getElementById("coordinate");

var coordinates = new Array();

var cos=Math.cos, sin=Math.sin, pi=Math.PI, nRev=6;

var i = 0;

for(var t=0.0; t<(pi\*nRev); t+=0.01){

var x=(a+b)\*cos(t) - b\*cos((a/b+1)\*t);

var y=(a+b)\*sin(t) - b\*sin((a/b+1)\*t);

coordinates[i] = (-118.289422+0.1\*x)+","+(34.020700+0.1\*y)+"<br>";

i++;

}

for(var j=0; j<coordinates.length; j++){

coord.innerHTML += coordinates[j];

}

}

</script>

</html>

**2. KML File**

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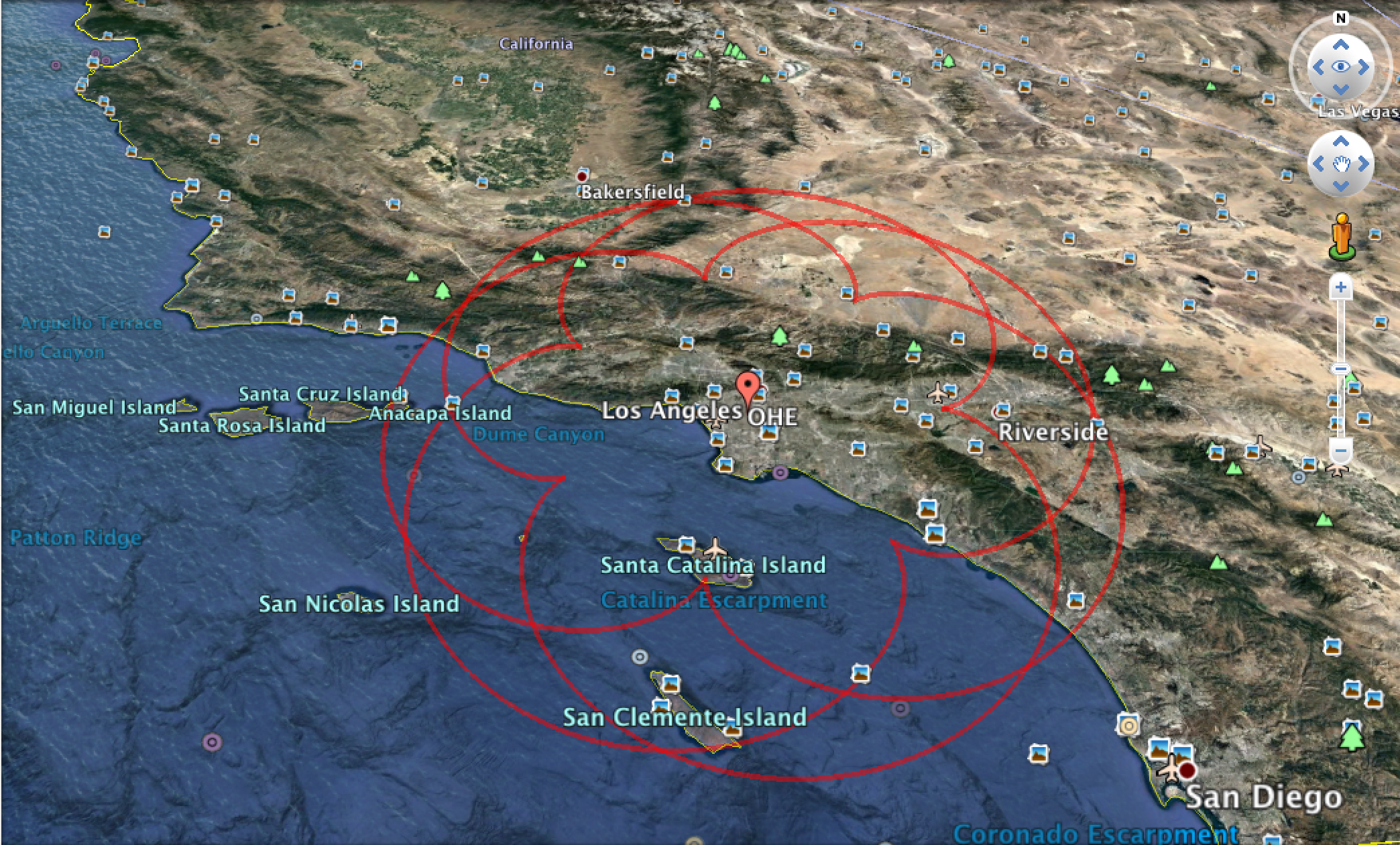
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**3. Screenshot**

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