CSCI 585-Homework

---QUERY 1---

SELECT ST_AsText(ST_ConvexHull(

      ST_Collect(ST_GeomFromText('MULTIPOINT(-118.282183 34.032726,-118.288428 34.024520,-118.283465 34.021211, -118.285741 34.018981,-118.289485 34.019707,-118.291336 34.025359, -118.291046 34.018690,-118.282399 34.018450, -118.280243 34.021856)')

)));

---DDL for Query 2--

CREATE TABLE PLACES(

LABLES VARCHAR(15),

COORDINATES geometry);

INSERT INTO PLACES VALUES

('MyHome',ST_MakePoint(-118.282183, 34.032726)),

('LyonCenter',ST_MakePoint(-118.288428, 34.024520)),

('VKCLibrary',ST_MakePoint(-118.283465, 34.021211)),

('BridgeHall',ST_MakePoint(-118.285741, 34.018981)),

('SALLab',ST_MakePoint(-118.289485, 34.019707)),

('Jeff_Ver',ST_MakePoint(-118.291336, 34.025359)),

('Ver_Expo',ST_MakePoint(-118.291046, 34.018690)),

('Expo_Figue',ST_MakePoint(-118.282399, 34.018450)),

('Figue_Jeff',ST_MakePoint(-118.280243, 34.021856));

---QUERY 2--

SELECT lables, ST_AsText(COORDINATES) FROM PLACES WHERE LABLES !='MyHome'
ORDER BY COORDINATES <-> (SELECT COORDINATES FROM PLACES WHERE LABLES
='MyHome') LIMIT 3;

---KML File--

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<kml xmlns="http://earth.google.com/kml/2.0">
<Document>
<Style id="z1">
<IconStyle><Icon><href>http://www.google.com/intl/en_us/mapfiles/ms/micons/blue-
dot.png</href></Icon></IconStyle>
</Style>
<Placemark><name>MyHome</name>
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</Placemark>
<Placemark><name>LyonCenter</name>
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</Placemark>
<Placemark><name>VKCLibrary</name>
<styleUrl>#z1</styleUrl><Point><coordinates>-118.283465, 34.021211</coordinates></Point>
</Placemark>
<Placemark><name>BridgeHall</name>
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</Placemark>
<Placemark><name>SALLab</name>
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<Placemark><name>Ver_Expo</name>
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</Placemark>
<Placemark><name>Expo_Figue</name>
```

```xml
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</Placemark>
<Placemark><name>Figue_Jeff</name>
<styleUrl>#z1</styleUrl><Point><coordinates>-118.280243, 34.021856</coordinates></Point>
</Placemark>

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    </PolyStyle>
   </Style>
   <Placemark>
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    <Polygon>
     <tessellate>1</tessellate>
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      <LinearRing>
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                -118.291046,34.01869,100
                -118.291336,34.025359,100
                -118.282183,34.032726,100
                -118.280243,34.021856,100
                -118.282399,34.01845,100
       </coordinates>
      </LinearRing>
     </outerBoundaryIs>
    </Polygon>
   </Placemark>
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    </PolyStyle>
   </Style>
```

```
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 </Placemark>
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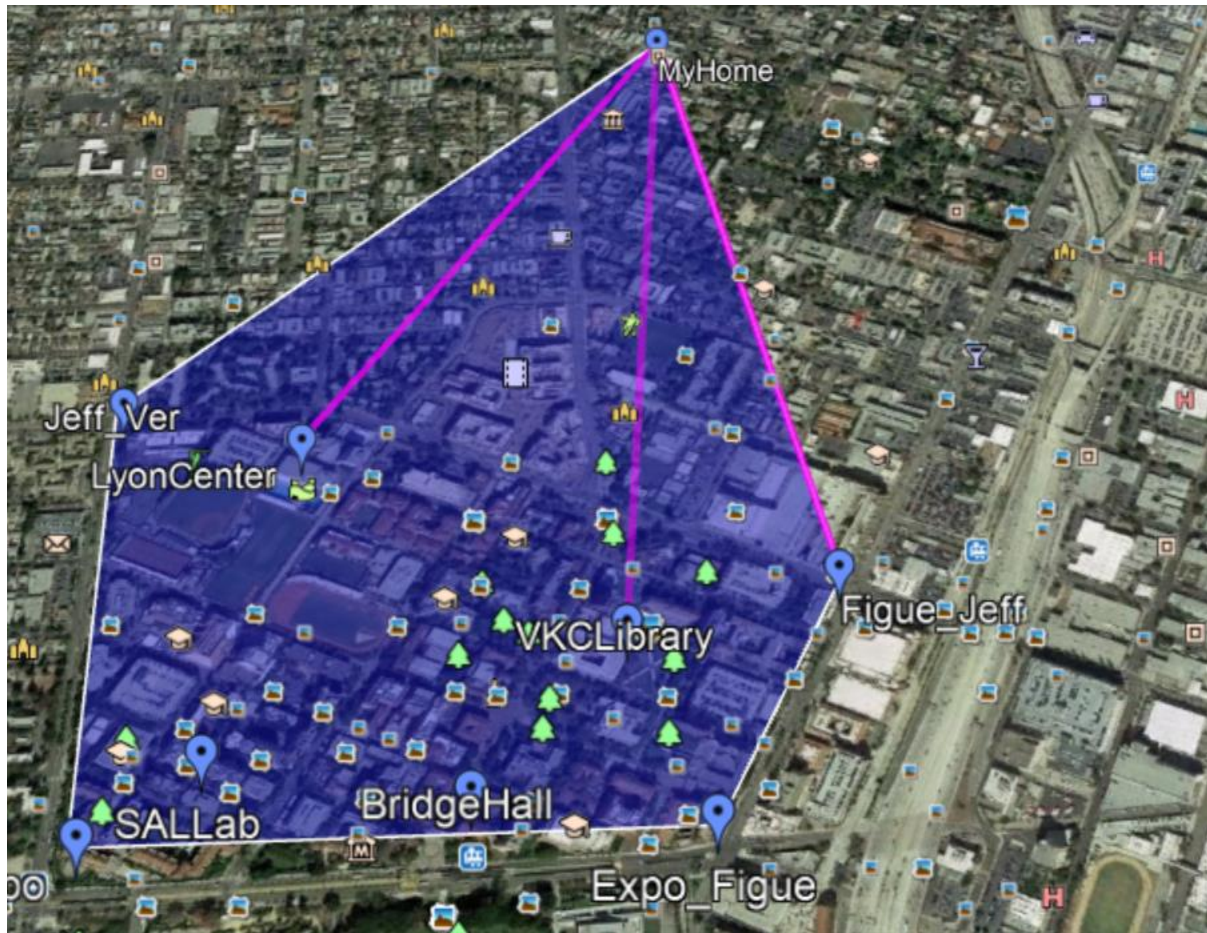
SELFIES-

1) Home- Portland Street

2) Lyon Center

3) Jefferson/Figueroa

4) Figueroa/Exposition

5) Exposition/Vermont

6) Sal Lab

7) Bridge Hall

8) VKC Library

9) Jefferson/Vermont

BONUS QUESTION

---JAVA FILE---

```java
package Ass3;

public class Hw3 {
        public static void main(String args[]) {
                int Rad = 5;
                int rad = 1;
                int c = 4;
                double x, y;
                double longitude = -118.289155;
                double latitude = 34.021241;
                for (double i = 0.0; i < (Math.PI * 20); i += 0.01) {
                        x = (Rad + rad) * Math.cos(i) - (rad + c) * Math.cos(((Rad + rad) / rad) * i);
                        y = (Rad + rad) * Math.sin(i) - (rad + c) * Math.sin(((Rad + rad) / rad) * i);
                        x = longitude + x;
                        y = latitude + y;
                        System.out.println(x + "," + y + ",0");
                }
        }
}
```

--KML FILE---

```
<?xml version="1.0" encoding="UTF-8"?>
<kml xmlns="http://earth.google.com/kml/2.0">
<Document>
<Style id="z1">
<IconStyle><Icon><href>http://www.google.com/intl/en_us/mapfiles/ms/micons/blue-dot.png</href>
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</Style>
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