**CS585: Assignment – 2 (Summer 2016)**

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**Name: Lohith Paripati**

CREATE EXTENSION postgis;

CREATE TABLE FavSpots (

name varchar(255),

locations geometry

);

INSERT INTO FavSpots values

('Home - 1444 W 28',ST\_MakePoint(-118.29510259921852, 34.02938025139842)),

('SVA / WJ',ST\_MakePoint(-118.29136818643024, 34.025318343513258)), ('WJ / SF',ST\_MakePoint(-118.28014577386638, 34.02186360023527)), ('SF / WEB',ST\_MakePoint(-118.28235354363242, 34.01840421348877)), ('WEB / SVA',ST\_MakePoint(-118.291400773224665, 34.018467976432216)), ('Leavey Library',ST\_MakePoint(-118.28288794982601, 34.02179234228872)), ('Doheny Library',ST\_MakePoint(-118.28390663298927, 34.02023098891323)), ('Panda Express',ST\_MakePoint(-118.28623782769767, 34.02033642174687)), ('No Tomatoes',ST\_MakePoint(-118.28977229789768, 34.02015143254322));

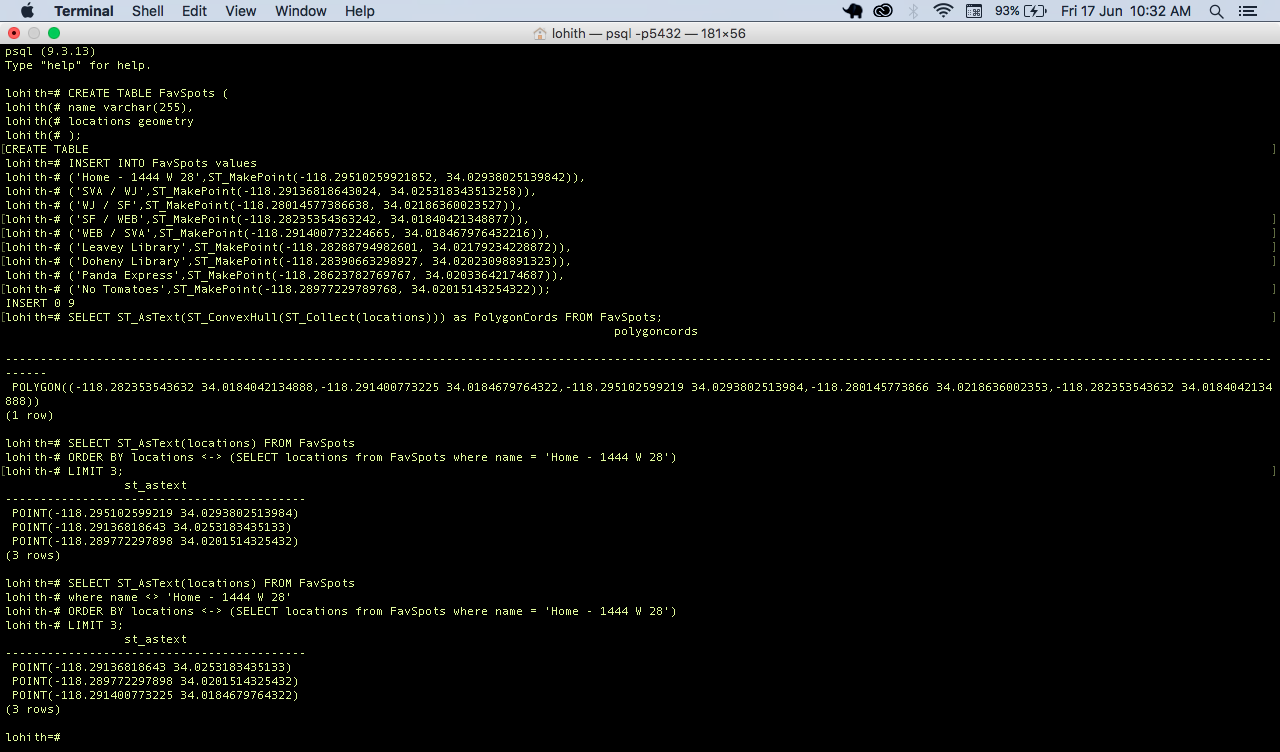
SELECT ST\_AsText(ST\_ConvexHull(ST\_Collect(locations))) as PolygonCords FROM FavSpots;

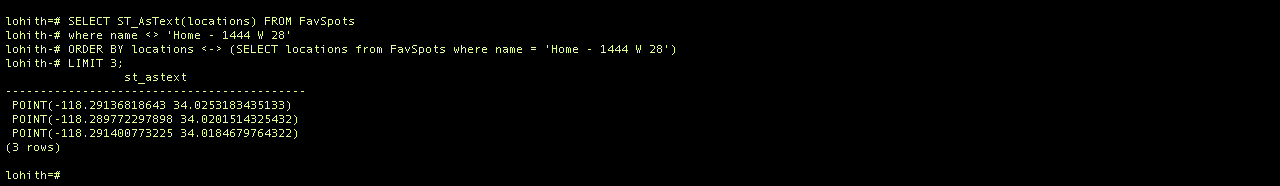
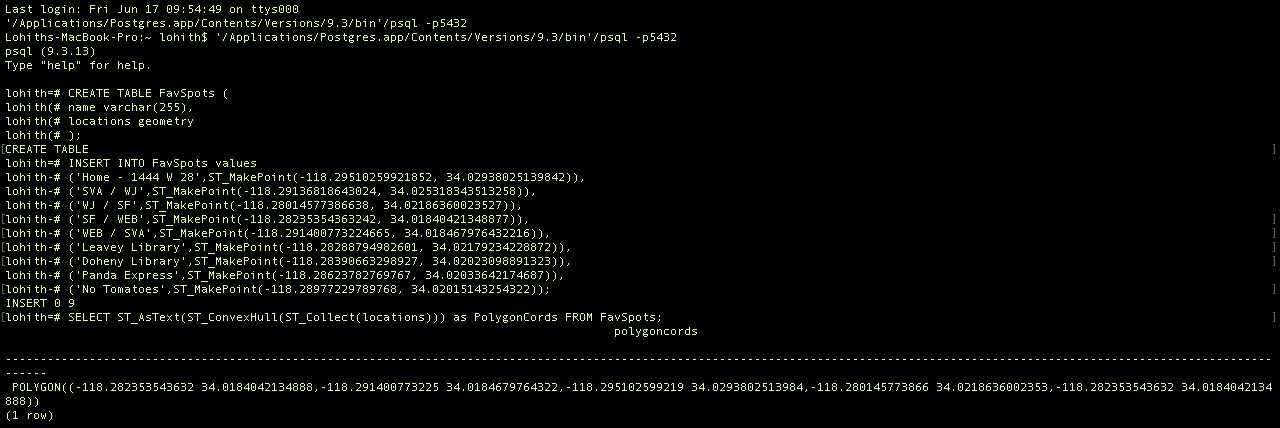
SELECT ST\_AsText(locations) FROM FavSpots

where name <> 'Home - 1444 W 28'

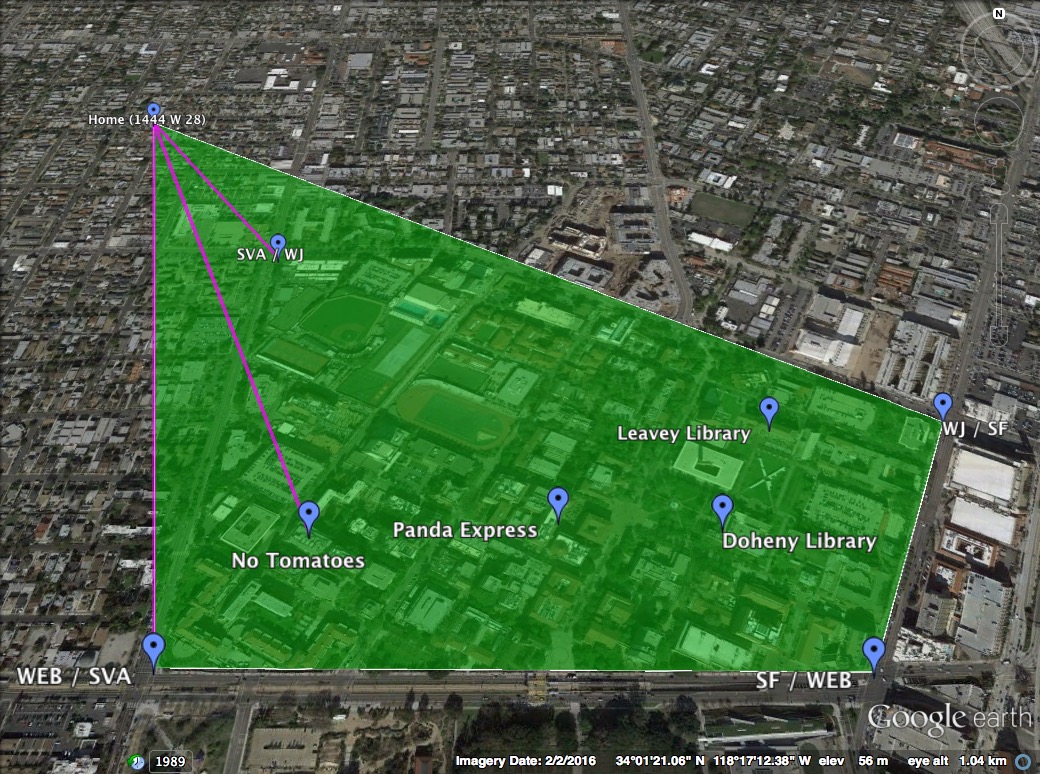
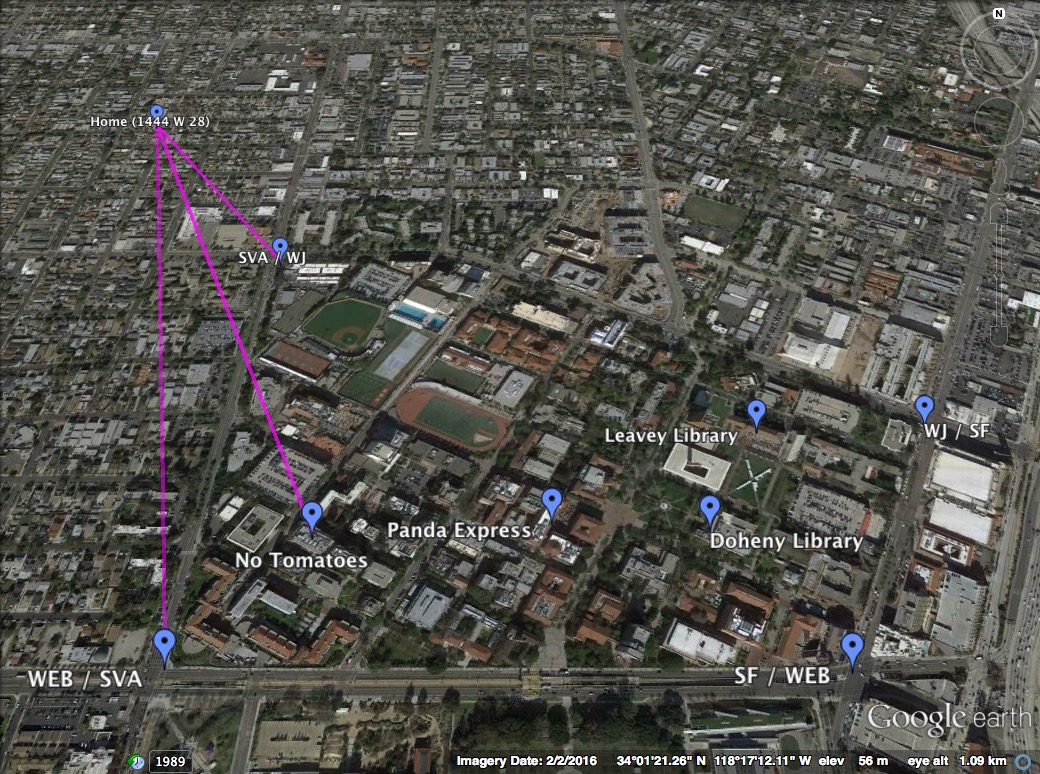
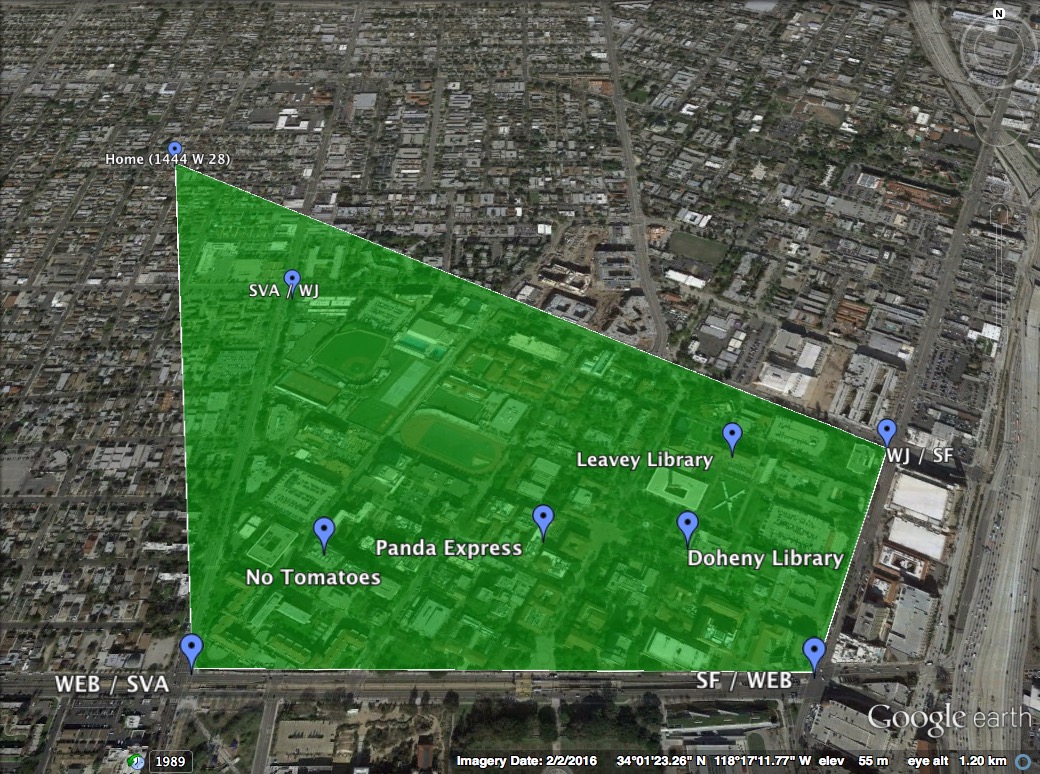
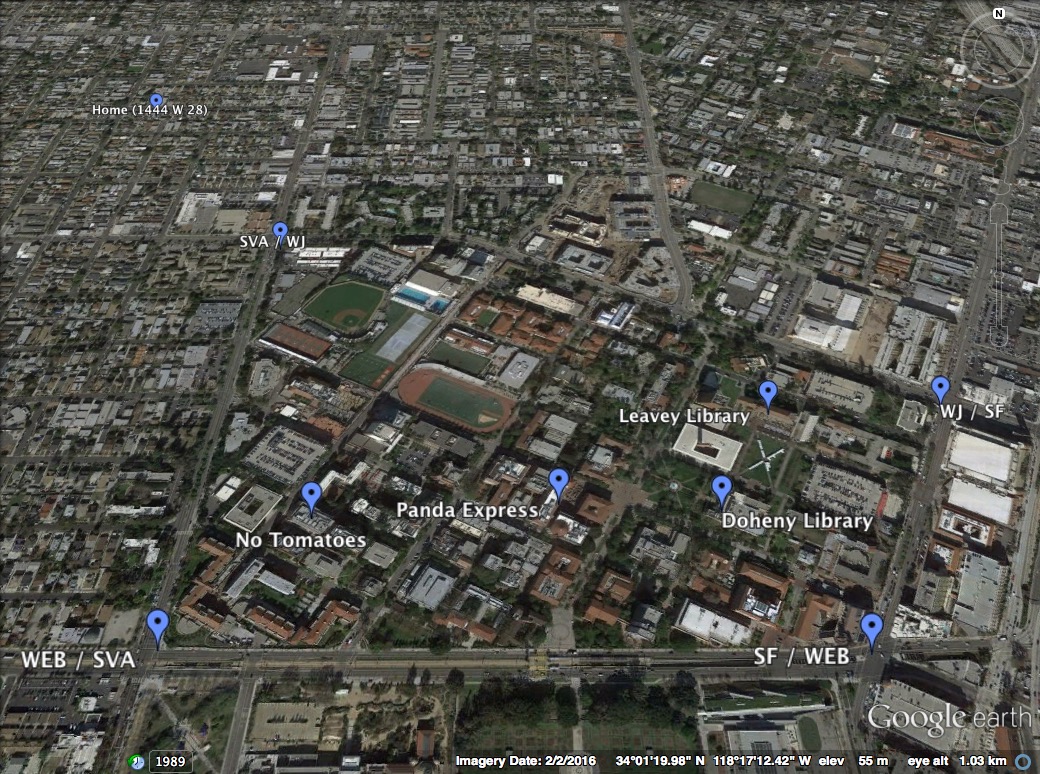
ORDER BY locations <-> (SELECT locations from FavSpots where name = 'Home - 1444 W 28')

LIMIT 3;





**GoogleEarth Screenshots**



**Source Code for above screengrabs - Keyhole Markup Language (KML file)**

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