In order to return parks with an ‘n’ mile radius, the following processes will occur:

1. A table populated with all park Name and Location information
2. Once the query is executed, a SELECT statement is used in conjunction with the Haversine formula in order to output an XML document which the map will then retrieve and display

Haversine Formula:

SELECT id, ( 3959 \* acos( cos( radians(37) ) \* cos( radians( lat ) ) \* cos( radians( lng ) - radians(-122) ) + sin( radians(37) ) \* sin( radians( lat ) ) ) ) AS distance FROM markers HAVING distance < 25 ORDER BY distance LIMIT 0 , 20;

Finds all points within 20 miles of lat/lng: 37,-122