1. <https://martech.zone/calculate-great-circle-distance/>  
   And here's the SQL query using kilometers in MySQL:

$query = "SELECT \*, (((acos(sin((".$latitude."\*pi()/180)) \* sin((`latitude`\*pi()/180)) + cos((".$latitude."\*pi()/180)) \* cos((`latitude`\*pi()/180)) \* cos(((".$longitude."- `longitude`) \* pi()/180)))) \* 180/pi()) \* 60 \* 1.1515 \* 1.609344) as distance FROM `table` WHERE distance <= ".$distance."

You'll need to customize this:

* **$longitude** – this is a PHP variable where I'm passing the longitude of the point.
* **$latitude** – this is a PHP variable where I'm passing the longitude of the point.
* **$distance** – this is the distance that you would like to find all the records less or equal to.
* **table** – this is the table… you'll want to replace that with your table name.
* **latitude** – this is the field of your latitude.
* **longitude** – this is the field of your longitude.

I utilized this code in an enterprise mapping platform that we utilized for a retail store with over 1,000 locations across North America and it worked beautifully.