Dear all,

## RE: [PostGIS and PostgreSQL Training course](https://bit.ly/3azLBE0)

## [FineResults Research Services](https://bit.ly/38Amsa7) would like to invite you to high impact training on [PostGIS and PostgreSQL Training course](https://bit.ly/3azLBE0) to be held in Nairobi from 24/08/2020 to 04/09/2020

**COURSE PROFILE**

## Course Name: [PostGIS and PostgreSQL Training course](https://bit.ly/3azLBE0)

**Date:** **24/08/2020 to 04/09/2020**

**Duration: 10 Days**

**Venue: FineResults Research Training Centre, Nairobi, Kenya**

**Cost: USD 1600**

**Online Registration**: [REGISTER HERE](https://bit.ly/33VB5nO)

**INTRODUCTION**

PostGIS is an open source software program that adds support for geographic objects to the PostgreSQL object-relational database. PostGIS follows the Simple Features for SQL specification from the Open Geospatial Consortium (OGC). Technically PostGIS was implemented as a PostgreSQL's external extension*.* PostgreSQL, often simply Postgres, is an object-relational database management system(ORDBMS) with an emphasis on extensibility and standards compliance. As a database server, its primary functions are to store data securely and return that data in response to requests from other software applications. It can handle workloads ranging from small single-machine applications to large Internet-facing applications (or for data warehousing) with many concurrent users; on macOS Server, PostgreSQL is the default database and it is also available for Microsoft Windows and (supplied in most distributions). The main purpose of the training is to equip the trainers with skills that will enable them handle cross-platform operations between the inter-operable software.

**OBJECTIVES:**

The participant(s) should be able to perform the following upon successful completion of the training:

* Configure PostgreSQL for spatial operations
* Create and administer spatial databases
* Distinguish between, spatial and classic databases
* Import and export spatial data
* Perform both basic and complex queries
* Perform spatial functions
* Connect databases to GIS software
* Embrace the significance of open source databases

**DURATION**

10 days

**Requirements**

SQL language and GIS knowledge

**COURSE OUTLINE**

**MODULE 1**

* Introduction to data bases
* History of databases

**MODULE 2**

* Introduction to PostgreSQL/PostGIS
* Installation and Configuration PostGIS
* From stackbuilder
* PostGIS template presentation
* Create a spatial database
* Differences between spatial databases and classic databases

**MODULE 3**

* Spatial Data Presentation
* Vector (point, line, polygons)
* Raster
* WKT, WKB
* Spatial SQL
* Projections

**MODULE4**

* Administration of Postgis Spatial Queries in PostgreSQL
* Import a spatial dataset
* Simple queries

**MODULE 5**

* Buffers, areas, distances
* More complex queries, spatial joins (intersections, etc.)
* PostGIS functions (on geometries)

**MODULE 6**

* Import GIS layers (WKT, KML, SHP)
* Shp2pgsql (command line) and useful parameters
* PostGIS Shapefile and DBF Loader
* Load data with other software (QGIS, GeoServer)

**MODULE 7**

* Connect a QGIS and GeoServer software to PostgreSQL
* Open layers from PostGIS
* Privileges management (read, write, update, insert, delete) on GIS
data

**MODULE 8**

* Relational Model
* Relational model theory
* Basics on tables, primary keys, attributes
* The different models (Conceptual data Model, Relational
model)
* Creation of a Database
* The main steps to create a database

**MODEL 9**

* Import or create a dataset
* Create tables, views
* Constraints management (primary and foreign keys)
* Simple queries with graphic composer
* SQL basics

**MODULE 10**

* Introduction to Users and Privileges
* Roles and group of users
* Grant and revoke privileges to users
* Import / Export Data and Backup / Restore
* Import from attribute tables (Excel, CSV, text files, etc.)
* Export from database to Excel
* Backup and restore

**ACCOMMODATION**

Accommodation is arranged upon request. For reservations contact us through Mobile: +254 759 285 295 or Email: training@fineresultsresearch.org

**PAYMENT**

Payment should be transferred to FineResults Research Limited bank before commencement of training. Send proof of payment through the email: training@fineresultsresearch.org

**CANCELLATION POLICY**

• All requests for cancellations must be received in writing.

• Changes will become effective on the date of written confirmation being received.

**GENERAL NOTES**

* All our courses can be Tailor-made to participants needs
* The participant must be conversant with English
* Presentations are well guided, practical exercise, web based tutorials and group work. Our facilitators are expert with more than 10years of experience.
* Upon completion of training the participant will be issued with FineResults Research Services certificate
* Training will be done at FineResults Research Services center in Nairobi Kenya. We also offer more than five participants training at requested location within Kenya, more than ten participants within east Africa and more than twenty participants all over the world.
* Course duration is flexible and the contents can be modified to fit any number of days.
* The course fee includes facilitation training materials, 2 coffee breaks, buffet lunch and a Certificate of successful completion of Training. Participants will be responsible for their own travel expenses and arrangements, airport transfers, visa application dinners, health/accident insurance and other personal expenses.
* One year free Consultation and Coaching provided after the course.
* Register as a group of more than two and enjoy discount of (10% to 30%) plus free four hour adventure drive to the National game park, in Nairobi.

 [Visit our website for more details](https://bit.ly/2pzFkWp)

**How to participate**

[Individual Registration](https://bit.ly/33VB5nO)

**Contact information**

**Email:** training@fineresultsresearch.org

**TEL:**  +254 759 285 295

**Website:** [fineresultsresearch.org/training/](https://bit.ly/2IWjXW8)

**Visit our** [face book page](https://bit.ly/2lOxV36)

**Visit our** [linkedin page](https://bit.ly/38qa4uE)

**Visit our** [twitter account](https://bit.ly/38oZRi7)