Training manual for Intermediate level PostgreSQL users managing disaster data.

Dear participants, the course has been organized as follows based on the following contents.

1. Working with real data
2. Importing and exporting vector data using ogr2ogr
3. PostGIS raster output functions
4. Querying external data using PostgreSQL foreign data wrappers
5. PostGIS integration with Python (Jupyter Notebook, Jupyter)
6. Raster functions and Processing (Constructor functions, output functions, Raster band and pixel accessors and setters, Georeferencing functions, reclassing functions, Polygonising functions, accessing pixel values, and isolating bands, Retiling raster, Using geometries to clip raster, Raster statistical functions, Map algebra functions)

The content has been divided as follows:

Day 1 – Contains an introduction to OSGeoLive environment, for database administrators and managers. This is going to be something new to many of the users, as it contains introduction to database administration in a totally new context, and one that is globally accepted.
Day 2 – Contains content related to spatial data management using GDAL/OGR (Geospatial Data Abstraction Library), raster operations import/export functions and management related functions.
Day 3 – Contains python based postgres connection, importing data into postgres using python, real-time data from python, jupyter notebook and postgres.
Day 4 – Contains real-time data management in postgres, data from real time sensors, (GPS and temperature logs)
Day 5 – Evaluation of the week 1

The session will start at 930 am daily and conclude at 5 pm.