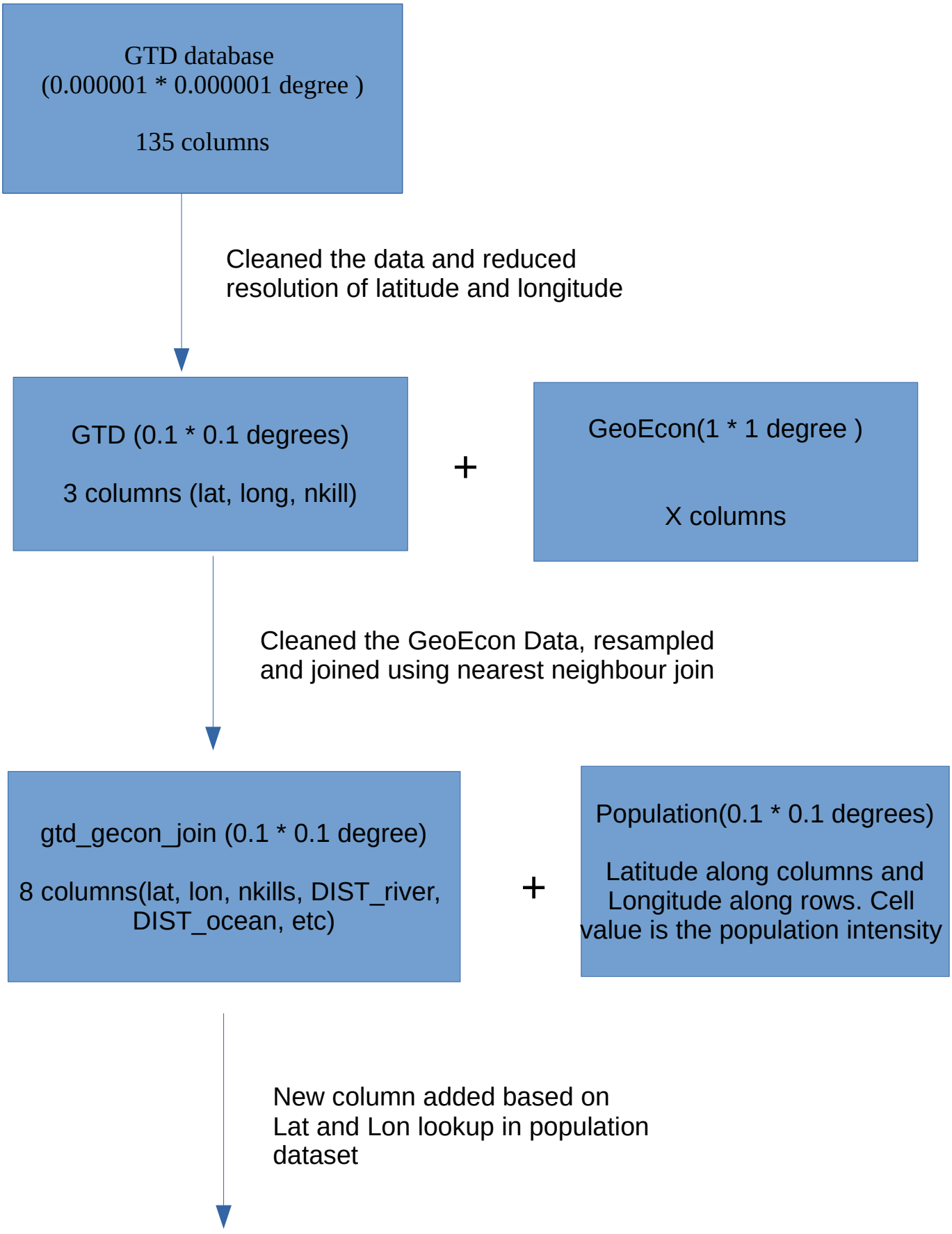
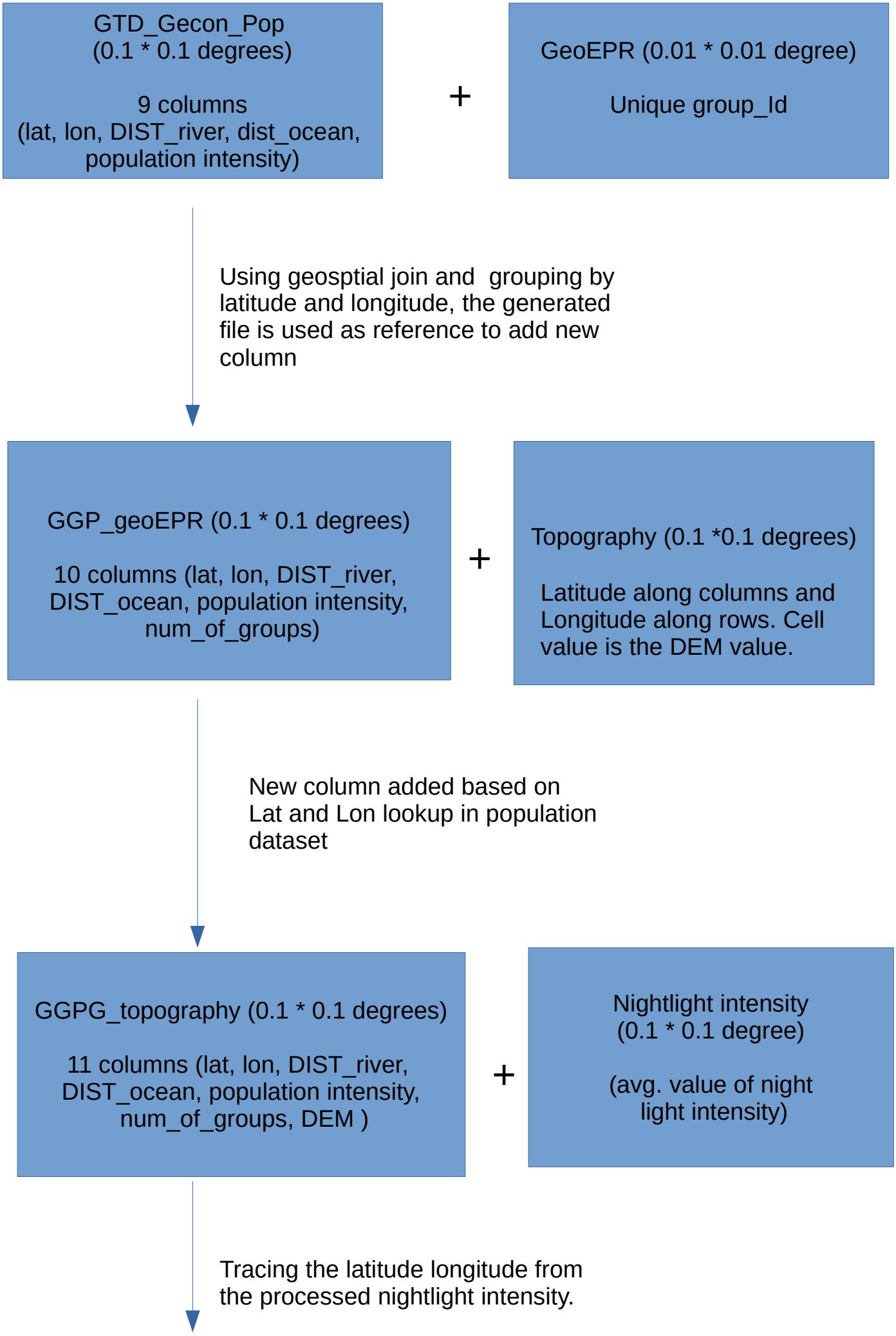
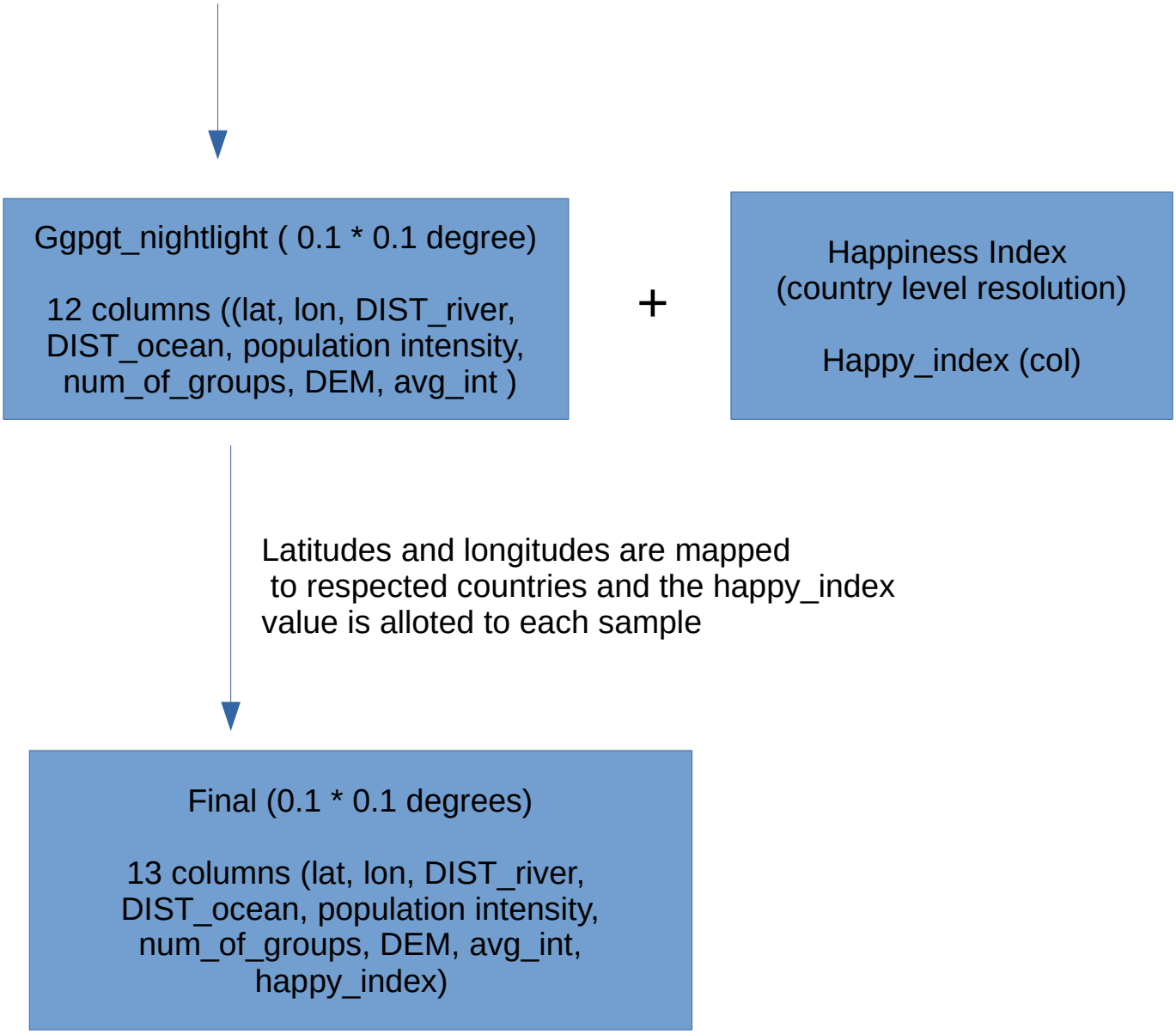
DATAFLOW DIAGRAM




GTD_Gecon_Pop
(0.1 * 0.1 degrees)
9 columns
(lat, lon, DIST_river, dist_ocean,
population intensity)
+
GeoEPR (0.01 * 0.01 degree)
Unique group_Id
Using geosptial join and grouping by latitude and longitude, the generated file is used as reference to add new column
GGP_geoEPR (0.1 * 0.1 degrees)
10 columns (lat, lon, DIST_river,
DIST_ocean, population intensity,
num_of_groups)
+
Topography (0.1 *0.1 degrees)
Latitude along columns and Longitude along rows. Cell value is the DEM value.
New column added based on Lat and Lon lookup in population dataset
GGPG_topography (0.1 * 0.1 degrees)
11 columns (lat, lon, DIST_river,
DIST_ocean, population intensity,
num_of_groups, DEM)
+
Nightlight intensity
(0.1 * 0.1 degree)
(avg. value of night
light intensity)
Tracing the latitude longitude from the processed nightlight intensity.


Ggpgt_nightlight (0.1 * 0.1 degree)
12 columns ((lat, lon, DIST_river, DIST_ocean, population intensity, num_of_groups, DEM, avg_int)
+
Happiness Index (country level resolution)
Happy_index (col)
Latitudes and longitudes are mapped to respected countries and the happy_index value is alloted to each sample
Final (0.1 * 0.1 degrees)
13 columns (lat, lon, DIST_river, DIST_ocean, population intensity, num_of_groups, DEM, avg_int, happy_index)