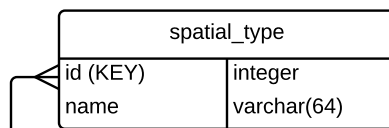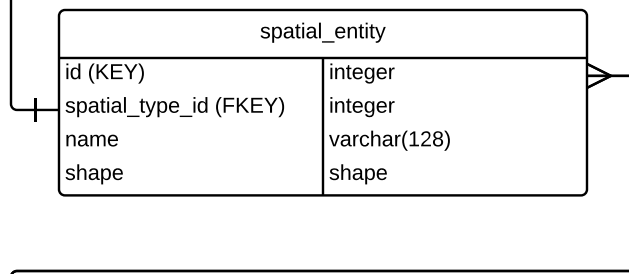# Hack Oregon: Urban Development

Database design to enable display of data collected for one area type to be displayed in other area types, e.g. displaying tract data overlapping a neighborhood.
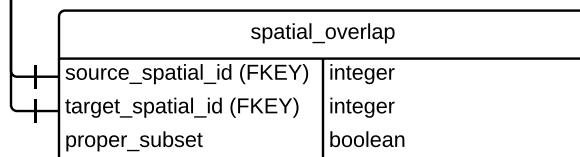
spatial_type

id (KEY)	integer
name	varchar(64)

Examples:
1, Point
2, Portland Neighborhood
3, U.S. Census Tract
4, Metro Council District
...

spatial_entity

id (KEY)	integer
spatial_type_id (FKEY)	integer
name	varchar(128)
shape	shape

Examples:
22, 1, "4322 NE Fremont, Portland, OR 97213", <shape>
33, 2, "Rose City Park", <shape>
28, 3, "28.01", <shape>
56, 4, "District 5", <shape>
...

spatial_overlap

source_spatial_id (FKEY)	integer
target_spatial_id (FKEY)	integer
proper_subset	boolean

Examples:
22, 33, true -- point contained in neighborhood
22, 56, true -- point contained in district
22, 28, true -- point contained in tract
28, 33, false -- tract overlaps neighborhood
28, 56, true -- tract contained in district
...