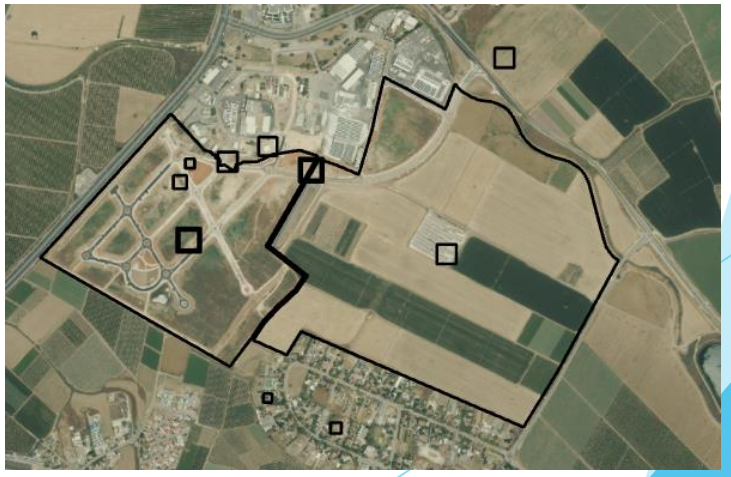
Extract geometry for deals, coming from multiple sources

15/02/2023

From excels

To geometry



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Introduction

Kkl have been losing real-state property by missing key information about deals in her territories.

To find the missing area own by kkl, a tool was creating reading excels, extract data from their information and present it as a layer.

To make sure the information is well presented, farther analysis was created to insure the visual .

Input:

Data from department of justice

- excels

Geometry from:

- Settlements
- Parcels
- X Plans

Input: geometry layers

COLUMNS - Geometry - Explained

Settlements	- SETL_CODE SHAPE@	Code representing each city
Parcels	- GUSH GUSH_SUFFIX PARCEL SHAPE@	Combining Gush-gush_suffix-parcel to locate unique geometry for each parcel
X plans	- Tochnit Name	“Smart” join between plan number

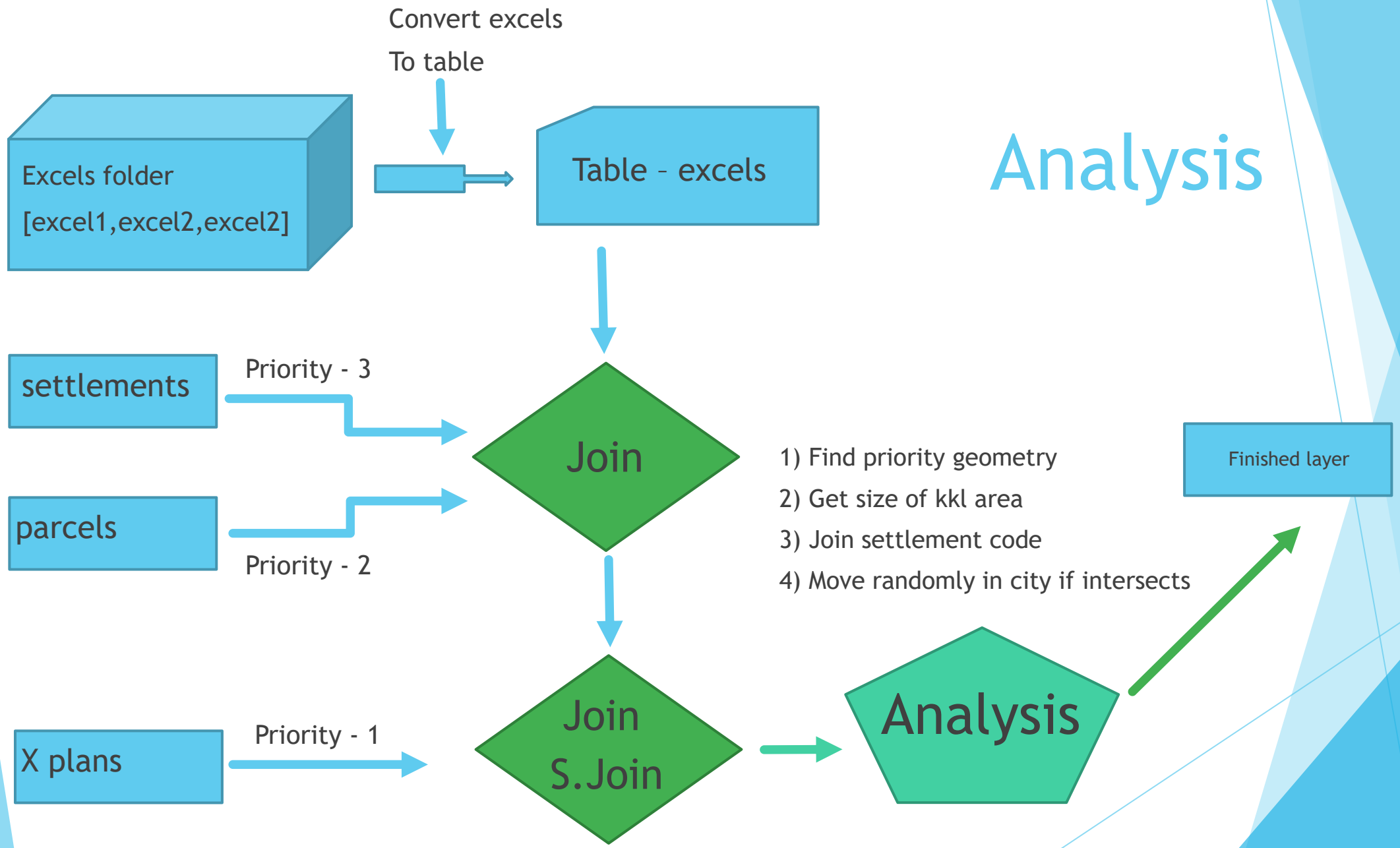
Input : Excel

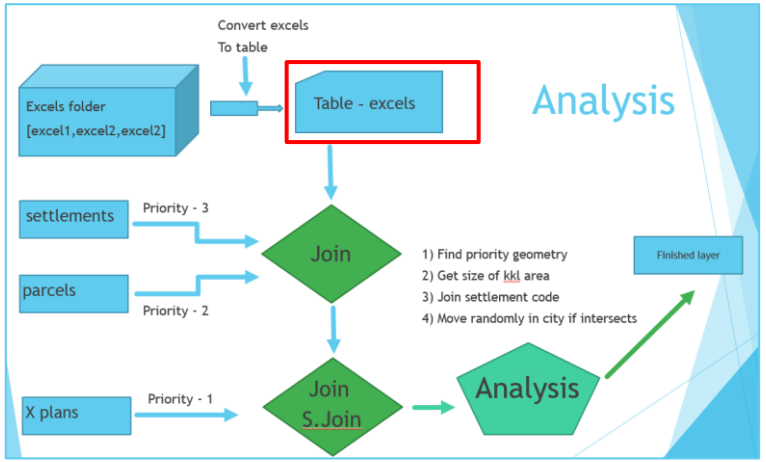
COLUMNS

מספר חשבון
מטרה
סוג הקצאה
בעלות
שנות הקצאה
אגף
סוג תיק
סטטוס תיק
מרחב
מספר תיק
כמות תיקים

מזהה בעל זכות
בעל זכות ראשון
ת. החלטה בעסקה
שטח קקל
ערך הקרקע
חיוב חד פעמי
גוש
חלקה
מספר תוכנית
מספר מגרש
ישוב

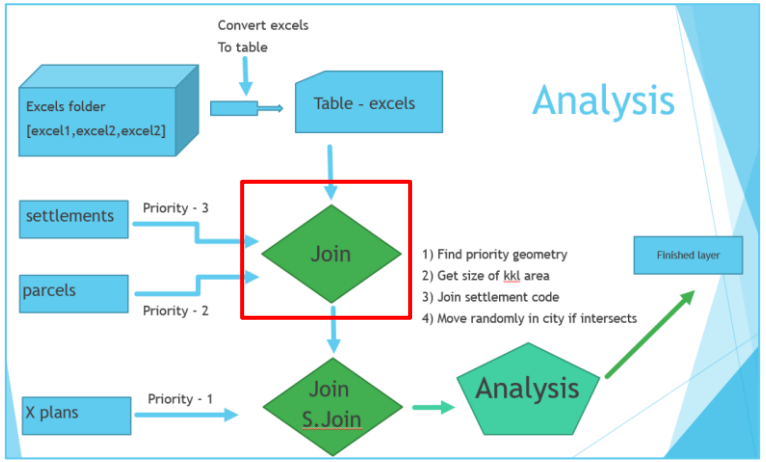
Analysis


Convert excels
To table
Excels folder
[excel1,excel2,excel2]
Table – excels
settlements
Priority - 3
parcels
Priority - 2
Join
1) Find priority geometry
2) Get size of kkl area
3) Join settlement code
4) Move randomly in city if intersects
Finished layer
X plans
Priority - 1
Join
S.Join
Analysis

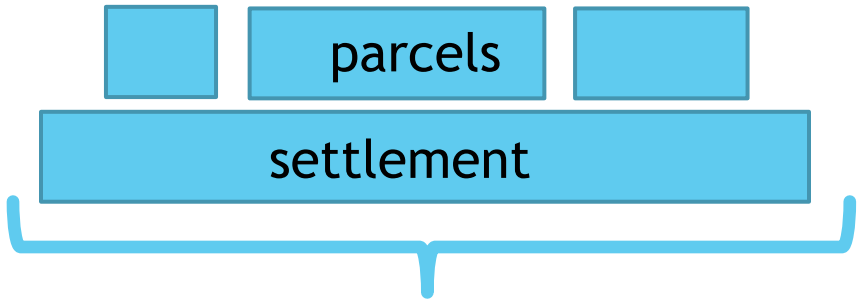


Convert excels to table

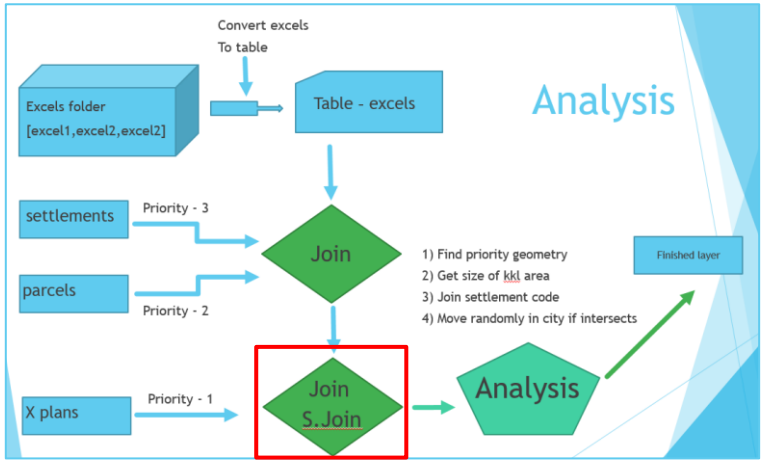
1) Read approved and None approved excels
2) Convert excels to tables
3) Change fields names
4) Convert to Table



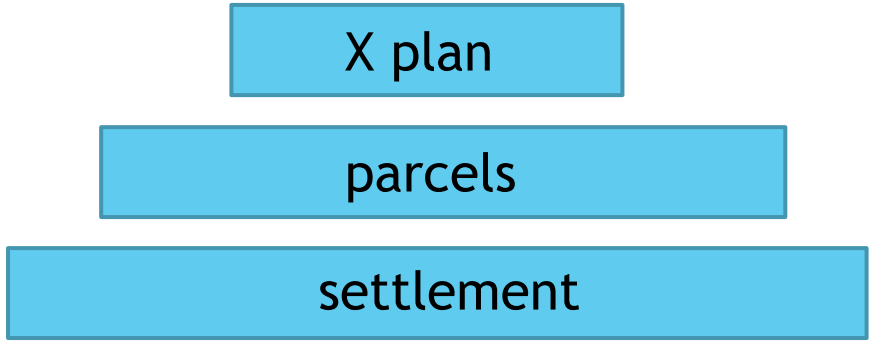
Join



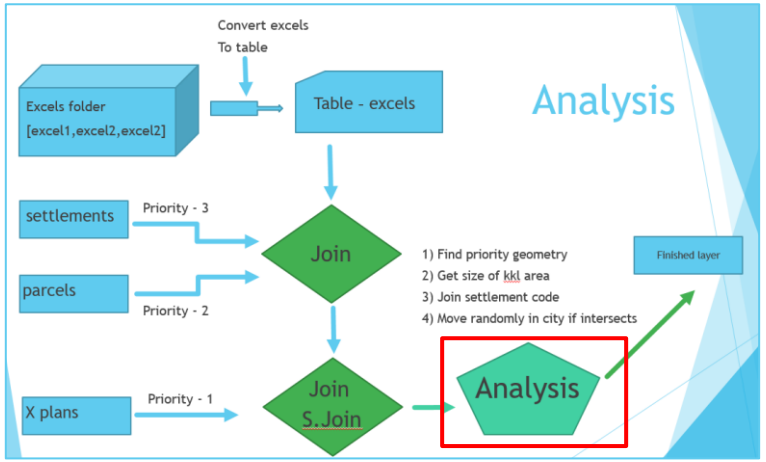
1) Extrect Geometry from Settlements and parcels
2) Run over value:
   a) join parcels to table extract geometry
   b) Join with city extract Code and geometry (if needed, priority 2).
3) Merge geometry of parcels if multi parcels



S.Join + Join

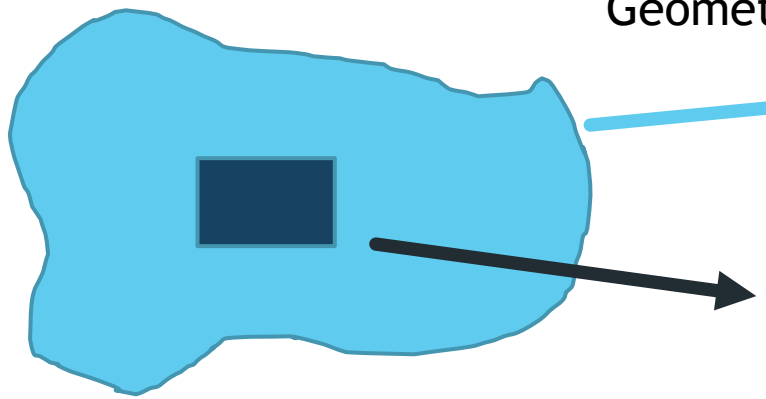


1) Intersect all plans with the smallest geometry (parcel or city) prior to field join, to eliminate un unnecessary plans.
2) Check “x plan” plan number to join with the table, “x plan” geometry will be the first priority in case of a match



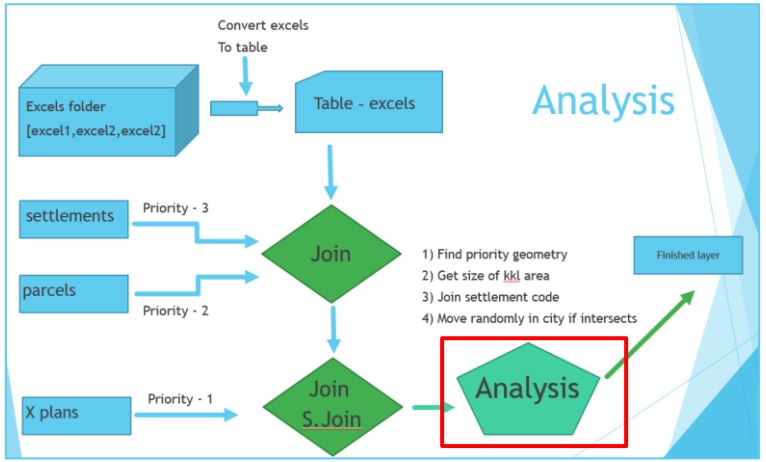
Analysis – convert geometry (City)

Convert Geometry to area size by the feld: שטח קק"ל if geometry came from city



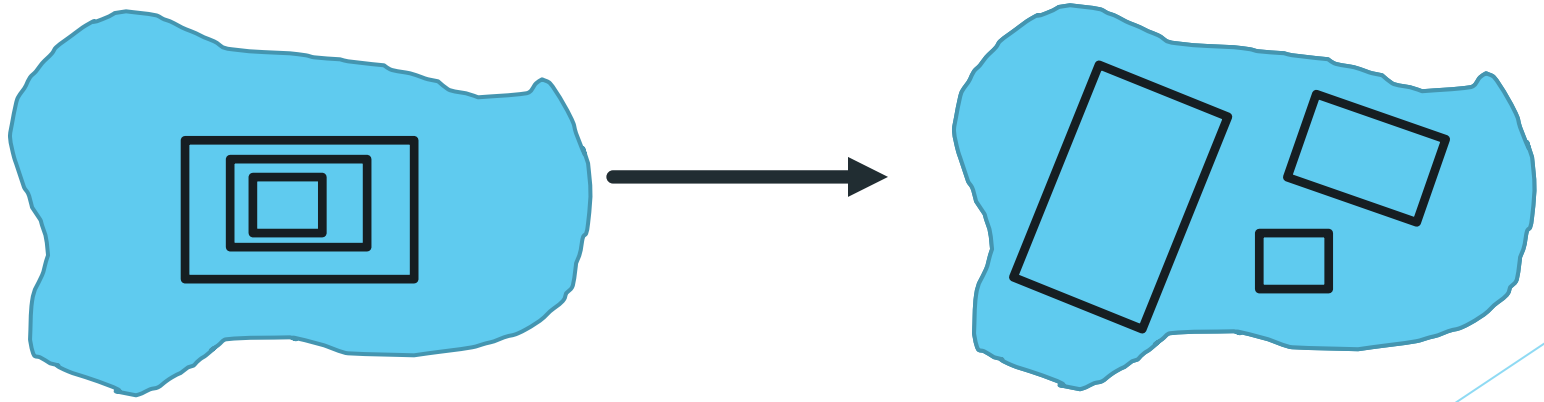
Geometry before change (came from city layer)

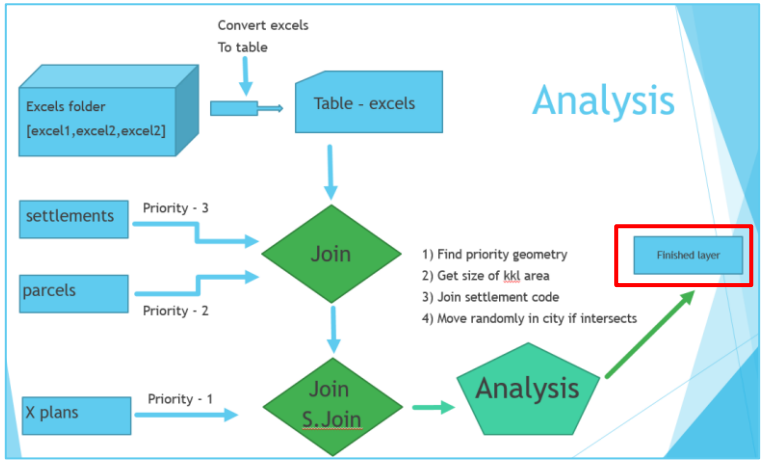
Geometry after check area and create box with the same area inside



Analysis – move geometry

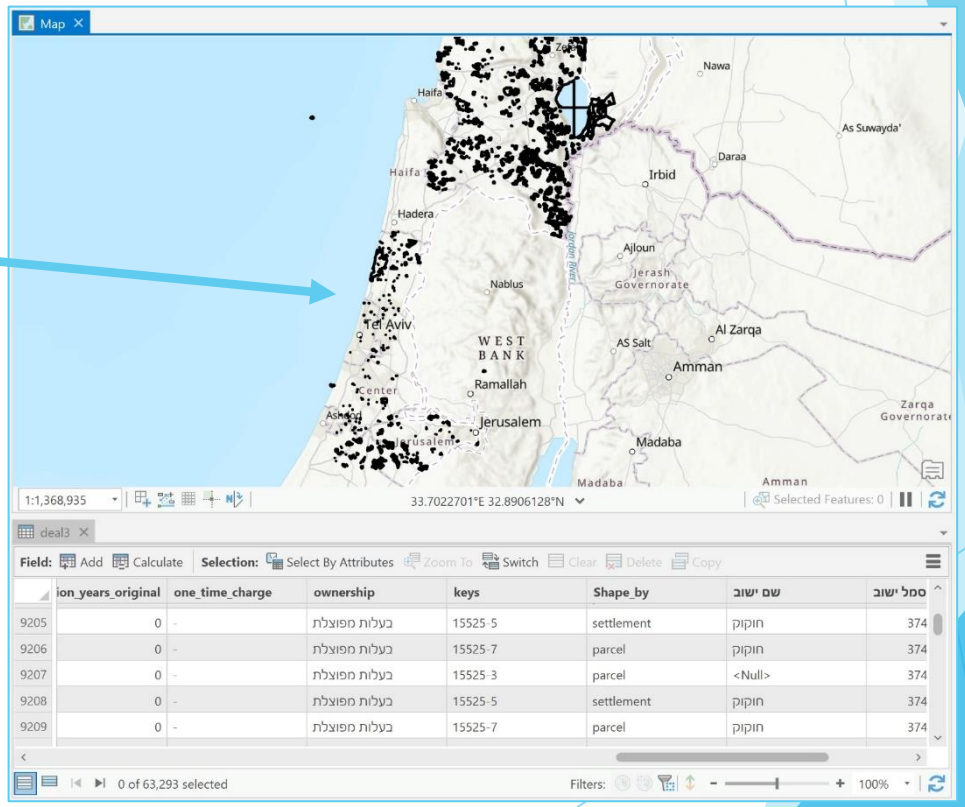
Move geometry randomly inside the city border if sitting on each other

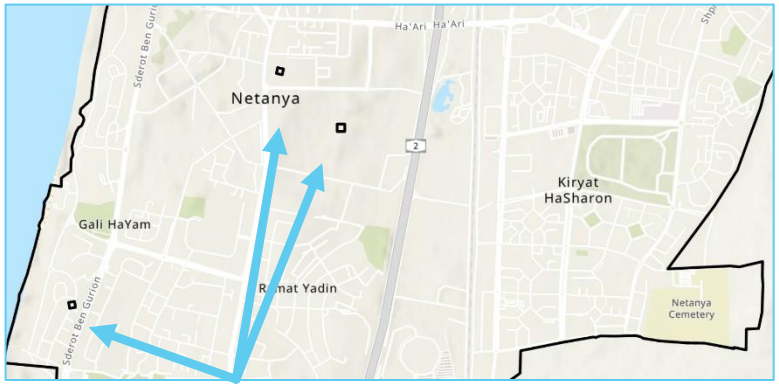




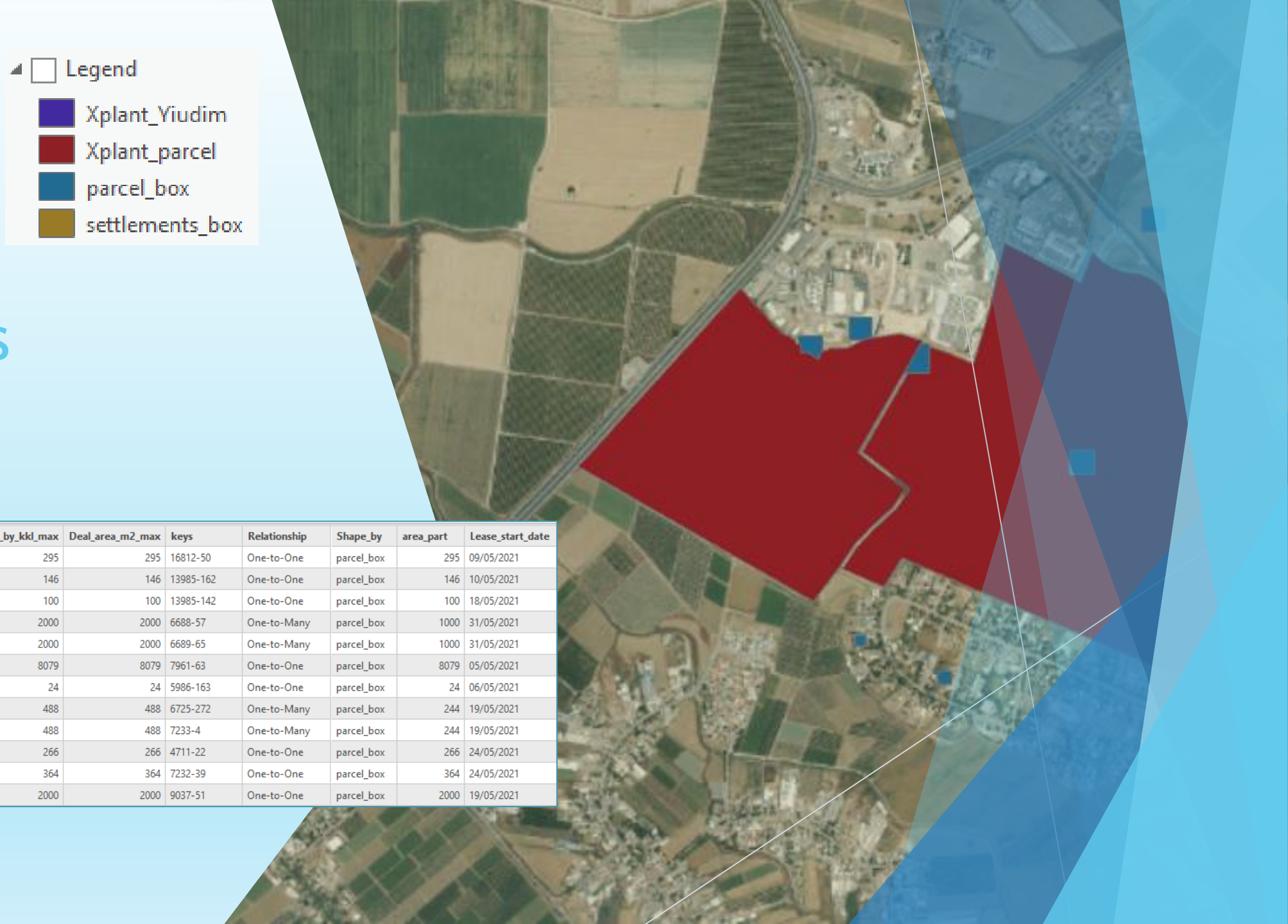
Result

63,400 items founds





(Area move randomly)



Examples

plan_number	field_number	city	Area_own_by_kkl_max	Deal_area_m2_max	keys	Relationship	Shape_by	area_part	Lease_start_date
3655/ג	<Null>	מרחביה מושב	295	295	16812-50	One-to-One	parcel_box	295	09/05/2021
21484/ג	<Null>	שדה אליעזר	146	146	13985-162	One-to-One	parcel_box	146	10/05/2021
21484/ג	<Null>	שדה אליעזר	100	100	13985-142	One-to-One	parcel_box	100	18/05/2021
562/גמ	158	סביון	2000	2000	6688-57	One-to-Many	parcel_box	1000	31/05/2021
562/גמ	158	סביון	2000	2000	6689-65	One-to-Many	parcel_box	1000	31/05/2021
-	-	נתניה	8079	8079	7961-63	One-to-One	parcel_box	8079	05/05/2021
1/312/בר	<Null>	גני טל	24	24	5986-163	One-to-One	parcel_box	24	06/05/2021
1000/שד	<Null>	מגשימים	488	488	6725-272	One-to-Many	parcel_box	244	19/05/2021
1000/שד	<Null>	מגשימים	488	488	7233-4	One-to-Many	parcel_box	244	19/05/2021
2020/בר	<Null>	קדרון	266	266	4711-22	One-to-One	parcel_box	266	24/05/2021
1000/שד	<Null>	מגשימים	364	364	7232-39	One-to-One	parcel_box	364	24/05/2021
שד/104/משמ	108	שדה ורבורג	2000	2000	9037-51	One-to-One	parcel_box	2000	19/05/2021

FINSIH