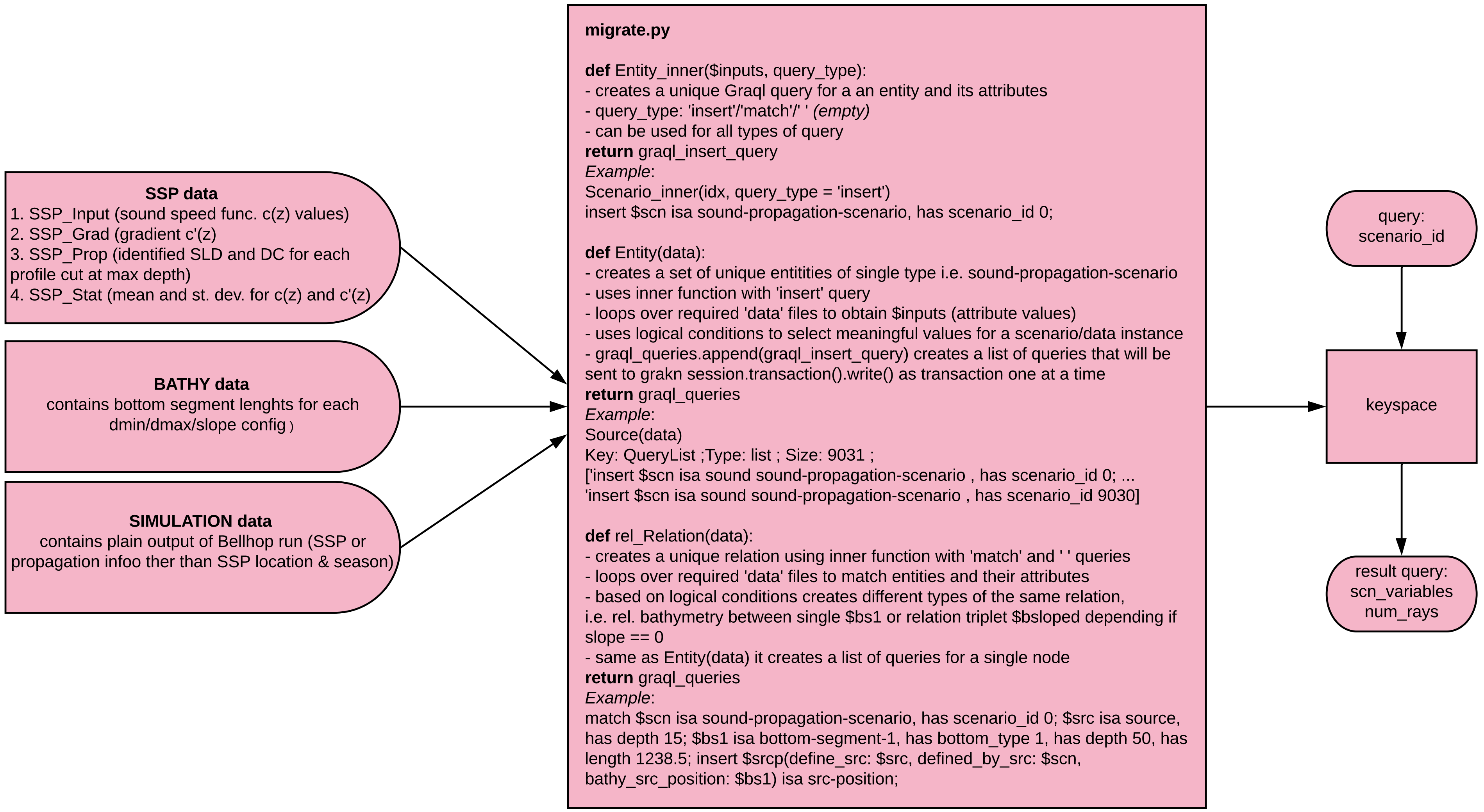

SSP data
1. SSP_Input (sound speed func. c(z) values)
2. SSP_Grad (gradient c'(z)
3. SSP_Prop (identified SLD and DC for each profile cut at max depth)
4. SSP_Stat (mean and st. dev. for c(z) and c'(z)

BATHY data
contains bottom segment lenghts for each dmin/dmax/slope config)

SIMULATION data
contains plain output of Bellhop run (SSP or propagation infoo ther than SSP location & season)

migrate.py

def Entity_inner($inputs, query_type):
- creates a unique Graql query for a an entity and its attributes
- query_type: 'insert'/'match'/' ' *(empty)*
- can be used for all types of query

return graql_insert_query
Example:
Scenario_inner(idx, query_type = 'insert')
insert $scn isa sound-propagation-scenario, has scenario_id 0;

def Entity(data):
- creates a set of unique entitities of single type i.e. sound-propagation-scenario
- uses inner function with 'insert' query
- loops over required 'data' files to obtain $inputs (attribute values)
- uses logical conditions to select meaningful values for a scenario/data instance
- graql_queries.append(graql_insert_query) creates a list of queries that will be sent to grakn session.transaction().write() as transaction one at a time

return graql_queries
Example:
Source(data)
Key: QueryList ;Type: list ; Size: 9031 ;
['insert $scn isa sound sound-propagation-scenario , has scenario_id 0; ...
'insert $scn isa sound sound-propagation-scenario , has scenario_id 9030]

def rel_Relation(data):
- creates a unique relation using inner function with 'match' and ' ' queries
- loops over required 'data' files to match entities and their attributes
- based on logical conditions creates different types of the same relation, i.e. rel. bathymetry between single $bs1 or relation triplet $bsloped depending if slope == 0
- same as Entity(data) it creates a list of queries for a single node

return graql_queries
Example:
match $scn isa sound-propagation-scenario, has scenario_id 0; $src isa source, has depth 15; $bs1 isa bottom-segment-1, has bottom_type 1, has depth 50, has length 1238.5; insert $srcp(define_src: $src, defined_by_src: $scn, bathy_src_position: $bs1) isa src-position;