Pattern extraction

What Is required?

* An input is an incident model that is based on the incident pattern meta-model.
  + A model contains specific entities and relationships between them.

Process to extract a pattern. It can be as follows:

* First, do an abstraction round for the entities only. Define a set of entities SE (Specific Entities), then do a function Q(se) = ae, where se belongs to SE and ae belongs to AE (Abstract Entity set). However, the abstract entity set (.e. AE) is created from the Q function and can be refined/changed or different sets can be created that correspond to the Q function.
  + What is Q function? How should we define it?
  + We could introduce **abstraction levels** in the system meta-model. Thus, if an entity is abstracted to a level, then all entities in a condition (pre or post) will be abstracted to the same level. What is an abstraction level? An abstraction level can be defined by the inheritance and association relations.
  + How about properties of an entity? Indication of the abstraction level at which it can exist could be a solution.
* Second, do an abstraction of the conditions of concrete activities defined. How abstraction should be done? Define **rules**. Abstraction rules can be defined over the relationships (containment and connectivity) of BRS statements in conditions.