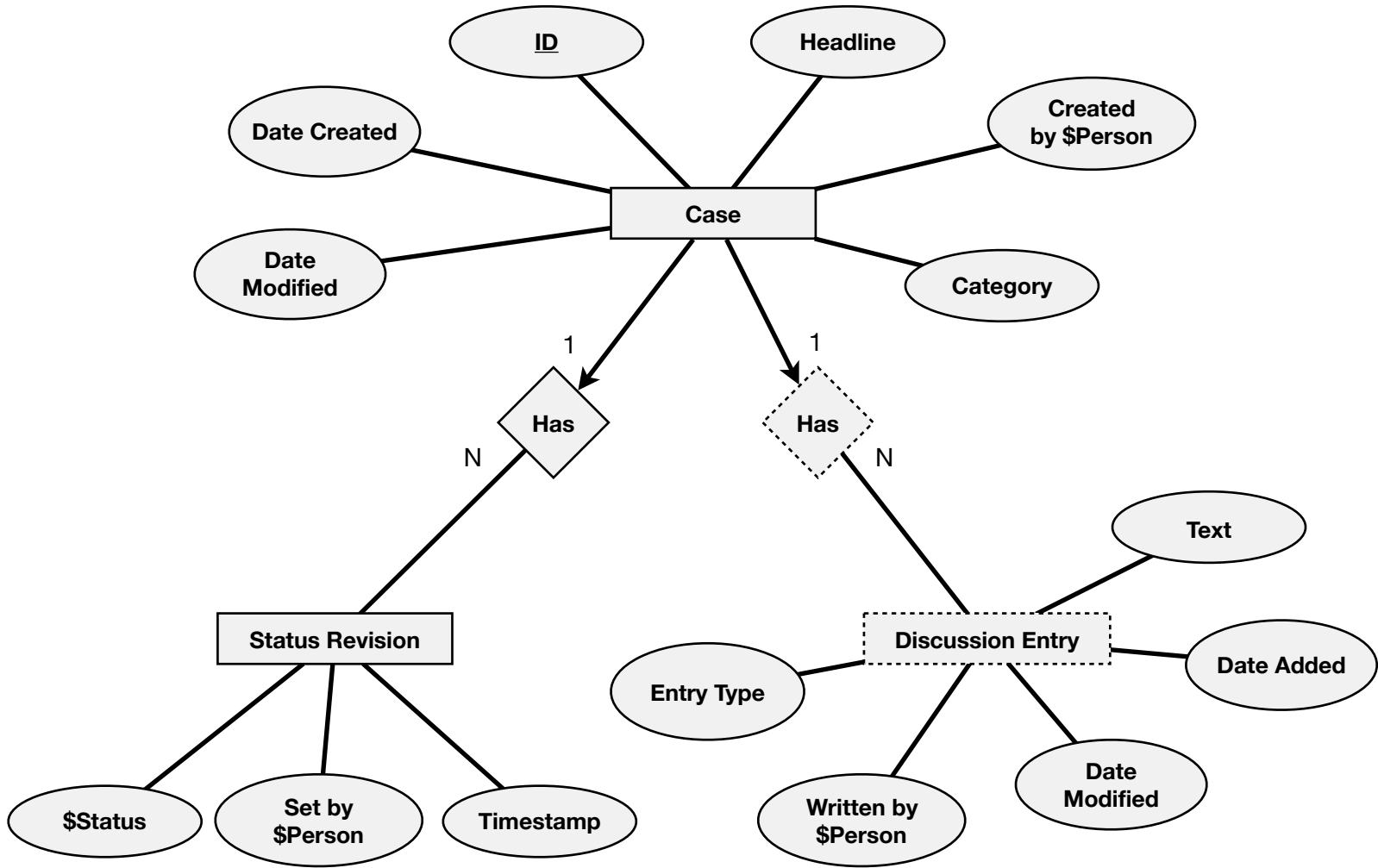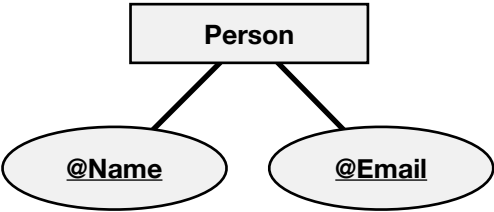ER Diagram for a Bugtracks data pool

To assist with merging, these tables are not implemented relationally. Instead, they are calculated. For example, to get a list of all people, query for all the distinct authors from all the status revisions and discussion entries.

This way, most modification operations require minimal insertions or changes, which hopefully will make merging easier.

A person has a list of name/email combinations. Any of these entries can be used to identify the person.

A status is a phrase, such as "Fixed", or "In Progress". The text is unique. That's pretty much it.