DiscourseDB v0.2 Oliver Ferschke <ferschke@cs.cmu.edu> discoursedb Carolyn P. Rosé <cprose@cs.cmu.edu> id discoursedb BIGINT schema\_version VARCHAR(200) start\_time DATETIME ond\_time DATETIME This table holds basic bookkeeping information - e.g. schema version. Annotation Instances refer to this so we know with which version of the schema the annotations were produced. Annotations Annotation\_Type defines the invariant aspects of the type system (everything that's not related to a particular annotation isEntityAnnotation defines whether an annotation of this type refers to a span in the text field of a Content the whole entity it is associated with. Annotation\_Instance  $Alternatively, we could introduce different types of annotations (Span\_Annotation, Entity\_Annotation), but \\$ CoveredText explicitly holds the span of text covered by the annotation. This can be inferred by the index Annotations have a lifetime like all other major entities and relations to indicate the timespan in which the These field are optional and can be used if this information is available and required. aggregates all annotations related to an entity or relation table. annotation\_instance id annotation instance BIGINT annotation\_type ▼ annotation begin\_offset INT id\_annotation\_type BIGI. id annotation BIGINT ond\_offset INT name VARCHAR(45) covered\_text TEXT description VARCHAR(... fk annotation BIGINT isEntityAnnotation BOO.. start\_time DATETIME fk\_annotation\_type BIGINT fk\_discoursedb BIGINT feature\_type \_\_\_\_ feature\_instance id\_feat\_type BIGINT id\_feat\_inst BIGINT fk\_feat\_type BIGINT name VARCHAR(200) datatype VARCHAR(200) value TEXT odescription VARCHAR(... fk\_annotation\_instance B..

Feature\_Type defines name and type of the feature. The name is not part of the feature instance but rather part of the type so we can develop something like a type system.

However, we reduce the complexity to flat non-hierarchical type system.

The datatype defines how the value in the associated feature entity should be interpreted on the system side (e.g. String, StringArray, Boolean, etc).

The value field in the Feature entity stores String-representations of feature values.

This could be made more flexible by changing the value data type to BLOB and fully determine the representation by the feature type.

