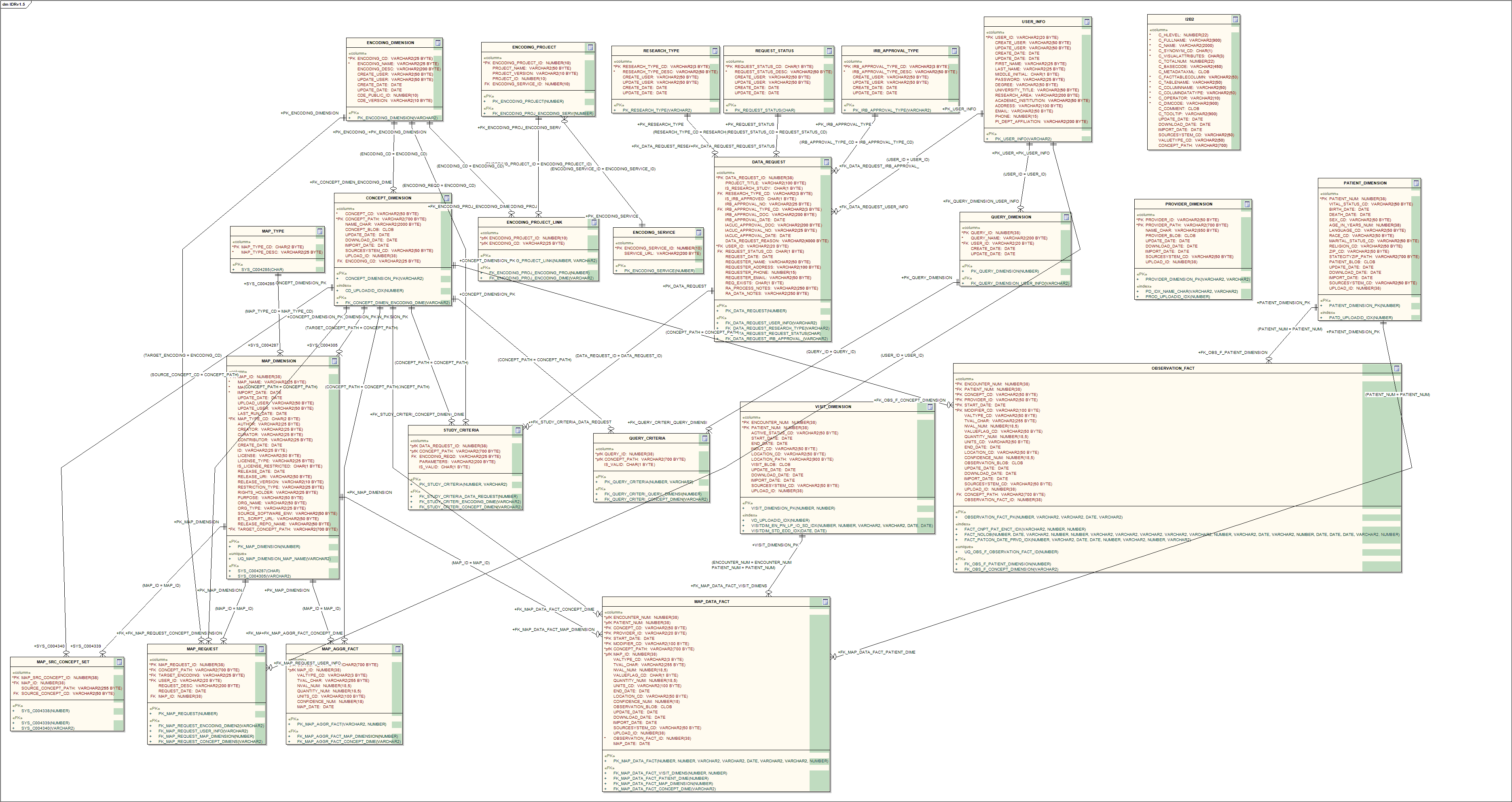
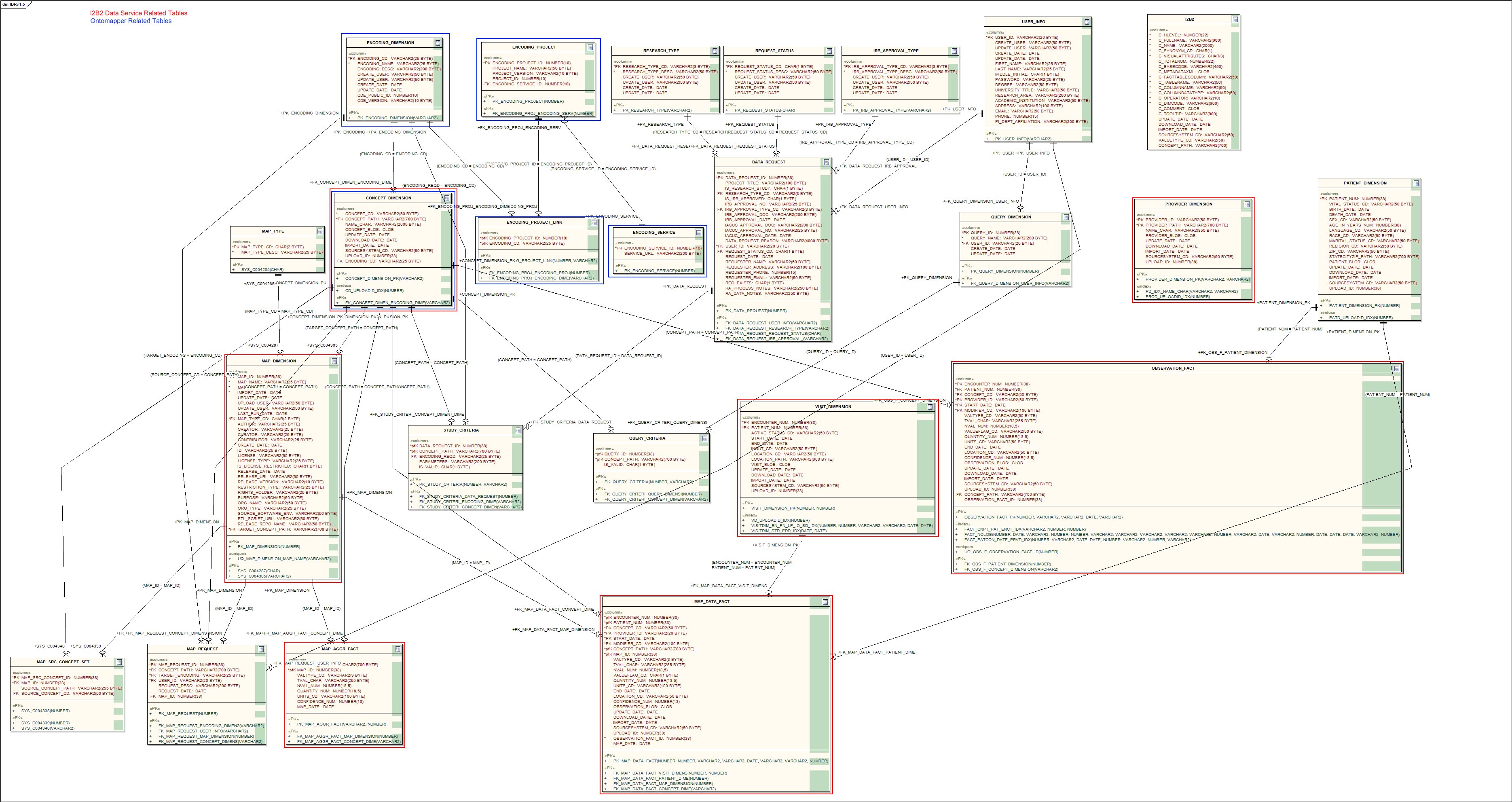
I2B2 as a caGrid Data Service

# Database

The complete i2b2 + ontomapper database schema:



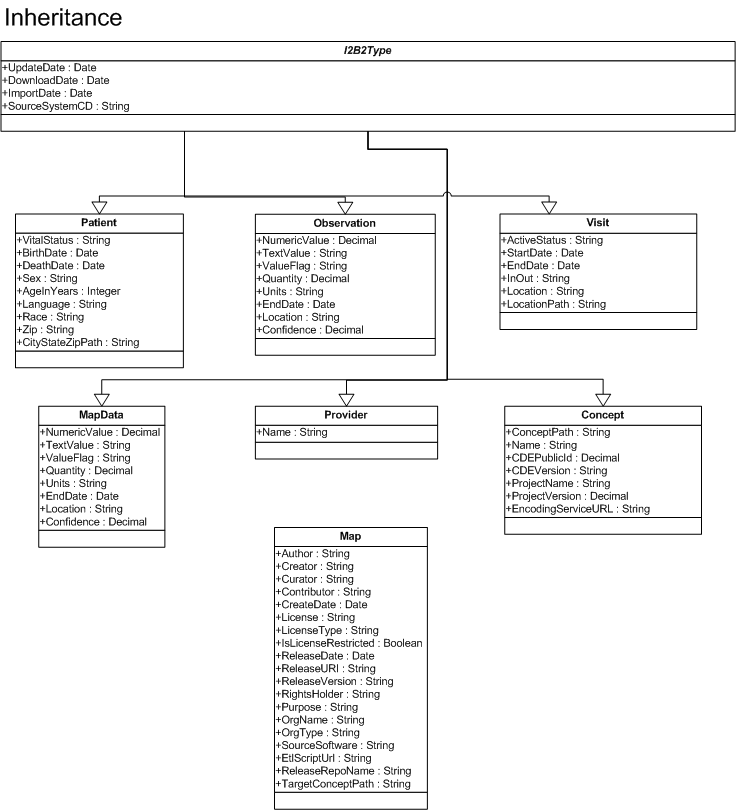
Not all of these tables are relevant to the proposed i2b2 data service model.



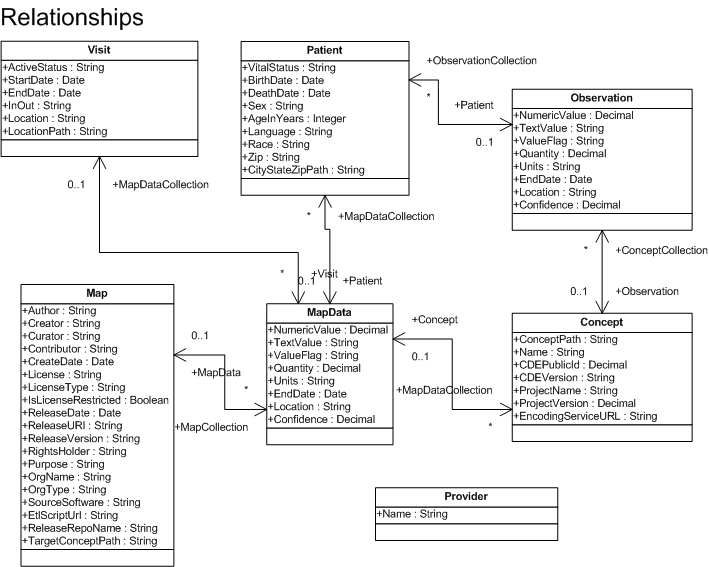
Tables highlighted in red represent tables which pertain to the i2b2 data service domain model and should be exposed via CQL to the grid. Tables in blue pertain to the Ontomapper. The CONCEPT\_DIMENSION table is highlighted with both colors, and provides a means of connecting the concept mapping capabilities of the Ontomapper with the clinical data in I2B2.

# Object Model

The Inheritance hierarchy for the I2B2 data service data model:



The class relationship model:



Many of the tables in the i2b2 database schema collapse into single datatypes by way of 1:1 join relationships in the model. For example, the Concept type draws data from the Concept\_Dimension, Encoding\_Dimension, and Encoding\_Service tables to fully describe a concept path, a corresponding CDE, and that CDE’s origin.

*I2B2Type* is an abstract base type which encapsulates some basic information about a data instance, such as when it was loaded into the datastore, and the source it came from.

TheMapData type allows for additional arbitrary data to be stored which pertains to one of the associated data type instances. The specific type of data stored in the MapData instance is specified via its association to Concept.