SMO table

SMO table
PID (SMO PID)
DAP SMO URL

SDO table

SDO table
PID (SDO PID)
DAP SDO URL

ORE table

ORE table
PID (ORE PID)
SDO PID
SMO PID
ORE Doc (BLOB)

Metadata table

Metadata table
PID (SDO, SMO, ORE)
serialNumber
dateAdded
formatId
size
checksum
algorithm

Datasets table

Datasets table
DAP URL
SMO PID
SDO PID
ORE PID

Obsoletes table

Obsoletes table
PID (SDO, SMO, ORE)
Obsoletes (PID)

Each PID appears once in the Metadata table and in only one of the SMO, SDO or ORE tables. It may appear in the Obsoletes table.

Note that the ORE table holds the ORE document because those documents include timestamps which broke the checksums if the docs were generated on-the-fly. We could also store the SMO and/or SDO for better performance, but JCS might be a better choice than the DB table.

The Datasets table helps track which DAP URLs are in this database and how to get more information about them. It is useful when updating existing entries or adding new entries to an existing database.