

# IngestTool Database

This database is intended to be a simple state management database for the ingest tool. However, it may be expanded to assist in ID mapping between purl's, internal/short id's, and possible fedora id's or pid's. Much of that data is needed here anyway, so it would be minimal additional cost or complexity to add lookup/mapping functionality.

All access to this data from the IngestTool is in `edu.indiana.dlib.server.ingestTool.IngestDB`.

Password information is in `IngestTool.properties`.

A creation script is in `cvs:/infrastructure/oracleCreateScript.sql`

## Database Layout:

Tables:

- [IngestRecords](#) – This is the main table. Each ingest request will return a new row in this table, which will have a single state, a set of events, and a set of items.
- [IngestStates](#) – This defines the possible current states for the ingestions.
- [IngestEvents](#) – This defines the events that have occurred on an ingestion.
- [IngestEventTypes](#) – This defines the possible event types for the events.
- [IngestItems](#) – This defines the items which have been operated on for an ingestion.
- [IngestItemState](#) – This defines the possible states for the ingest items.

## IngestRecords

Columns:

- id
  - PK
  - numeric(10,0)
  - not null
- state
  - FK to IngestStates(PK)
  - numeric(10,0)
  - not null
- access
  - varchar(1024)
  - not null

## IngestStates

Columns:

- id
  - PK
  - numeric(10,0)
  - not null
- abbrev
  - varchar(255)
  - not null
- description
  - varchar(1024)
  - not null

ID is a Fixed List:

- 1) NEW – New ID Created
- 2) INGEST – Ingestion in progress
- 3) ERROR – Ingestion failed
- 4) DONE – Ingestion complete
- 5) TERMINATE – Termination requested
- 6) STOPPED – Ingestion prematurely terminated

## IngestEvents

Columns:

- record
  - FK to IngestRecords(PK)
  - numeric(10,0)
  - not null
- event
  - FK to IngestEventTypes(PK)
  - numeric(10,0)
  - not null
- ts
  - date
  - not null
- details
  - varchar(4000)
  - nullable

## IngestEventTypes

Columns:

- id
  - PK
  - numeric(10,0)
  - not null
- abbrev
  - varchar(255)
  - not null
- description
  - varchar(1024)
  - not null

ID is a Fixed List:

— standard state switches and operations —

- 1) NEW – New ID Created
- 2) INGEST – Initial ingestion started
- 3) ERROR – Ingestion terminated abnormally
- 4) DONE – Ingestion terminated normally
- 5) TERMINATE – Termination requested
- 6) STOPPED – Ingestion prematurely terminated

— non-state affecting commands —

- 100) STATUS – Current status requested

— errors and abnormal commands —

- 1000) INVALID\_INGEST – An ingest process was started with an invalid ID
- 1001) INVALID\_STATUS – A status request was made with an invalid ID
- 1002) CONCURRENT\_INGEST – An ingest request was made while another ingest was in progress for this score
- 1003) REINGEST – An additional ingestion was started
- 1004) ACCESS\_DENIED – An ingest request was made with an invalid access code

## IngestItems

Columns:

- record
  - FK to IngestRecords(PK)
  - numeric(10,0)
  - not null
- state
  - FK to IngestItemState(PK)
  - numeric(10,0)
  - not null
- shortID
  - varchar(64)
  - nullable
- internalID
  - varchar(128)
  - nullable
- purID
  - varchar(256)

- nullable
- fedoraPID
  - varchar(64)
  - nullable
- ts
  - date
  - not null
- details
  - varchar(4000)
  - nullable

## IngestItemState

Columns:

- id
  - PK
  - numeric(10,0)
  - not null
- abbrev
  - varchar(255)
  - not null
- description
  - varchar(1024)
  - not null

ID is a Fixed List:

— standard state switches and operations —

- 1) NEW – New ID Created
- 2) INGEST – Initial ingestion started
- 3) ERROR – Ingestion terminated abnormally
- 4) DONE – Ingestion terminated normally