

SAP DB Loader

As of database version 7.4, SAP DB will provide a new tool, the SAP DB Loader. This replaces the Replication Manager.

With the SAP DB Loader, you can load, unload, and format data. In the following, these functions are also collectively described as transforming. Files and pipes are supported as media for the generated data streams.

During data transport from one database instance to another, you can link the unload process with the load process using a pipe. The output data stream of one database instance directly constitutes the input data stream for the other database instance. No additional storage space is required in the file system for data transported in this way.

The language scope of the SAP DB Loader allows you to transform data in various granularities:

- All data of all users
- All data of one user
- The data of one table
- A quantity of qualified columns of one or more tables

Overview of Commands for Loading and Unloading Data

What is to be loaded/unloaded?	SAP DB Loader Commands
Database	DBEXTRACT DBLOAD
Database catalog	CATALOGEXTRACT ALL CATALOGLOAD ALL
Database catalog objects and application data of a user	CATALOGEXTRACT USER CATALOGLOAD USER TABLEEXTRACT USER TABLELOAD USER
Tables	CATALOGEXTRACT TABLE CATALOGLOAD TABLE TABLEEXTRACT TABLE TABLELOAD TABLE DATAEXTRACT DATALOAD
Quantity of qualified columns of a table	DATAEXTRACT DATALOAD FASTLOAD DATAUPDATE

Data Formats

The SAP DB Loader can process the following data:

- Application data
- Database catalog metadata
- Transformation metadata

The **application data** can be in various text and binary formats in the data stream:

- Text format
 - FORMATTED (FWV)
 - COMPRESSED (CSV)
- Binary format (proprietary)
 - PAGES
 - RECORDS

The **database catalog metadata** can be in the following formats in the data stream:

- DDL statements
- XML format

The **transformation metadata** can be in the following formats in the data stream:

- Loader commands
- FORMATTED, COMPRESSED

The transformation metadata configure the transformation steps of a load/unload process and log its execution.

You can generate the corresponding load process for an existing database catalog using the transformation metadata.

Restartability

Using the runtime log, it is possible to perform a runtime analysis and to restart the action.

The transformation metadata enables you to restart the same load/unload process in the case of a premature termination, or to use the inverse Loader command at the end of a transformation.

Remote Access

You can also access remote database instances with the SAP DB Loader.

Embedding in Script Languages

There are different ways to execute the SAP DB Loader commands:

- With the SAP DB Loader CLI program (LOADERCLI)
- With the libraries provided for the Python, Perl, and Java script languages

In Planning

- Migration of an ASCII database instance into a UNICODE database instance depending on the local code page
- Loading/Unloading also directly from/to external backup tools and to tapes
- HTTP and XML support
- GUI for the SAP DB Loader