

DB2 zOS extractor - installation and configuration

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Installation

The first step is to upload the extractor source code onto the z/OS execution environment. **Please make sure you use the source code of the extractor that corresponds to the version of the DB2 server you are working on.** You then need to adapt the JCL source code to the environment in which it is going to be executed and, perhaps, to the version of DB2. This operation **MUST** be completed before you run the z/OS job.



- If you are experiencing issues during the installation, configuration or execution of the extractor and if you need to contact CAST Support, please mention the version of the extractor you are using.
- The version dedicated to DB2 v8 and v9 has the prefix "A." (ex: A.1.11.4) and the version dedicated to DB2 v7 has the prefix "B." (ex: B.1.11.4). You can determine the version of the extractor in the JCL header.

Configuration

Specific cards

Configuration changes must be made in the following JCL cards:

- JOB cards
- JOBLIB DD card

In addition, it may be necessary to adapt the SYSTSIN cards of steps STEP02 to STEP26 to the version of DB2. The macros to adapt are as follows:

- SYSTEM
- LIB
- PLAN

```
//SYSTSIN DD *  
DSN SYSTEM(DB8G)  
RUN PROGRAM(DSNTIAUL) PLAN(DSNTIB81) -  
LIB('DSN810.RUNLIB.LOAD') PARMS('SQL')
```

Dataset names and MANIFEST

If the dataset names must be changed, then it is important to modify the following cards:

- STEP00: SYSIN card
- STEP01: FILEOUT card
- STEP02 to STEP26: SYSREC00 card

The content of the section "GENERATED FILES" of the file "CAST.DB2.MANIFEST" (generated by step STEP01 in FILEIN DD card) must be coherent with the final dataset names used on the Windows server and which are delivered via the CAST Delivery Manager Tool. For instance, if the file containing the database information is named "TSTENV.DB2.DBASE" on the z/OS environment and then "DBASE.TXT" on the Windows server, then the content of the file "CAST.DB2.MANIFEST" must be modified to reference "DBASE.TXT". However, the content of the MANIFEST file can be changed once it is on the Windows server.

Dataset names used in step STEP00 (SYSIN DD card) must be coherent with the dataset names used in steps STEP02-STEP26 (SYSREC00 DD cards).

The other sections of the file "CAST.DB2.MANIFEST" must not be changed.

Main files	Secondary files
GLOBAL.DATABASES	GLOBAL.IDXCOL
GLOBAL.SCHEMAS	TABLES.COL
GLOBAL.DTP	TABLES.DEP
GLOBAL.UDT	VIEWS.DEP
TABLES.DEF	VIEWS.DDL
VIEWS.DEF	TRIGGERS.DDL
GLOBAL.ALIASES	GLOBAL.PARAMETERS
GLOBAL.MQT	PROCEDURES.DDL
GLOBAL.CGTT	FUNCTIONS.DDL
GLOBAL.AUXTAB	MQT.DDL
GLOBAL.IDX	
TRIGGERS.DEF	
PROCEDURES.DEF	
FUNCTIONS.DEF	

For instance, if an object is referenced in the file "TABLES.COL" but it is not found in the file "TABLES.DEF" or in the file "VIEWS.DEF", then this information will not be taken into account. The same behaviour occurs if a view is referenced in the file "VIEWS.DDL" and if this view is not present in the file "VIEWS.DEF".

Filtering the data extraction

It is possible to adjust the data extraction by filtering the generated information. This can be done by inserting specific predicates in the WHERE clause of SQL queries. These predicates are generally based on either (A) creator (for example: CREATOR IN ('xxx', 'yyy', ...), where xxx and yyy are creator names) or (B) database name (for example: CHAR(DBNAME) IN ('xxx','yyy', ...), where xxx and yyy are database names).

Please note that filtering must be done using the same criteria in all steps to avoid inconsistencies in the information that is generated. The steps which can be changed to insert filters are as follows:

- 02 - EXTRACTING DATABASES (can be filtered by using predicate A or B)
- 06 - EXTRACTING TABLES (can be filtered by using predicate A or B)
- 07 - EXTRACTING VIEWS (can be filtered by using predicate A or B)
- 08 - EXTRACTING ALIASES (can be filtered by using predicate A or B)
- 09 - EXTRACTING MATERIALIZED QUERY TABLE (can be filtered by using predicate A or B)
- 10 - EXTRACTING AUXILIARY TABLES (can be filtered by using predicate A or B)
- 11 - EXTRACTING COLUMNS (can be filtered by using predicate A or B)
- 12 - EXTRACTING INDEX (can be filtered by using predicate A or B)
- 13 - EXTRACTING INDEXED COLUMNS (can be filtered by using predicate A or B)
- 14 - EXTRACTING TRIGGERS (can be filtered by using predicate A)
- 15 - EXTRACTING TABLE REFERENCES (can be filtered by using predicate A or B)
- 16 - EXTRACTING VIEW DEPENDENCIES (can be filtered by using predicate A)
- 17 - EXTRACTING VIEW DDL (can be filtered by using predicate A)
- 18 - EXTRACTING TRIGGER DDL (can be filtered by using predicate A)
- 24 - EXTRACTING MATERIALIZED QUERY TABLE SRC (can be filtered by using predicate A)
- 25 - EXTRACTING CREATED GLOBAL TEMP TABLES (can be filtered by using predicate A or B)
- 26 - EXTRACTING NUMBER OF ROWS FOR TABLES (can be filtered by using predicate A or B)

Please consult the headers of above steps for suggested filters.