


# Catalog changes in Db2 12

Use this information to plan for catalog changes in Db2 12.

## Important

Db2 12 introduces continuous delivery of new capabilities and enhancements in function levels. Most Db2 12 enhancements and changes become available only after the activation of the function level that delivers them. For more information, see [Activating Db2 12 function levels](#). Each new or changed item is labeled below with a link to information about the Db2 12 function level that delivered it.

## New catalog tables in Db2 12

 (FL 100) Db2 12 introduces the following new catalog tables in catalog level V12R1M500, which is the catalog level for both function level 100 and function level 500:

- [SYSDYNQRY catalog table](#)
- [SYSDYNQRYDEP catalog table](#)
- [SYSDYNQRY\\_EXPL catalog table](#)
- [SYSDYNQRY\\_OPL catalog table](#)
- [SYSDYNQRY\\_SHTL catalog table](#)
- [SYSDYNQRY\\_SPAL catalog table](#)
- [SYSDYNQRY\\_TXTL catalog table](#)
- [SYSINDEXCONTROL catalog table](#)
- [SYSIBM.SYSIXSPACESTATS\\_H](#), which is described in [Temporal versioning for Db2 catalog tables](#)
- [SYSLEVELUPDATES catalog table](#)
- [SYSSESSION catalog table](#)

- [SYSSESSION\\_EX catalog table](#)
- [SYSSESSION\\_STATUS catalog table](#)
- SYSIBM.SYSTABSPACESTATS\_H, which is described in [Temporal versioning for Db2 catalog tables](#)
- The following catalog tables are added but not used:
  - SYSAUDITPOLICIES\_H
  - SYSCOLAUTH\_H
  - SYSCONTEXT\_H
  - SYSCONTEXTAUTHID\_H
  - SYSCONTROLS\_H
  - SYSCTXTTRUSTATTR\_H
  - SYSDBAUTH\_H
  - SYSPACKAUTH\_H
  - SYSPLANAUTH\_H
  - SYSRESAUTH\_H
  - SYSROUTINEAUTH\_H
  - SYSSCHEMAAUTH\_H
  - SYSSEQUENCEAUTH\_H
  - SYSTABAUTH\_H
  - SYSUSERAUTH\_H
  - SYSVIEWDEP\_H



## Changed catalog tables in Db2 12

The following table summarizes new and changed catalog table columns in Db2 12. Changes to columns include new column descriptions, new values, and changed data types and lengths.

Table 1. Summary of new and revised catalog table columns

Catalog table name	New column	Revised column
<a href="#">SYSAUDITPOLICIES catalog table</a>	<p>(FL 100) The following columns:</p> <ul style="list-style-type: none"> <li>• SYS_START</li> <li>• SYS_END</li> <li>• TRANS_START</li> </ul>	
<a href="#">SYSCOLAUTH catalog table</a>	<p>(FL 100) The following columns:</p> <ul style="list-style-type: none"> <li>• SYS_START</li> <li>• SYS_END</li> <li>• TRANS_START</li> </ul>	
<a href="#">SYSCOLUMNS catalog table</a>	<ul style="list-style-type: none"> <li>• ENCODING_SCHEME</li> </ul>	<ul style="list-style-type: none"> <li>• (FL 100) PERIOD</li> </ul>
<a href="#">SYSCONTEXTAUTHIDS catalog table</a>	<p>(FL 100) The following columns:</p> <ul style="list-style-type: none"> <li>• SYS_START</li> <li>• SYS_END</li> <li>• TRANS_START</li> </ul>	
<a href="#">SYSCONTEXT catalog table</a>	<p>(FL 100) The following columns:</p> <ul style="list-style-type: none"> <li>• SYS_START</li> <li>• SYS_END</li> <li>• TRANS_START</li> </ul>	

Catalog table name	New column	Revised column
<a href="#">SYSCONTROLS catalog table</a>	<p>(FL 100) The following columns:</p> <ul style="list-style-type: none"> <li>• SYS_START</li> <li>• SYS_END</li> <li>• TRANS_START</li> <li>• REGENERATETS</li> </ul>	
<a href="#">SYSCOPY catalog table</a>		<p>(FL 100) The following columns:</p> <ul style="list-style-type: none"> <li>• <a href="#">&gt; </a> DSVOLSER <a href="#"> &lt;</a></li> <li>• ICTYPE</li> <li>• STYPE</li> <li>• TTYPE</li> </ul>
<a href="#">SYSCTXTTRUSTATTRS catalog table</a>	<p>(FL 100) The following columns:</p> <ul style="list-style-type: none"> <li>• SYS_START</li> <li>• SYS_END</li> <li>• TRANS_START</li> </ul>	
<a href="#">SYSDBAUTH catalog table</a>	<p>(FL 100) The following columns:</p> <ul style="list-style-type: none"> <li>• SYS_START</li> <li>• SYS_END</li> <li>• TRANS_START</li> </ul>	
		<ul style="list-style-type: none"> <li>• <a href="#">(FL 100)</a> DTYPE</li> </ul>

Catalog table name	New column	Revised column
<a href="#">SYSDEPENDENCIES</a> catalog table		
<a href="#">SYSENVIRONMENT</a> catalog table	<p>(FL 100) The following columns:</p> <ul style="list-style-type: none"> <li>CREATEDTS</li> <li>APPLCOMPAT</li> </ul>	
<a href="#">SYSINDEXSPACESTATS</a> catalog table	<p>(FL 100) The following columns:</p> <ul style="list-style-type: none"> <li>SYS_START</li> <li>SYS_END</li> <li>TRANS_START</li> </ul>	
<a href="#">SYSINDEXPART</a> catalog table	<p>(FL 100) The following columns:</p> <ul style="list-style-type: none"> <li>DSSIZE</li> <li>PAGENUM</li> <li>LIMITKEY_EXTERNAL</li> </ul>	
<a href="#">SYSINDEXES</a> catalog table	<ul style="list-style-type: none"> <li>(FL 502) KEYLABEL</li> <li>(FL 100) The following columns: <ul style="list-style-type: none"> <li>PQTY</li> <li>STORTYPE</li> <li>STORNAME</li> <li>VCATNAME</li> <li>FREEPAGE</li> </ul> </li> </ul>	<p>(FL 100) The following columns:</p> <ul style="list-style-type: none"> <li>DTYPE</li> <li>DSSIZE</li> <li>PAGENUM</li> <li>PARTKEYCOLNUM</li> <li>STATUS</li> <li>INDEXSTATUS</li> </ul>

Catalog table name	New column	Revised column
	<ul style="list-style-type: none"> <li>◦ PCTFREE</li> <li>◦ GBPCACHE</li> <li>◦ SECQTYI</li> <li>◦ ENFORCED_CONS</li> <li>◦ IMPLICIT</li> <li>◦ REGENERATETS</li> </ul>	<ul style="list-style-type: none"> <li>• PARTITIONS</li> </ul>
SYSINDEXPART catalog table		<ul style="list-style-type: none"> <li>• SPACE</li> </ul>
SYSKEYCOLUSE catalog table		<ul style="list-style-type: none"> <li>• (FL 100) PERIOD</li> </ul>
SYSKEYS catalog table	<ul style="list-style-type: none"> <li>• (FL 100) CREATEDTS</li> </ul>	<ul style="list-style-type: none"> <li>• (FL 100) PERIOD</li> </ul>
SYSKEYTGTDIST catalog table		<ul style="list-style-type: none"> <li>• (FL 100) NUMKEYS</li> </ul>
SYSPENDINGDDL catalog table	<p>(FL 100) The following columns:</p> <ul style="list-style-type: none"> <li>• REORG_SCOPE_LOWPART</li> <li>• REORG_SCOPE_HIGHPART</li> </ul>	<ul style="list-style-type: none"> <li>• (FL 100) PARTITION</li> </ul>
SYSPACKAGE catalog table	<p>&gt;  (FL 505) The following column:</p> <ul style="list-style-type: none"> <li>• COPYID</li> </ul> <p> &lt;</p> <p>(FL 100) The following columns:</p> <ul style="list-style-type: none"> <li>• APREUSE_NO_FL</li> </ul>	<p>(FL 100) The following columns:</p> <ul style="list-style-type: none"> <li>• TYPE</li> <li>• HOSTLANG</li> <li>• VERSION</li> <li>• DEFERPREPARE</li> <li>• APPLCOMPAT</li> </ul>

Catalog table name	New column	Revised column
	<ul style="list-style-type: none"> <li>• APREUSE_NO_TS</li> <li>• CONC_STMT</li> <li>• FUNCTION_LVL</li> <li>• ORIGIN</li> </ul>	<ul style="list-style-type: none"> <li>• DTYPE</li> <li>• KEEP_DYNAMIC</li> </ul>
SYSPACKAUTH catalog table	<p>(FL 100) The following columns:</p> <ul style="list-style-type: none"> <li>• SYS_START</li> <li>• SYS_END</li> <li>• TRANS_START</li> </ul>	
SYSPACKCOPY catalog table	<p>&gt;  (FL 505) The following column:</p> <ul style="list-style-type: none"> <li>• COPYID</li> </ul> <p> &lt;</p> <p>(FL 100) The following columns:</p> <ul style="list-style-type: none"> <li>• ORIGIN</li> <li>• &gt;  APREUSE_NO_FL  &lt;</li> <li>• APREUSE_NO_TS</li> <li>• CONC_STMT</li> <li>• FUNCTION_LVL</li> </ul>	
SYSPACKDEP catalog table	<p>&gt;  (FL 505) The following column:</p> <ul style="list-style-type: none"> <li>• COPYID</li> </ul>	<ul style="list-style-type: none"> <li>• (FL 100) DTYPE</li> </ul>

Catalog table name	New column	Revised column
	<	
SYSPACKSTMT catalog table	>  (FL 505)The following column: <ul style="list-style-type: none"> <li>COPYID</li> </ul>  <  (FL 100) The following columns: <ul style="list-style-type: none"> <li>QUERYID</li> <li>QUERY_HASH</li> <li>QUERY_HASH_VERSION</li> </ul>	
SYSPLANAUTH catalog table	(FL 100) The following columns: <ul style="list-style-type: none"> <li>SYS_START</li> <li>SYS_END</li> <li>TRANS_START</li> </ul>	
SYSRELS catalog table	(FL 100) The following columns: <ul style="list-style-type: none"> <li>FUNCTION_LVL</li> </ul>	
SYSRELS catalog table		<ul style="list-style-type: none"> <li>(FL 100) CHECKEXISTING-DATA</li> </ul>
SYSRESAUTH catalog table	(FL 100) The following columns:	



Catalog table name	New column	Revised column
	<ul style="list-style-type: none"> <li>• SYS_START</li> <li>• SYS_END</li> <li>• TRANS_START</li> </ul>	
SYSROUTINEAUTH catalog table	<p>(FL 100) The following columns:</p> <ul style="list-style-type: none"> <li>• SYS_START</li> <li>• SYS_END</li> <li>• TRANS_START</li> </ul>	
SYSROUTINES catalog table	<ul style="list-style-type: none"> <li>• WRAPPED</li> <li>• REGENERATETS</li> </ul>	
SYSSCHEMAAUTH catalog table	<p>(FL 100) The following columns:</p> <ul style="list-style-type: none"> <li>• SYS_START</li> <li>• SYS_END</li> <li>• TRANS_START</li> </ul>	
SYSSEQUENCES catalog table		<ul style="list-style-type: none"> <li>• (FL 100) MAXASSIGNEDVAL</li> </ul>
SYSSEQUENCEAUTH catalog table	<p>(FL 100) The following columns:</p> <ul style="list-style-type: none"> <li>• SYS_START</li> <li>• SYS_END</li> <li>• TRANS_START</li> </ul>	

Catalog table name	New column	Revised column
<a href="#">SYSSTOGROUP</a> catalog table	<ul style="list-style-type: none"> <li><a href="#">(FL 502)</a> KEYLABEL</li> </ul>	
<a href="#">SYSTABAUTH</a> catalog table	<p><a href="#">(FL 100)</a> The following columns:</p> <ul style="list-style-type: none"> <li>UNLOADAUTH</li> <li>SYS_START</li> <li>SYS_END</li> <li>TRANS_START</li> </ul>	
<a href="#">SYSTABCONST</a> catalog table		<ul style="list-style-type: none"> <li><a href="#">(FL 100)</a> TYPE</li> </ul>
<a href="#">SYSTABLEPART</a> catalog table	<p><a href="#">(FL 100)</a> The following columns:</p> <ul style="list-style-type: none"> <li>TYPE</li> <li>PAGENUM</li> <li>BPOOL</li> <li>PGSIZE</li> <li>DSSIZE</li> <li>MEMBER_CLUSTER</li> <li>COMPRESSRATIO</li> </ul>	<ul style="list-style-type: none"> <li>SPACE</li> </ul>
<a href="#">SYSTABLESPACE</a> catalog table	<ul style="list-style-type: none"> <li><a href="#">(FL 502)</a> KEYLABEL</li> <li><a href="#">(FL 100)</a> The following columns: <ul style="list-style-type: none"> <li>PAGENUM</li> <li>PQTY</li> <li>STORTYPE</li> </ul> </li> </ul>	

Catalog table name	New column	Revised column
	<ul style="list-style-type: none"> <li>◦ STORNAME</li> <li>◦ VCATNAME</li> <li>◦ FREEPAGE</li> <li>◦ PCTFREE</li> <li>◦ COMPRESS</li> <li>◦ COMPRESSRATIO</li> <li>◦ GBPCACHE</li> <li>◦ TRACKMOD</li> <li>◦ SECQTYI</li> <li>◦ PCTFREE_UPD</li> <li>◦ PCTFREE_UPD_CALC</li> <li>◦ INSERTALG</li> </ul>	
SYSTABLES catalog table	<ul style="list-style-type: none"> <li>• (FL 502) KEYLABEL</li> <li>• (FL 100) REGENERATETS</li> </ul>	<ul style="list-style-type: none"> <li>• (FL 100) TABLESTATUS</li> </ul>
SYSTABLESPACESTATS catalog table	<p>(FL 100) The following columns:</p> <ul style="list-style-type: none"> <li>• GETPAGES</li> <li>• SYS_START</li> <li>• SYS_END</li> <li>• TRANS_START</li> </ul>	
SYSSTATFEEDBACK catalog table		<ul style="list-style-type: none"> <li>• (FL 100) REASON</li> </ul>
SYSTRIGGERS catalog table	<p>(FL 100) The following columns:</p>	

Catalog table name	New column	Revised column
	<ul style="list-style-type: none"> <li>• ACTIVE</li> <li>• ALTEREDTS</li> <li>• ASUTIME</li> <li>• DEBUG_MODE</li> <li>• ORIGINAL_CONTOK</li> <li>• REGENERATETS</li> <li>• SQLPL</li> <li>• VERSION</li> <li>• WLM_ENVIRONMENT</li> <li>• WRAPPED</li> </ul>	
SYSUSERAUTH catalog table	<p>(FL 100) The following columns:</p> <ul style="list-style-type: none"> <li>• SYS_START</li> <li>• SYS_END</li> <li>• TRANS_START</li> </ul>	
SYSVARIABLES catalog table		<p>(FL 100) The following columns:</p> <ul style="list-style-type: none"> <li>• DATATYPEID</li> <li>• SOURCETYPEID</li> <li>• DEFAULT</li> <li>• LENGTH</li> <li>• CCSID</li> </ul>
SYSVIEWDEP catalog table	<p>(FL 100) The following columns:</p>	

Catalog table name	New column	Revised column
	<ul style="list-style-type: none"> <li>SYS_START</li> <li>SYS_END</li> <li>TRANS_START</li> </ul>	

## Catalog index changes in Db2 12

The following catalog indexes are new in Db2 12:

*Table 2. New catalog indexes in Db2 12*

Catalog table	Index
SYSCOLUMNS	(FL 100) DSNDCX06
SYSCONTROLS_DESC_H	(FL 100) DSNTRX04
SYSCONTROLS_RTXT_H	(FL 100) DSNTRX03
SYSDYNQRY	(FL 100) The following indexes: <ul style="list-style-type: none"> <li>DSNDQX01</li> <li>DSNDQX02</li> <li>DSNDQX11</li> </ul>
SYSDYNQRYDEP	(FL 100) The following indexes: <ul style="list-style-type: none"> <li>DSNDQX03</li> <li>DSNDQX04</li> <li>DSNDQX05</li> <li>DSNDQX12</li> <li></li> </ul>
SYSDYNQRY_EXPL	(FL 100) DSNDQX08
SYSDYNQRY_OPL	(FL 100) DSNDQX10

Catalog table	Index
SYSDYNQRY_SHTL	(FL 100) DSNDQX09
SYSDYNQRY_SPAL	(FL 100) DSNDQX07
SYSDYNQRY_TXTL	(FL 100) DSNDQX06
SYSLEVELSUPDATED	(FL 100) The following indexes: <ul style="list-style-type: none"> <li>• DSNLVX01</li> <li>• DSNLVX02</li> </ul>
SYSQUERY	(FL 100) DSNQYX04
SYSSESSION	(FL 100) DSNSNX02
SYSSESSION_DATA	(FL 100) DSNSNX03
SYSSESSION_EX	(FL 100) The following indexes: <ul style="list-style-type: none"> <li>• DSNSNX04</li> <li>• DSNSNX05</li> </ul>
SYSSESSION_GV	(FL 100) SYSSESSION_GV
SYSSESSION_STATUS	(FL 100) DSNSNX06
SYSVARIABLES	(FL 100) DSNVX01

## Global variable changes in Db2 12

Db2 12 introduces the following new built-in global variables:

- (FL 100) CATALOG\_LEVEL
- (FL 100) DEFAULT\_SQLLEVEL
- (FL 100) PRODUCTID\_EXT
- (FL 503) REPLICATION\_OVERRIDE
- (FL 100) TEMPORAL\_LOGICAL\_TRANSACTION\_TIME
- (FL 100) TEMPORAL\_LOGICAL\_TRANSACTIONS

For descriptions, see [Built-in global variables](#).



**Parent topic:**

→ [What's changed in Db2 12](#)