

DB2 - Columns of System Catalog Tables

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SYSCAT.TABLES & SYSSTAT.TABLES	
Column	Description
FPAGES	Number of pages being used by a table.
NPAGES	Number of pages containing rows.
OVERFLOW	Number of rows that overflow.
CARD	Number of rows in table (cardinality).

SYSCAT.COLUMNS & SYSSTAT.COLUMNS	
Column	Description
COLCARD	Column cardinality.
AVGCOLLEN	Average length of column.
HIGH2KEY	Second highest value in column.
LOW2KEY	Second lowest value in column.
NUMNULLS	The number of NULLs in a column.
SUB_COUNT	The average number of subelements.
SUB_DELIM_LENGTH	Average length of each delimiter separating each subelement.

SYSCAT.COLGROUPS & SYSSTAT.COLGROUPS	
Column	Description
COLGROUPCARD	Cardinality of the column group.

SYSCAT.COLGROUPDIST & SYSSTAT.COLGROUPDIST	
Column	Description
TYPE	F = frequency value Q = quantile value
ORDINAL	Ordinal number of the column in the group.
SEQNO	Sequence number n that represents the nth TYPE value.
COLVALUE	The data value as a character literal or a null value.

SYSCAT.COLGROUPDISTCOUNTS & SYSSTAT.COLGROUPDISTCOUNTS	
Column	Description
TYPE	F = frequency value Q = quantile value
SEQNO	Sequence number n that represents the nth TYPE value.
VALCOUNT	If TYPE = F, VALCOUNT is the number of occurrences of COLVALUES for the column group identified by this SEQNO. If TYPE = Q, VALCOUNT is the number of rows whose value is less than or equal to COLVALUES for the column group with this SEQNO.
DISTCOUNT	If TYPE = Q, this column contains the number of distinct values that are less than or equal to COLVALUES for the column group with this SEQNO. Null if unavailable.

SYSCAT.INDEXES & SYSSTAT.INDEXES	
Column	Description
NLEAF	Number of index leaf pages.
NLEVELS	Number of index levels.
CLUSTERRATIO	Degree of clustering of table data.
CLUSTERFACTOR	Finer degree of clustering.
DENSITY	Ratio (percentage) of SEQUENTIAL_PAGES to number of pages in the range of pages occupied by the index.
FIRSTKEYCARD	Number of distinct values in first column of the index.
FIRST2KEYCARD	Number of distinct values in first two columns of the index.
FIRST3KEYCARD	Number of distinct values in first three columns of the index.
FIRST4KEYCARD	Number of distinct values in first four columns of the index.
FULLKEYCARD	Number of distinct values in all columns of the index, excluding any key value in a type-2 index for which all RIDs are marked deleted.
PAGE_FETCH_PAIRS	Page fetch estimates for different buffer sizes.
SEQUENTIAL_PAGES	Number of leaf pages located on disk in index key order, with few or no large gaps between them.
AVERAGE_SEQUENCE_PAGES	Average number of index pages accessible in sequence. This is the number of index pages that the prefetchers can detect as being in sequence.
AVERAGE_RANDOM_PAGES	Average number of random index pages between sequential page accesses.
AVERAGE_SEQUENCE_GAP	Gap between sequences.
AVERAGE_SEQUENCE_FETCH_PAGES	Average number of table pages accessible in sequence. This is the number of table pages that the prefetchers can detect as being in sequence when they fetch table rows using the index.
AVERAGE_RANDOM_FETCH_PAGES	Average number of random table pages between sequential page accesses when fetching table rows using the index.
AVERAGE_SEQUENCE_FETCH_GAP	Gap between sequences when fetching table rows using the index.
NUMRIDS	Number of record identifiers (RIDs) in the index, including deleted RIDs in type-2 indexes.
NUMRIDS_DELETED	Total number of RIDs marked deleted in the index, except RIDs on leaf pages on which all record identifiers are marked deleted.
NUM_EMPTY_LEAFS	Total number of leaf pages on which all record identifiers are marked deleted.

