SQLShack

SQL code smells rules

Code

APX1086 – Check syntax errors
APX1095 – GOTO Usage
APX1112 – Semi-colons statement terminator
APX1113 – Uninitialized variable
APX1114 – Unused parameter
APX1123 – SET NOCOUNT OFF Usage
APX1131 – Un-closed cursor
APX1132 – Cursor not deallocated
APX1133 - RAISERROR with severity above 18 missing WITH LOG clause
APX1136 – Direct use of Date-Time functions
APX1139 – WAITFOR delay statement
APX1154 – Unpaired sp_xml_preparedocument
APX1162 – Cyclomatic complexity
APX1191 – Reserved word used as identifier
APX1206 – Invalid cursor operation
APX1207 - Missing SET NOCOUNT ON before Unatteended DML execution
APX1209 – INSERT EXEC statement
APX1212 – Printing from a trigger
APX1220 - No TRYCATCH
APX1233 – Undocumented stored procedure usage
APX1235 – Non-recommended settings
APX1241 – Cannot roll back THROW
APX1281 – Permission is granted in procedure body
APX1284 – Duplicate Cursor name
APX1285 – Cursor with no specified scope
APX1287 – Hardcoded database name
APX1288 – Statement outside of beginend block
APX1308 – Trigger should be enabled

Deprecated features

APX1094 - Non-ANSI outer join APX1119 - String = expression alias APX1125 - Constants in ORDER BY APX1128 - Table hint without WITH keyword APX1152 - Deprecated data types: TEXT, NTEXT and IMAGE APX1182 – Returning results from triggers APX1236 - Use of CREATE/DROP DEFAULT APX1237 - ANSI NULLS or QUOTED IDENTIFIER OFF APX1242 - Use of @, @@, or @@ as Transact-SQL identifiers APX1270 - SET CONCAT NULL YIELDS NULL OFF APX1271 - SET ANSI PADDING OFF APX1272 – Space separator for table hints APX1282 - SET REMOTE PROC TRANSACTIONS APX1283 - Numbered procedures APX1289 - Three-part and four-part column references APX1291 – Timestamp syntax APX1292 – Table option "text in row" APX1293 - CREATE/DROP RULE APX1294 – sp bindrule and sp unbindrule usage APX1295 – fn get sql function usage APX1296 – sp estimated rowsize reduction for vardecimal usage APX1297 – data types sp_addtype and sp_droptype usage APX1298 - GROUP BY ALL clause usage APX1299 - ROWGUIDCOL as a column name in DML statements APX1300 - IDENTITYCOL as a column name in DML statements APX1301 - DEFAULT keyword usage as default value APX1302 - Deprecated stored procedure

Design

APX1129 – Index type not specified explicitly

APX1165 – Unspecific DECIMAL or NUMERIC data types

APX1171 – (N)VARCHAR data type size not specified

APX1195 – Identity Column usage

APX1213 – Nullability not specified

APX1222 – Small (N)VARCHAR columns

APX1223 – Small (N)VARCHAR variables

APX1229 – Missing primary key

APX1303 - Disabled foreign key

APX1304 - ON DELETE CASCADE action Usage

APX1305 – Identity column should not be used in the Primary Key

APX1307 – Use Integer data types for primary key when possible

APX1309 - Enable cascading updates

Maintenance

APX1109 - QUOTED_IDENTIFIERS or ANSI_NULLS in a programmability object

APX1118 - Unassigned variable

APX1143 - Potential "unfinished" development

APX1146 - Unused variable

APX1190 - Output parameter never assigned

APX1203 - Duplicate identifier

APX1224 - Comment header

Naming convention

APX1088 - Parameters names not specified explicitly

APX1110 - Special chars in name

APX1155 - Naming convention prefix

Performance

APX1092 – HAVING with non-aggregate functions

APX1096 - Comparison with NULL

APX1120 - Temporary table

APX1130 - Not equal operator in WHERE

APX1135 - DML and DDL mixed

APX1145 - "%" first in LIKE

APX1173 - NOT IN in a WHERE clause

APX1186 - Cursor

APX1225 – Missing clustered index

APX1234 - WITH RECOMPILE

APX1273 – Stored procedure calls from a trigger

APX1274 - Transactions in a stored procedure

APX1277 - Do not use SET FORCEPLAN OFF

APX1278 – Incorrect usage of COUNT()

APX1280 – Cursor not declared as readonly

Query

APX1090 - Avoid Select(*)

APX1091 - TOP without ORDER BY

APX1093 - Non-ANSI join

APX1137 - Missing table aliases

APX1141 - Subquery join with TOP clause

APX1144 - Missing WHERE/JOIN clause

APX1170 - Column numbers in ORDER BY clause

APX1176 - Missing join predicate

APX1180 - SELECT INTO

APX1184 - ISNUMERIC function

APX1185 - CHARINDEX in Where clause

APX1193 – IN predicate

APX1197 - OR operator in WHERE clause

APX1210 - Missing columns in insert

APX1230 - SET ROWCOUNT

APX1243 - MERGE

APX1276 - Statement without TRY...CATCH

APX1286 - Database context change

Security

APX1102 - SUSER_SNAME() and SYSTEM_USER

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