



## 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 Unattended DML execution

APX1209 – INSERT EXEC statement

APX1212 – Printing from a trigger

APX1220 – No TRY...CATCH

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 begin..end 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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