

SAP ABAP Analyzer - 1.0 - Release Notes

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1.0.5-funcrel

Resolved Issues

Customer Ticket Id	Details
37221	Fixed false positives for the ABAP rule (8134): "Avoid unsorted data after SELECT queries".
37195	Fixed an issue where even though the rule (7538): "Avoid using SELECT ... INTO CORRESPONDING FIELDS OF" was manually re-enabled after an upgrade, the rule was still not triggered during an analysis.

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Resolved Issues

Customer Ticket Id	Details
36809	Fixes false positives violations of the rule "Avoid unsorted data after SELECT queries" (8134).

Other Updates

Details
Provided a fix for syntax errors generated with internal test application.
Provided a fix for a memory error due to a stack overflow in the treatment of SAP CDS Views.

Rules

Rule Id	New Rule	Details
7076	FALSE	The scope of the rule "Avoid Programs/Includes with too many Forms" (7076) has been modified to include only programs/includes containing forms.
7592	FALSE	The rule "Avoid using "ORDER BY" in SELECTS" (7592) has been modified and is no longer computed for SAP HANA projects.
7528	FALSE	The Sample and Remediation Sample documentation fields for the rule "Never use the ON CHANGE OF statement" (7528) conflict with the rule "Avoid using LOOP INTO, use LOOP ASSIGNING instead" (7894) and have therefore been updated..
8134	FALSE	Fixes false positives violations of the rule "Avoid unsorted data after SELECT queries" (8134).

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Other Updates

Details
Fixed an issue causing an error "UnicodeDecodeError: 'utf-8' codec can't decode byte 0xc2 in position 0: unexpected end of data" when loading CDS views containing unusual characters.

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Rules

Rule Id	New Rule	Details
8132	FALSE	The rule 8132 "Avoid using CHECK, EXIT, or RETURN in SELECT...ENDSELECT loops" was causing false positive violations when the statement was located inside an inner loop. This issue has now been fixed.
8114	FALSE	The rule 8144 has been renamed from "Avoid numerical data corruption during incompatible mutation (ABAP)" to "Avoid data corruption during incompatible mutation (ABAP)" and the rule's description, rationale, sample, remediation and remediation sample entries have been updated to provide better information.

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Rules

Rule Id	New Rule	Details
7544	FALSE	Correction of false positives for the rule "Avoid using SELECT ... ENDSELECT statement". Violations are no longer returned when the option "UP TO n ROWS" is present, or if the loop contains a "RETURN" statement.
7538	FALSE	The rule "Avoid using SELECT ... INTO CORRESPONDING FIELDS OF" has been deactivated and will no longer be computed.
7534	FALSE	Correction of false positives for the rule "Avoid READ TABLE without BINARY SEARCH". Violations are no longer returned when "WITH KEY" is present.
7520	FALSE	Correction of false positives for the rule "Avoid unchecked return code (SY-SUBRC) after OPEN SQL or READ statement". Violations are no longer returned when "INTO TABLE" is present.
7810	FALSE	Correction of false negative violations for the rule "Avoid Artifacts with a Complex SELECT Clause". Additional violations may now be found.
8134	FALSE	Correction of false negative violations for the rule "Avoid unsorted data after SELECT queries". Additional violations may now be found.
7820	FALSE	Correction of false negative violations for the rule "Never use SQL queries with a cartesian product". Additional violations may now be found.
7428	FALSE	Correction of false negative violations for the rule "Avoid SQL queries not using the first column of a composite index in the WHERE clause". Additional violations may now be found.

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Note

This is the first release of the SAP ABAP Analyzer as a standalone extension. The SAP ABAP Analyzer has been externalised as an extension to give the feature more flexibility to future development. The SAP ABAP Analyzer embedded in AIP Core will continue to exist and will be shipped "out of the box" with AIP Core, but no bugs will be fixed and no new features or functionality will be added. 5 new quality rules will be added in the first release of the "standalone" SAP ABAP Analyzer extension, but otherwise the extension will have the same features and functionality on release as the SAP ABAP Analyzer embedded in AIP Core. The new SAP ABAP Analyzer is compatible with AIP Core 8.3.43. All future development of the SAP ABAP Analyzer (bug fixes, new features, functionality etc.) will be completed in the SAP ABAP Analyzer extension only. The behaviour is as follows: Nothing is automatic - for both AIP Console and "legacy" CAST AIP deployments, the SAP ABAP Analyzer extension must be manually downloaded and installed in order to use it. If the extension is installed, CAST AIP Console/CAST Management Studio will automatically detect that it exists and will use the extension rather than the analyzer embedded in AIP Core. Once the extension has been installed and used to produce analysis results, it is not possible to reverse this choice by removing the extension and re-analyzing the source code again.

Resolved Issues

Customer Ticket Id	Details
34232	Fixed an issue where some files containing SQL scripts were taking a long time to analyze.

Rules

Rule Id	New Rule	Details
1104000	TRUE	Prefer using associations instead "left outer join" in CDS Views (S4/HANA)
1104002	TRUE	Prefer setting "many to one" cardinality for "left outer join" in CDS Views (S4/HANA)
1104004	TRUE	Prefer setting cardinality for CDS view associations (S4/HANA)
1104006	TRUE	CDS view association name should be defined according to the naming convention (S4/HANA)
1104008	TRUE	CDS View AccessControl.authorizationCheck should not be set to '#NOT_REQUIRED' (S4/HANA)