



MAIN FEATURE TAB

Analyze

A violation report across four categories — Integrity, Quality, Performance, and Readability — with counts and descriptions for each flagged issue.

Who

WHO IT IS FOR

Developers and DBAs preparing a schema for review, release, or hand-off who want a checklist of concrete problems to fix.

What

WHAT IT DOES

Analyze scores the schema against best-practice rules — missing primary keys, untrusted constraints, naming violations, missing indexes, undocumented columns — and lists every flagged item. Tick the issues you want to address and it generates the T-SQL to repair them.

When

WHEN TO USE IT

Run it before a release or a code review to catch integrity gaps, indexing problems, and naming inconsistencies before they become production bugs or slow queries.

Where

WHERE TO FIND IT

The Analyze tab is on the main top tab bar (a Pro feature). The rule categories run across the report; the Generate Fixes action sits at the top.

Why

WHY IT MATTERS

It replaces hours of manual schema review with a prioritised list and ready-to-run fixes, so quality problems are found and corrected early — cheaply — rather than late.

SCREENSHOT

McSaver Search — Analyze

Server: Caber.MyWire.org Database: AdventureWorks2019

Generate Fixes... Configure Rules ☐ Show ignored issues (0) ☐ Only with dependencies

#	Pri	Classification	Type	Fix	Problem	Deps	Schema	Table
1	17	Quality	T-PKMDI	☐	Table contain a primary key, but has another column(EmailAddressID) which is marked as an identity EmailAddress (Person)		Person	EmailAddress
2	17	Quality	T-PKMDI	☐	Table contain a primary key, but has another column(PurchaseOrderDetailID) which is marked as an identity PurchaseOrderDetail (Purchasing)		Purchasing	PurchaseOrderDe...
3	17	Quality	T-PKMDI	☐	Table contain a primary key, but has another column(SalesOrderDetailID) which is marked as an identity SalesOrderDetail (Sales)		Sales	SalesOrderDetail
4	1	Integrity	T-NkM	☐	Table does not contain a Natural key. AWBuildVersion (dbo)		dbo	AWBuildVersion
5	1	Integrity	T-NkM	☐	Table does not contain a Natural key. DatabaseLog (dbo)		dbo	DatabaseLog
6	1	Integrity	T-NkM	☐	Table does not contain a Natural key. ErrorLog (dbo)		dbo	ErrorLog
7	1	Integrity	T-NkM	☐	Table does not contain a Natural key. JobCandidate (HumanResources)		HumanResour...	JobCandidate
8	1	Integrity	T-NkM	☐	Table does not contain a Natural key. PhoneNumberType (Person)		Person	PhoneNumberType
9	1	Integrity	T-NkM	☐	Table does not contain a Natural key. Illustration (Production)		Production	Illustration
10	1	Integrity	T-NkM	☐	Table does not contain a Natural key. ProductPhoto (Production)		Production	ProductPhoto
11	1	Integrity	T-NkM	☐	Table does not contain a Natural key. ProductReview (Production)		Production	ProductReview
12	1	Integrity	T-NkM	☐	Table does not contain a Natural key. TransactionHistory (Production)		Production	TransactionHistory
13	1	Integrity	T-NkM	☐	Table does not contain a Natural key. WorkOrder (Production)		Production	WorkOrder
14	1	Integrity	T-NkM	☐	Table does not contain a Natural key. PurchaseOrderHeader (Purchasing)		Purchasing	PurchaseOrderHe...
15	1	Integrity	T-NkM	☐	Table does not contain a Natural key. SalesReason (Sales)		Sales	SalesReason
16	1	Integrity	T-NkM	☐	Table does not contain a Natural key. ShoppingCartItem (Sales)		Sales	ShoppingCartItem
17	25	Quality	T-PKNI	☐	Table's PK has one or more segments which are not marked as identity/unique identifier. Employee (HumanResources)		HumanResour...	Employee
18	25	Quality	T-PKNI	☐	Table's PK has one or more segments which are not marked as identity/unique identifier. EmployeeDepartmentHistory (HumanResources)		HumanResour...	EmployeeDepart...
19	25	Quality	T-PKNI	☐	Table's PK has one or more segments which are not marked as identity/unique identifier. EmployeePayHistory (HumanResources)		HumanResour...	EmployeePayHist...
20	25	Quality	T-PKNI	☐	Table's PK has one or more segments which are not marked as identity/unique identifier. BusinessEntityContact (Person)		Person	BusinessEntityCon...
21	25	Quality	T-PKNI	☐	Table's PK has one or more segments which are not marked as identity/unique identifier. CountryRegion (Person)		Person	CountryRegion
22	25	Quality	T-PKNI	☐	Table's PK has one or more segments which are not marked as identity/unique identifier. Password (Person)		Person	Password
23	25	Quality	T-PKNI	☐	Table's PK has one or more segments which are not marked as identity/unique identifier. PersonPhone (Person)		Person	PersonPhone
24	25	Quality	T-PKNI	☐	Table's PK has one or more segments which are not marked as identity/unique identifier. Culture (Production)		Production	Culture
25	25	Quality	T-PKNI	☐	Table's PK has one or more segments which are not marked as identity/unique identifier. Document (Production)		Production	Document
26	25	Quality	T-PKNI	☐	Table's PK has one or more segments which are not marked as identity/unique identifier. ProductCostHistory (Production)		Production	ProductCostHistory
27	25	Quality	T-PKNI	☐	Table's PK has one or more segments which are not marked as identity/unique identifier. ProductDocument (Production)		Production	ProductDocument

Total: 228 | Showing: 228 | Ignored: 0 | Fixable: 211 | With Deps: 42

Fix Legend: ☐ Not Fixable ☐ Requires Additional Info ☐ Has Dependencies ☐ Dependencies Detail

Analyze as shown on mcsavertechnologies.com



Tip of the Day 35 tips

Every Tip of the Day for this tab — open them in the app from the lightbulb icon.

- VALUE** Running analysis before a release catches integrity gaps, missing indexes, and naming violations that would otherwise surface as production bugs or slow queries — saving hours of firefighting.
- OVERVIEW** The Analyze tab lists every design violation found in your database, each tagged with a Classification of Integrity, Quality, Performance, or Readability.
- NAVIGATION** The Server and Database names at the top of the tab confirm exactly which connection the current analysis ran against.
- FEATURE** A coral "Custom Rule Processor(s) Loaded" label appears beside the database name when extra analysis rules have been plugged in.
- COLUMN** Each violation gets a Pri (priority) number — lower numbers are more critical and are color-coded so the worst issues stand out.
- COLUMN** The Classification column color-codes every issue as Integrity, Quality, Performance, or Readability so you can scan a category at a glance.
- COLUMN** The Type column shows a short code for the exact rule that flagged the row, useful when several issues share a Classification.

ACTION	Check the "Fix" checkbox next to violations you want to correct, then click "Generate Fixes..." to build the T-SQL repair script.
CONCEPT	Fix checkboxes are disabled for violations the analyzer cannot auto-repair — see the grey "Not Fixable" swatch in the Fix Legend.
CLARIFICATION	Some fixes prompt a popup for extra detail — naming a natural key, renaming an element, picking a cluster index, choosing a UDDT, or selecting a foreign-key target — before the checkbox sticks.
ACTION	Click "Configure Rules" to adjust analysis rules like primary key naming conventions and column-count thresholds.
WORKFLOW	When you click Apply in Configure Rules, the analysis automatically re-runs against the database with your updated settings.
FILTER	Use the "Show ignored issues" checkbox to reveal violations you previously marked as not applicable; its count is shown right in the label.
FILTER	Use "Only with dependencies" to focus on violations whose objects are referenced elsewhere and need manual attention after a fix.
NAVIGATION	The Deps column shows how many dependent objects a fix would affect — click the underlined number to view them in a SQL viewer.
SELECTION	The violations grid is multi-select — right-click a row for its menu; Toggle Fix and Toggle Ignore apply to every selected row, while View Deps and View Rows act on the first selected.
ACTION	Toggle Ignore on a violation to mark it as not applicable — ignored violations are saved to the database and persist across sessions.
NAVIGATION	Choose "View Rows" to open a tabbed Table Editor window with one tab per unique table among the selected violations, each tab pre-selected to that table.
FILTER	Click any column header to open the Filter/Sort popup; a ≡ glyph marks a filtered column and a ▲ or ▼ marks the sorted one.
COLUMN	Drag the thin splitter bars between headers to resize the #, Pri, Classification, Type, Fix, Deps, Schema, and Table columns to fit your data.
CONCEPT	Integrity issues flag missing primary keys, orphaned foreign keys, or referential integrity problems.
CONCEPT	Quality issues highlight concerns like excessive columns per table or missing identity columns.
CONCEPT	Performance issues surface redundant indexes, missing clustered indexes, or overly wide tables.
CONCEPT	Readability issues call out naming convention violations or unacceptable characters in element names.
VISUAL	The Fix Legend below the grid decodes the checkbox colors — grey Not Fixable, light-blue Requires Additional Info, dark-blue Has Dependencies, and yellow Dependencies Detail.

- VISUAL** The status bar reports Total, Showing, Ignored, Fixable, and With Deps counts so you always know the scope of what you're viewing.
- PERFORMANCE** A yellow "Searching for dependencies..." badge with a percentage shows while dependency counts load in the background after analysis.
- WORKFLOW** Generated fixes open in a SQL viewer with an Execute bar, so you can review the T-SQL and run it against the database from that window.
- ACTION** Click "Show Log" in the toolbar to open the Analyze Change Log, a running record of the T-SQL this tab has actually run against your database — every fix you executed and every ignore save.
- NAVIGATION** Right-click the Show Log button to copy the change-log file's full path to your clipboard.
- EXPORT** Click the camera icon to capture a screenshot of the Analyze tab; it saves to your export folder and opens that folder automatically.
- VISUAL** Selected violations show a dark-blue row highlight instead of a WinUI checkbox, which would clash with the per-row Fix checkbox; Ctrl or Shift click extends the selection.
- FEATURE** Click the tip icon beside the camera any time to reopen this Tip of the Day window.
- PERFORMANCE** Clicking a column header shows a brief spinner while the values are grouped in the background, so the Filter/Sort popup opens without stalling the grid.
- PERFORMANCE** When a column has thousands of distinct values, the Filter/Sort popup lists only the top 120 for the current sort and charts the top 60, while filtering and Select All still act on every value.