



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 | <input type="checkbox"/> | 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 | <input type="checkbox"/> | 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 | <input type="checkbox"/> | 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   | <input type="checkbox"/> | Table does not contain a Natural key. AWBuildVersion (dbo)                                                                                 |      | dbo            | AWBuildVersion       |
| 5  | 1   | Integrity      | T-NkM   | <input type="checkbox"/> | Table does not contain a Natural key. DatabaseLog (dbo)                                                                                    |      | dbo            | DatabaseLog          |
| 6  | 1   | Integrity      | T-NkM   | <input type="checkbox"/> | Table does not contain a Natural key. ErrorLog (dbo)                                                                                       |      | dbo            | ErrorLog             |
| 7  | 1   | Integrity      | T-NkM   | <input type="checkbox"/> | Table does not contain a Natural key. JobCandidate (HumanResources)                                                                        |      | HumanResour... | JobCandidate         |
| 8  | 1   | Integrity      | T-NkM   | <input type="checkbox"/> | Table does not contain a Natural key. PhoneNumberType (Person)                                                                             |      | Person         | PhoneNumberType      |
| 9  | 1   | Integrity      | T-NkM   | <input type="checkbox"/> | Table does not contain a Natural key. Illustration (Production)                                                                            |      | Production     | Illustration         |
| 10 | 1   | Integrity      | T-NkM   | <input type="checkbox"/> | Table does not contain a Natural key. ProductPhoto (Production)                                                                            |      | Production     | ProductPhoto         |
| 11 | 1   | Integrity      | T-NkM   | <input type="checkbox"/> | Table does not contain a Natural key. ProductReview (Production)                                                                           |      | Production     | ProductReview        |
| 12 | 1   | Integrity      | T-NkM   | <input type="checkbox"/> | Table does not contain a Natural key. TransactionHistory (Production)                                                                      |      | Production     | TransactionHistory   |
| 13 | 1   | Integrity      | T-NkM   | <input type="checkbox"/> | Table does not contain a Natural key. WorkOrder (Production)                                                                               |      | Production     | WorkOrder            |
| 14 | 1   | Integrity      | T-NkM   | <input type="checkbox"/> | Table does not contain a Natural key. PurchaseOrderHeader (Purchasing)                                                                     |      | Purchasing     | PurchaseOrderHe...   |
| 15 | 1   | Integrity      | T-NkM   | <input type="checkbox"/> | Table does not contain a Natural key. SalesReason (Sales)                                                                                  |      | Sales          | SalesReason          |
| 16 | 1   | Integrity      | T-NkM   | <input type="checkbox"/> | Table does not contain a Natural key. ShoppingCartItem (Sales)                                                                             |      | Sales          | ShoppingCartItem     |
| 17 | 25  | Quality        | T-PKNI  | <input type="checkbox"/> | 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  | <input type="checkbox"/> | 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  | <input type="checkbox"/> | 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  | <input type="checkbox"/> | 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  | <input type="checkbox"/> | 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  | <input type="checkbox"/> | 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  | <input type="checkbox"/> | 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  | <input type="checkbox"/> | 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  | <input type="checkbox"/> | 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  | <input type="checkbox"/> | 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  | <input type="checkbox"/> | 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](https://mcsavertechnologies.com)



Tip of the Day 30 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.

|                      |                                                                                                                                                                                                   |
|----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>ACTION</b>        | Check the "Fix" checkbox next to violations you want to correct, then click "Generate Fixes..." to build the T-SQL repair script.                                                                 |
| <b>CONCEPT</b>       | Fix checkboxes are disabled for violations the analyzer cannot auto-repair — see the grey "Not Fixable" swatch in the Fix Legend.                                                                 |
| <b>CLARIFICATION</b> | 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. |
| <b>ACTION</b>        | Click "Configure Rules" to adjust analysis rules like primary key naming conventions and column-count thresholds.                                                                                 |
| <b>WORKFLOW</b>      | When you click Apply in Configure Rules, the analysis automatically re-runs against the database with your updated settings.                                                                      |
| <b>FILTER</b>        | Use the "Show ignored issues" checkbox to reveal violations you previously marked as not applicable; its count is shown right in the label.                                                       |
| <b>FILTER</b>        | Use "Only with dependencies" to focus on violations whose objects are referenced elsewhere and need manual attention after a fix.                                                                 |
| <b>NAVIGATION</b>    | The Deps column shows how many dependent objects a fix would affect — click the underlined number to view them in a SQL viewer.                                                                   |
| <b>SELECTION</b>     | Select a row to open its action menu with Toggle Fix, Toggle Ignore, View Deps, and View Rows for that violation.                                                                                 |
| <b>ACTION</b>        | Toggle Ignore on a violation to mark it as not applicable — ignored violations are saved to the database and persist across sessions.                                                             |
| <b>NAVIGATION</b>    | Choose "View Rows" from a row's action menu to load the first 100 rows of that table in a separate detail grid window.                                                                            |
| <b>FILTER</b>        | Click any column header to open the Filter/Sort popup; a ≡ glyph marks a filtered column and a ▲ or ▼ marks the sorted one.                                                                       |
| <b>COLUMN</b>        | Drag the thin splitter bars between headers to resize the #, Pri, Classification, Type, Fix, Deps, Schema, and Table columns to fit your data.                                                    |
| <b>CONCEPT</b>       | Integrity issues flag missing primary keys, orphaned foreign keys, or referential integrity problems.                                                                                             |
| <b>CONCEPT</b>       | Quality issues highlight concerns like excessive columns per table or missing identity columns.                                                                                                   |
| <b>CONCEPT</b>       | Performance issues surface redundant indexes, missing clustered indexes, or overly wide tables.                                                                                                   |
| <b>CONCEPT</b>       | Readability issues call out naming convention violations or unacceptable characters in element names.                                                                                             |
| <b>VISUAL</b>        | 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.
- EXPORT** Click the camera icon to capture a screenshot of the Analyze tab; it saves to your export folder and opens that folder automatically.
- FEATURE** Click the tip icon beside the camera any time to reopen this Tip of the Day window.