

DataOps TestGen MCP

Why you should care: your AI assistant is smart but blind to your data quality. This fixes that. Ask in plain English; TestGen profiles the tables, writes the tests, runs them, and hands back the failing rows. **96 tools** plus MCP resources and prompts, in Claude, Claude Code, Cursor, Copilot, or any MCP client. Free, like TestGen itself.

CONNECT

Endpoint `https://<host>/mcp`

Auth 2.1 paste the URL, sign in via browser

Token header `Bearer <PAT>` (Enterprise)

Local `http://localhost:<port>/mcp` (plain http)

Verify "list the projects I have access to"



1 Discover your estate

Map projects, connections, table groups, and tables. Sample real rows. Find columns anywhere. Rebuild DDL from profiles.

- get_data_inventory
- list_projects
- get_project
- create_project
- update_project
- list_connections
- get_connection
- create_connection
- update_connection
- test_connection
- list_table_groups
- get_table_group
- create_table_group
- update_table_group
- preview_table_group
- list_tables
- get_table
- get_table_sample
- search_columns
- generate_create_table_script
- update_catalog_metadata

2 Profile your data

Run profiling, compare runs, trend metrics over time, and catch schema drift. Drill to per-column stats, frequent values, and patterns.

- run_profiling
- cancel_profiling_run
- list_profiling_runs
- get_profiling_run
- list_profiling_summaries
- compare_profiling_runs
- get_profiling_trends
- get_schema_history
- list_column_profiles
- get_column_profile_detail
- get_column_frequent_values
- get_column_patterns

3 Triage hygiene issues

Review what profiling flagged: bad blanks, type drift, PII, stale dates. Confirm, dismiss, or mute each finding.

- list_hygiene_issues
- search_hygiene_issues
- get_hygiene_issue
- update_hygiene_issue

5 Run tests, investigate failures

Execute suites. Summarize and trend failures. Compare runs for regressions. Pull the exact offending rows from the source database.

- run_tests
- cancel_test_run
- list_test_runs
- get_test_run
- compare_test_runs
- get_failure_summary
- get_failure_trend
- list_test_results
- search_test_results
- list_test_result_history
- update_test_result
- bulk_update_test_results
- get_source_data
- get_source_data_query

4 Generate & manage tests

Tests write themselves from the profile. Full CRUD, bulk toggles, portable export between suites, dry-run validation for custom SQL, and suites that push results into DataOps Observability.

- generate_tests
- list_tests
- get_test
- create_test
- update_test
- bulk_update_tests
- export_tests
- import_tests
- validate_custom_test
- list_test_types
- get_test_type
- list_test_suites
- get_test_suite
- create_test_suite
- update_test_suite
- create_test_note
- list_test_notes
- update_test_note
- delete_test_note

7 Score quality

Total, CDE, Profiling, and Testing scores. Slice by quality dimension, business domain, or data product. Manage scorecards.

- get_quality_scores
- list_scorecards
- get_scorecard
- create_scorecard
- update_scorecard
- delete_scorecard

6 Monitor tables

Turn on anomaly monitors per table group. Watch freshness, volume, and schema changes without writing a single test.

- enable_monitors
- disable_monitors
- get_monitor_settings
- update_monitor_settings
- get_monitor_summary
- list_monitors
- list_monitored_tables
- list_monitor_events
- list_monitor_schema_changes

8 Operate on a schedule

Recurring profiling and test runs. Email alerts on failures, new hygiene issues, or a score dropping through a threshold.

- list_schedules
- get_schedule
- create_profiling_schedule
- create_test_run_schedule
- update_schedule
- delete_schedule
- list_notifications
- get_notification
- create_notification
- update_notification
- delete_notification

PROMPTS TO TRY

- > What data do I have and how healthy is it?
- > Profile the sales table group and show new issues
- > Generate tests, run them, summarize failures by table
- > Show me the source rows behind that failure
- > Compare this week's test run to last week's
- > Email me when the total score drops below 75