SQLITE Tool Testing Worksheet

The SQLITE testing assertions list 8 test cases each listing 3 testing actions based on the PRAGMA journal mode settings of WAL, PERSIST and OFF. An SQLITE dataset is available from ?????? that contains database tables that can be used in the testing process. The test actions listed below highlight certain data points based on the known data within the dataset tables. A forensic tool should recover, and report results on the known data within the tables.

A tool tester should report on the discovery process with one of these responses.

* As Expected: The SQLite data recovery tool returned expected tool results.
* Not As Expected: The SQLite data recovery tool failed to return expected tool results.
* NA: Not Available. The tool does not provide support

Check the test action table cell that matches your findings. You should also note any anomalies that you observe during the testing process. If you would like to share your testing results use the CFTT SQLITE testing module to create a testing report for review by the CFTT team.

**Tool and Environment Data.**

|  |  |
| --- | --- |
| Tool Name |  |
| Software Version |  |
| Supplier |  |
| Address |  |
| Contact Number |  |
| Web Site |  |
| Testing Operating System |  |
| OS Version |  |
| Date of test run |  |

Test Case SFT-01 Header Parsing.

|  |  |  |  |
| --- | --- | --- | --- |
| **Test Action SFT-01-WAL** | **As Expected** | **Not As Expected** | **NA** |
| Page Size 4096 |  |  |  |
| Journal Mode WAL |  |  |  |
| UTF8 |  |  |  |
| UTF16BE |  |  |  |
| UTF16LE |  |  |  |
| Number of Pages 100 |  |  |  |
| **NOTES** | | | | |

|  |  |  |  |
| --- | --- | --- | --- |
| **Test Action SFT-01-PERSISTL** | **As Expected** | **Not As Expected** | **NA** |
| Page Size 1024 |  |  |  |
| Journal Mode PERSISTL |  |  |  |
| UTF8 |  |  |  |
| UTF16BE |  |  |  |
| UTF16LE |  |  |  |
| Number of Pages 100 |  |  |  |
| **NOTES** | | | | |

|  |  |  |  |
| --- | --- | --- | --- |
| **Test Action SFT-01-OFF** | **As Expected** | **Not As Expected** | **NA** |
| Page Size 8192 |  |  |  |
| Journal Mode OFFL |  |  |  |
| UTF8 |  |  |  |
| UTF16BE |  |  |  |
| UTF16LE |  |  |  |
| Number of Pages 100 |  |  |  |
| **NOTES** | | | | |

Test Case SFT-02 Schema Reporting.

|  |  |  |  |
| --- | --- | --- | --- |
| **Test Action SFT-02-WAL** | **As Expected** | **Not As Expected** | **NA** |
| Table Name |  |  |  |
| Column Name |  |  |  |
| Number of Rows |  |  |  |
| **NOTES** | | | | |

|  |  |  |  |
| --- | --- | --- | --- |
| **Test Action SFT-02-PERSIST** | **As Expected** | **Not As Expected** | **NA** |
| Table Name |  |  |  |
| Column Name |  |  |  |
| Number of Rows |  |  |  |
| **NOTES** | | | | |

|  |  |  |  |
| --- | --- | --- | --- |
| **Test Action SFT-02-OFF** | **As Expected** | **Not As Expected** | **NA** |
| Table Name |  |  |  |
| Column Name |  |  |  |
| Number of Rows |  |  |  |
| **NOTES** | | | | |

Test Case SFT-03 Recoverable Rows.

|  |  |  |  |
| --- | --- | --- | --- |
| **Test Action SFT-03-WAL** | **As Expected** | **Not As Expected** | **NA** |
| Delete |  |  |  |
| Modify |  |  |  |
| **NOTES** | | | | |

|  |  |  |  |
| --- | --- | --- | --- |
| **Test Action SFT-03-PERSIST** | **As Expected** | **Not As Expected** | **NA** |
| Delete |  |  |  |
| Modify |  |  |  |
| **NOTES** | | | | |

|  |  |  |  |
| --- | --- | --- | --- |
| **Test Action SFT-03-OFF** | **As Expected** | **Not As Expected** | **NA** |
| Delete |  |  |  |
| Modify |  |  |  |
| **NOTES** | | | | |

Test Case SFT-04 Data Element Metadata.

|  |  |  |  |
| --- | --- | --- | --- |
| **Test Action SFT-04-WAL** | **As Expected** | **Not As Expected** | **NA** |
| Delete |  |  |  |
| Modify |  |  |  |
| **NOTES** | | | | |

|  |  |  |  |
| --- | --- | --- | --- |
| **Test Action SFT-04-PERSIST** | **As Expected** | **Not As Expected** | **NA** |
| Delete |  |  |  |
| Modify |  |  |  |
| **NOTES** | | | | |

|  |  |  |  |
| --- | --- | --- | --- |
| **Test Action SFT-04-OFF** | **As Expected** | **Not As Expected** | **NA** |
| Delete |  |  |  |
| Modify |  |  |  |
| **NOTES** | | | | |

Test Case SFT-05 Schema Data Reporting.

|  |  |  |  |
| --- | --- | --- | --- |
| **Test Action SFT-05-WAL** | **As Expected** | **Not As Expected** | **NA** |
| Primary Key |  |  |  |
| Int |  |  |  |
| Float |  |  |  |
| Text |  |  |  |
| BLOB |  |  |  |
| Boolean |  |  |  |
| **NOTES** | | | | |

|  |  |  |  |
| --- | --- | --- | --- |
| **Test Action SFT-05-PERSIST** | **As Expected** | **Not As Expected** | **NA** |
| Primary Key |  |  |  |
| Int |  |  |  |
| Float |  |  |  |
| Text |  |  |  |
| BLOB |  |  |  |
| Boolean |  |  |  |
| **NOTES** | | | | |

|  |  |  |  |
| --- | --- | --- | --- |
| **Test Action SFT-05-OFF** | **As Expected** | **Not As Expected** | **NA** |
| Primary Key |  |  |  |
| Int |  |  |  |
| Float |  |  |  |
| Text |  |  |  |
| BLOB |  |  |  |
| Boolean |  |  |  |
| **NOTES** | | | | |

Test Case SFT-06 Recovered Row Metadata

|  |  |  |  |
| --- | --- | --- | --- |
| **Test Action SFT-06-WAL** | **As Expected** | **Not As Expected** | **NA** |
| Source File |  |  |  |
| Status Deleted /Modified |  |  |  |
| **NOTES** | | | | |

|  |  |  |  |
| --- | --- | --- | --- |
| **Test Action SFT-06-PERSIST** | **As Expected** | **Not As Expected** | **NA** |
| Source File |  |  |  |
| Status Deleted /Modified |  |  |  |
| **NOTES** | | | | |

|  |  |  |  |
| --- | --- | --- | --- |
| **Test Action SFT-06-OFFL** | **As Expected** | **Not As Expected** | **NA** |
| Source File |  |  |  |
| Status Deleted /Modified |  |  |  |
| **NOTES** | | | | |

Test Case SFT-07 Recovered Data Information

|  |  |  |  |
| --- | --- | --- | --- |
| **Test Action SFT-07-WAL** | **As Expected** | **Not As Expected** | **NA** |
| File Offset |  |  |  |
| Recovered Row Table Name |  |  |  |
| **NOTES** | | | | |

|  |  |  |  |
| --- | --- | --- | --- |
| **Test Action SFT-07-PERSIST** | **As Expected** | **Not As Expected** | **NA** |
| File Offset |  |  |  |
| Recovered Row Table Name |  |  |  |
| **NOTES** | | | | |

|  |  |  |  |
| --- | --- | --- | --- |
| **Test Action SFT-07-OFF** | **As Expected** | **Not As Expected** | **NA** |
| File Offset |  |  |  |
| Recovered Row Table Name |  |  |  |
| **NOTES** | | | | |

Test Case SFT-08 Journal sequencing / WAL timelining

|  |  |  |  |
| --- | --- | --- | --- |
| **Test Action SFT-08-WAL** | **As Expected** | **Not As Expected** | **NA** |
| Journal Sequencing |  |  |  |
| WAL Timelining |  |  |  |
| **NOTES** | | | | |

|  |  |  |  |
| --- | --- | --- | --- |
| **Test Action SFT-08-PERSIST** | **As Expected** | **Not As Expected** | **NA** |
| Journal Sequencing |  |  |  |
| WAL Timelining |  |  |  |
| **NOTES** | | | | |

|  |  |  |  |
| --- | --- | --- | --- |
| **Test Action SFT-08-OFF** | **As Expected** | **Not As Expected** | **NA** |
| Journal Sequencing |  |  |  |
| WAL Timelining |  |  |  |
| **NOTES** | | | | |