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			