1. 2021-07-30. Used DB Browser to create a new, empty sqlite database named 'TestDB.sqlite'

2. Automatically connected to the newly created database

3. Ran the following SQL commands to create four new tables having TEXT primary keys. I saw some differences in behavior in DB Browser which is probably related to the indexing methods. The 'without rowid' table is displayed as sorted by primary key (monthname). The version 'with rowid' is displayed in the original order that the table was populated (monthseq ASC).

ATTACH DATABASE "D:\Geodata\2021\SQLite\_Tests\California\california\_spatialite06.sqlite" AS MD;

-- These tables use monthname (TEXT) as the primary key

--

CREATE TABLE month\_worowid(

monthseq INTEGER NOT NULL,

monthname CHARACTER(9) NOT NULL,

PRIMARY KEY (monthname)

) WITHOUT ROWID ;

INSERT INTO main.month\_worowid(monthseq, monthname)

SELECT X.monthseq, X.monthname

FROM MD.month AS X

;

CREATE TABLE month\_worowid(

monthseq INTEGER NOT NULL,

monthname CHARACTER(9) NOT NULL,

PRIMARY KEY (monthname)

) WITHOUT ROWID ;

INSERT INTO main.month\_worowid(monthseq, monthname)

SELECT X.monthseq, X.monthname

FROM MD.month AS X

;

-- These tables use monthseq (INTEGER) as the primary key

--

CREATE TABLE month2\_worowid(

monthseq INTEGER NOT NULL,

monthname CHARACTER(9) NOT NULL,

PRIMARY KEY (monthseq)

) WITHOUT ROWID ;

INSERT INTO main.month2\_worowid(monthseq, monthname)

SELECT X.monthseq, X.monthname

FROM MD.month AS X

;

CREATE TABLE month2\_worowid(

monthseq INTEGER NOT NULL,

monthname CHARACTER(9) NOT NULL,

PRIMARY KEY (monthseq)

) WITHOUT ROWID ;

INSERT INTO main.month2\_worowid(monthseq, monthname)

SELECT X.monthseq, X.monthname

FROM MD.month AS X

;

DETACH DATABASE MD;

4. Wrote the changes to the database

5. Ran VACUUM command

6. Ran the following query to test the existence of ROWID for all tables

SELECT name, NOT EXISTS(SELECT 1 FROM pragma\_index\_info(x.name)) AS 'hasRowid'

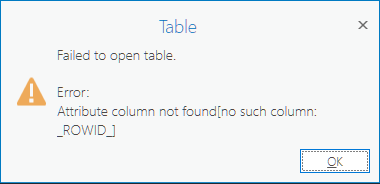
FROM sqlite\_schema AS x

WHERE type='table'

ORDER BY name;

|  |  |
| --- | --- |
| **name** | **hasRowid** |
| month2\_default | 1 |
| month2\_worowid | 0 |
| month\_default | 1 |
| month\_worowid | 0 |

If I try to open either of the ‘worowid’ tables in ArcGIS Pro I immediately receive the following error:



If I try to open either of the tables that have ROWID, they work fine as shown below.

Month\_default table (has rowid) month2\_default table (has rowid):

