SQLite Recovery

Deok9

DDeok9@gmail.com



Contents of Table



1. Introduction

2. Case

3. How

4. Conclusion

Introduction

Introduction



SQLite Recovery

- SQLite □□□□□□
 - 00000000000000000
 - ✓ 000 0000 0000 0000, **Strings** 00 0000 00 0000 0000
 - \checkmark 000 0000 000 00 0 0000 0000 0000

- SQLite Viewer | | | | | | | | | | | |

Case



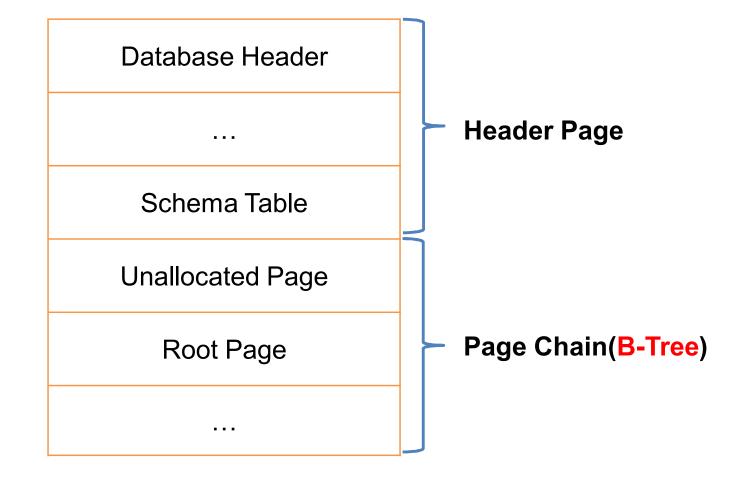
Target

Арр	Data Type	Location(WinXP)	
Safari	Cache	%USERPROFILE%\Local Settings\Application Data\Apple Culmputer\Safari\Cache.db	
I-Phone	Mobile Comm	MUSE RPROFILE %\Local Settings\Application If delete(group_msg): Mobile Sync Backup group_msg = unallocated space	
Firefox	History Cookie	%USERPROFILE%\Local Settings\Application Data\Mozilla\Firefox\Profiles\ <random>\ places.SQLite or cookies SQLite</random>	
	Cache	Zero Fill %USERPROFILE%\Local Settings\Application Data\Google\Chrome\UserData\Default\	
Chrome	History Cookie	Cache or History or Cookies	



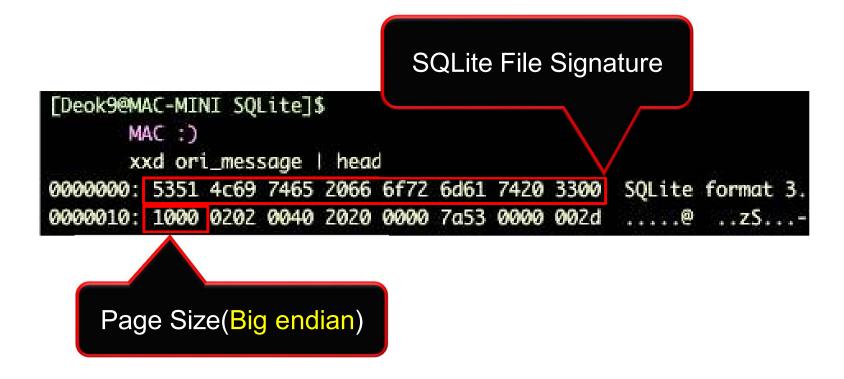
SQLite □□(□□)

Header Page + Page Chain



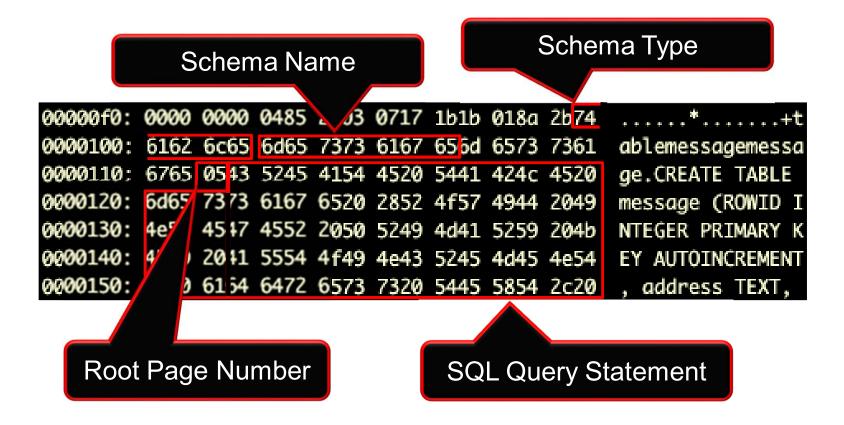


Database Header



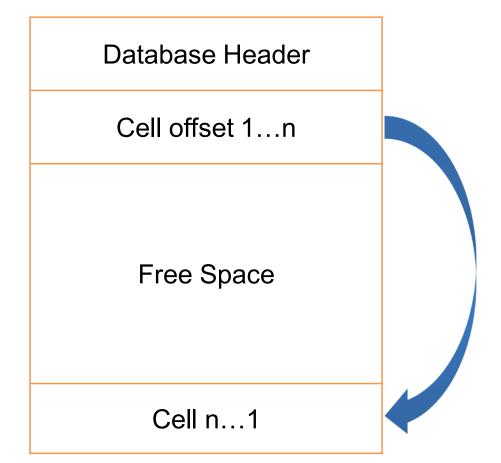


Database Schema Table





Page Header + Cell offset + Free Space + Cell





__ __ Leaf ___

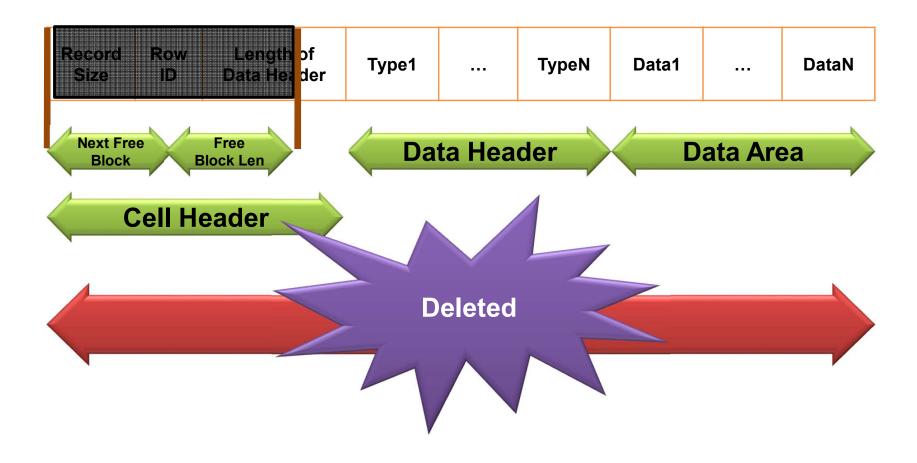
■ Leaf □□□□□□

Offset	Contents	
0	Page Flag : 0x0D	
1-2	First Unallocated Block Offset	
3-4	Cell Count	
5-6	First Cell Offset	
7	Over 3Byte Unallocated Block Count	

• 000 0 000 00 000 00

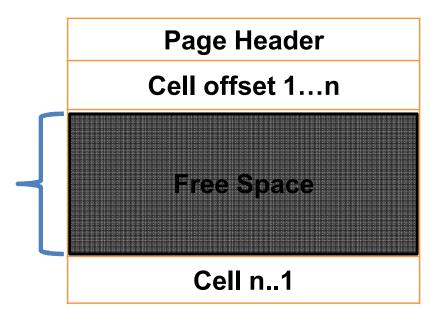


- □ Leaf □ □ □ □ Cell □ □ □ □?
- Leaf Cell □□(□□)





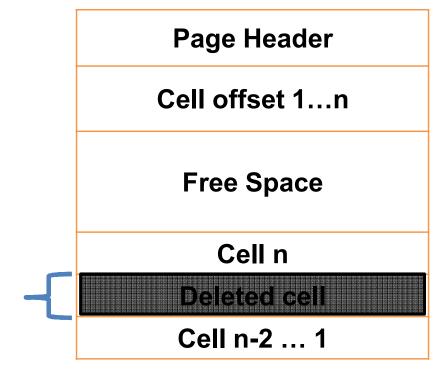
- □□ Free Space □□ □□
- 1. Leaf | | | | | | | | | | |
- 2. Free Space \square \square \square .
 - 1. 5~6.
 - 2. 0 000 000 0x00000 0 000 000





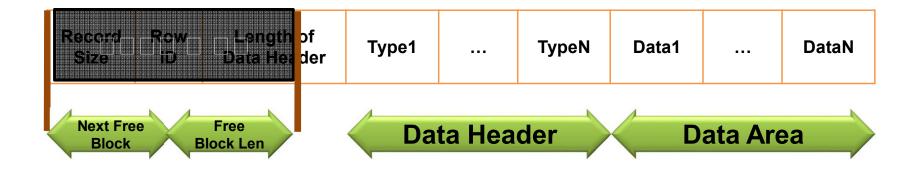
- □□□□ Free Block □□
- 1. **Leaf** □□□□□□□.
- 2.

 | Green Block | Green Blo
 - 1. 000 000 1~20 00 00 0 00 00 00
 - 2. DDD Leaf Cell DDD DDDDD





- - Legnth of Record
 - Row ID
 - Length of Data Header □□□





- 00 000 000 000 000
 - 00000000000000000

Value	Data Type	Data Size
0	NULL	0
N (N=1-4)	Signed Integer	N
5		6
6	Signed Integer	8
7	IEEE float	8
8-11	Reserved	
N>12 (N:even)	BLOB	(N-12)/2
N>13 (N:odd)	TEXT	(N-13)/2

•

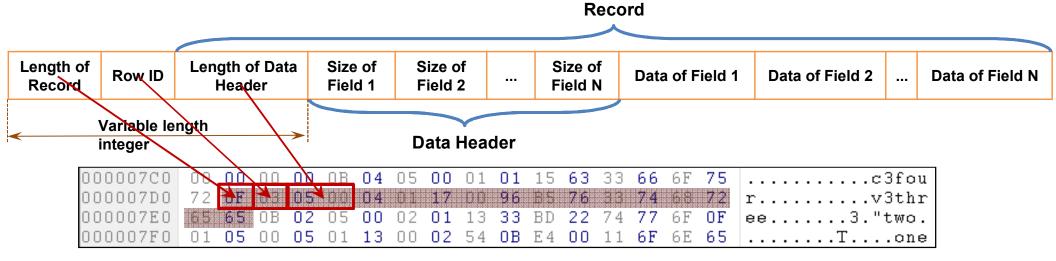


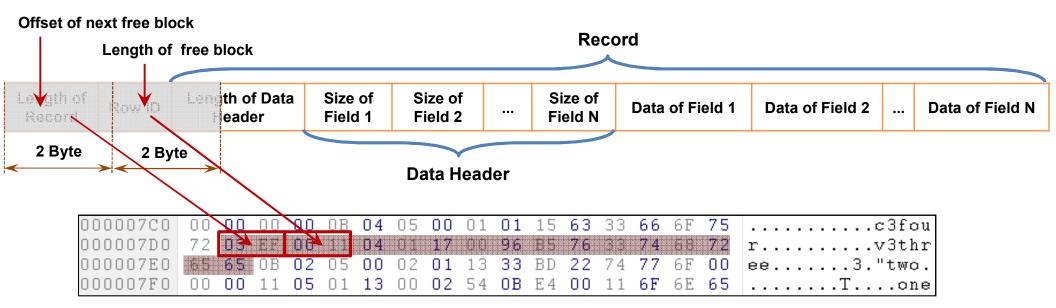
- Length of Record □?
 - 000 000 000 000 00 0000, 0000 0

- Row ID :









Conclusion



Recover Iphone Message

