title: Accessing messages in the database

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Accessing messages in the database

Decrypting databases

In order to view database data you need to decrypt it first. Install sqlcipher using your favorite package manager and run the following commands in the directory with databases: ```bash sqlcipher files_chat.db pragma key="youDecryptionPassphrase";

Ensure it works fine

select * from users; ```

If you see Parse error: no such table: users, make sure you entered correct passphrase, and you have changed passphrase from random in Android app (if you got this database from Android device, of course).

SQL queries

You can run queries against direct_messages, group_messages and all_messages (or their simpler alternatives direct_messages_plain, group_messages_plain and all_messages_plain), for example:

- ```sql -- you can put these or your preferred settings into \sim /.sqliterc -- to persist across sqlite3 client sessions .mode column .headers on .nullvalue NULL
- -- simple views into direct, group and allmessages -- with user's messages deduplicated for group and allmessages; -- only 'x.msg.new' ("new message") chat events filters out service events; -- msgsent is 0 for received, 1 for sent select * from directmessagesplain; select * from groupmessagesplain; select * from allmessages_plain;
- -- query other details of your chat history with regular SQL, for example: -- files you offered for sending select * from directmessages where msgsent = 1 and chatmsgevent = 'x.file'; -- everything catherine sent related to cats select * from directmessages where msgsent = 0 and contact = 'catherine'

and msgbody like '%cats%'; -- all correspondence with alice in #team select
* from groupmessages where group name = 'team' and contact = 'alice';

-- aggregate your chat data select contactorgroup, nummessages from (select contact as contactorgroup, count(1) as nummessages from directmessagesplain group by contact union select groupname as contactorgroup, count(1) as nummessages from groupmessagesplain group by groupname) order by nummessages desc; ```