

Introduction to Java for C++ Programmers

SQLite Installation for Windows and Introduction

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Installation

- www.sqlite.org



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SQLite is a [self-contained](#), [high-reliability](#), [embedded](#), [full-featured](#), [public-domain](#), SQL database engine. SQLite is the [most used](#) database engine in the world. [More Info](#)

Latest Release: [Version 3.23.0](#) (2018-04-02). [Download](#) [Prior Releases](#)

Sponsors

Ongoing development and support of SQLite is made possible in part by [SQLite Consortium](#) members, including:



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Precompiled Binaries for Windows

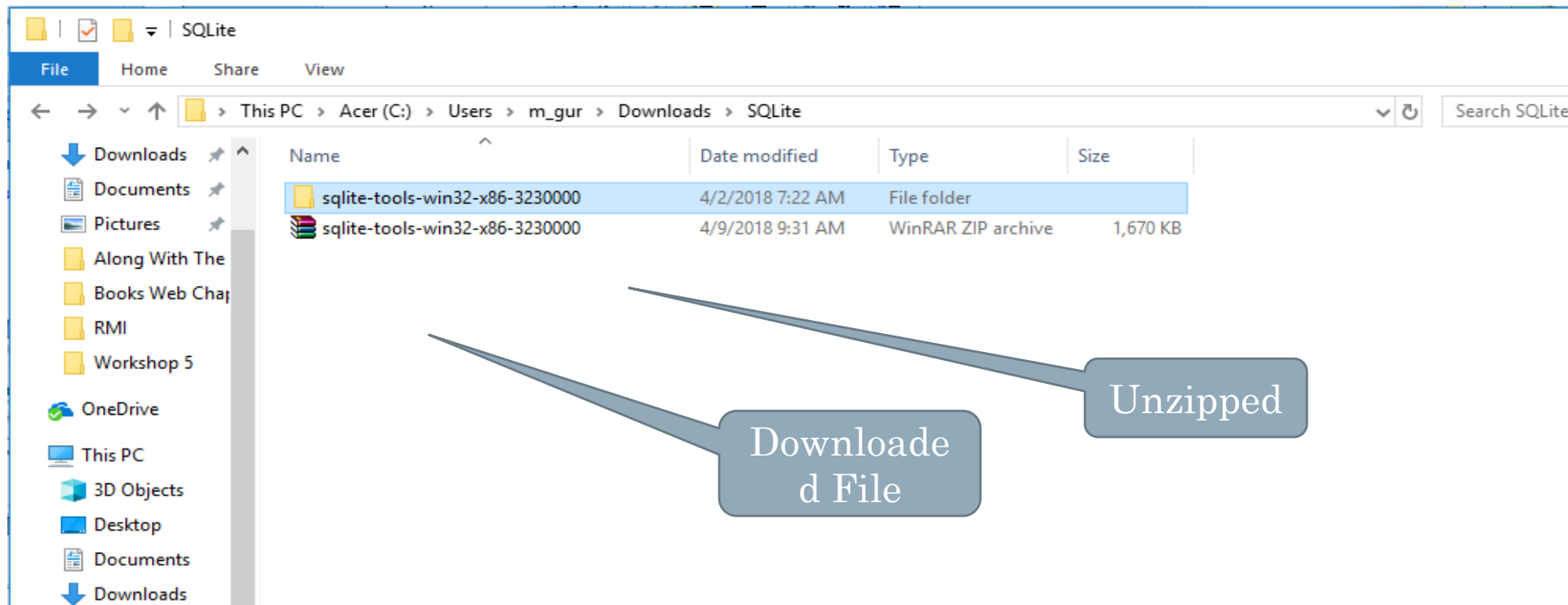
[sqlite-dll-win32-x86-3230000.zip](#) 32-bit DLL (x86) for SQLite version 3.23.0.
(sha1: 0a33fdef5084db25e24451dbde80238b487fbe78)
(440.48 KiB)

[sqlite-dll-win64-x64-3230000.zip](#) 64-bit DLL (x64) for SQLite version 3.23.0.
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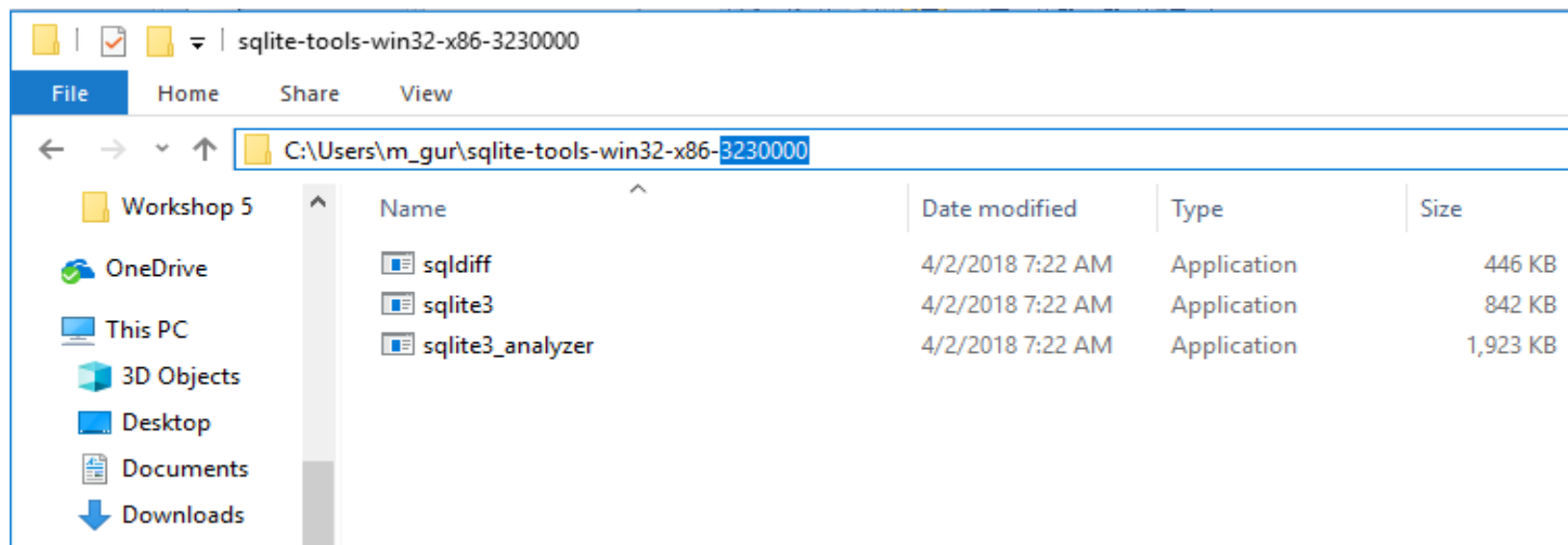
[sqlite-tools-win32-x86-3230000.zip](#) A bundle of command-line tools for managing SQLite database files, including the [command-line shell](#) program, the [sqldiff.exe](#) program, and the [sqlite3_analyzer.exe](#) program.
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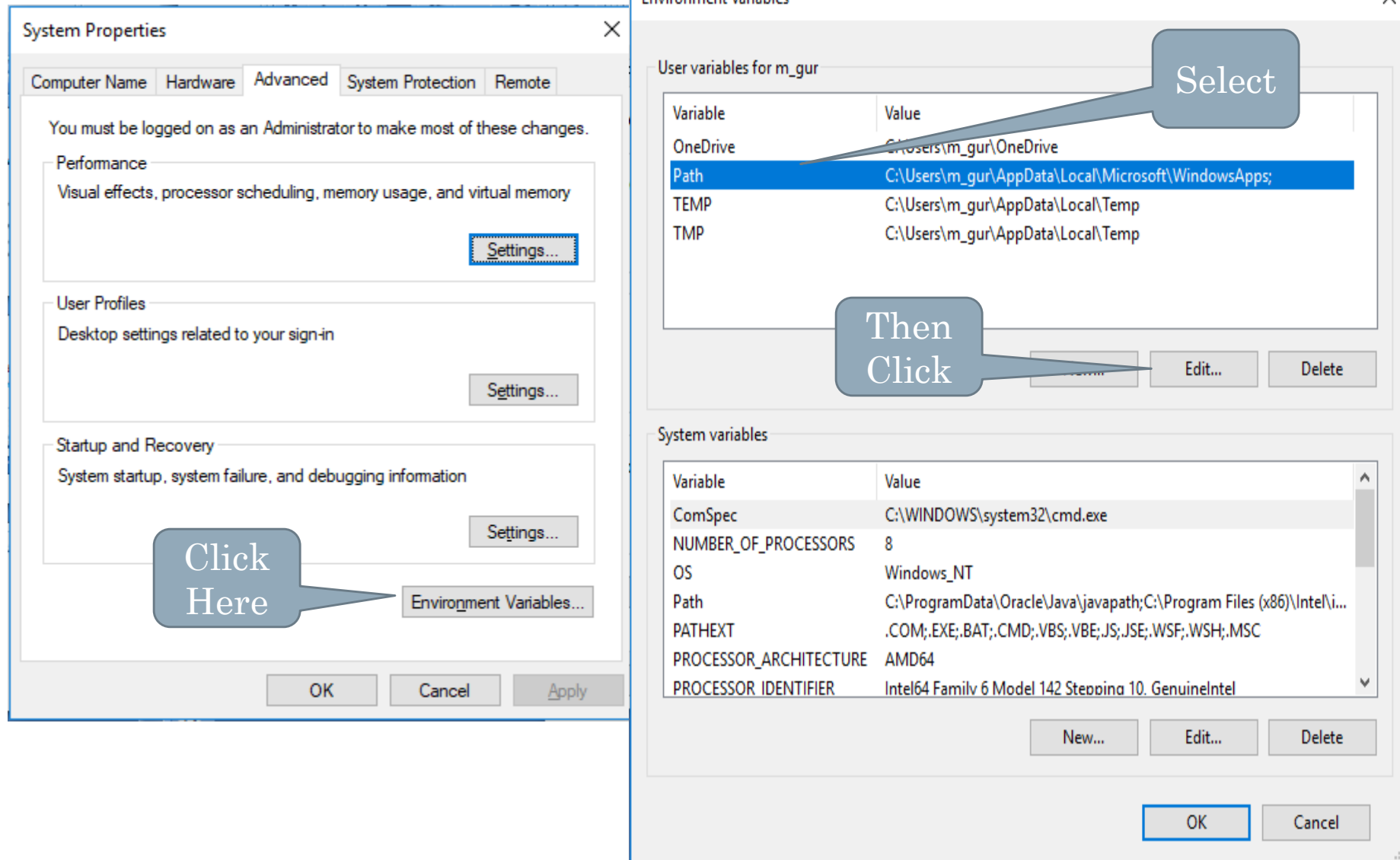
- Unzip the file you just downloaded.
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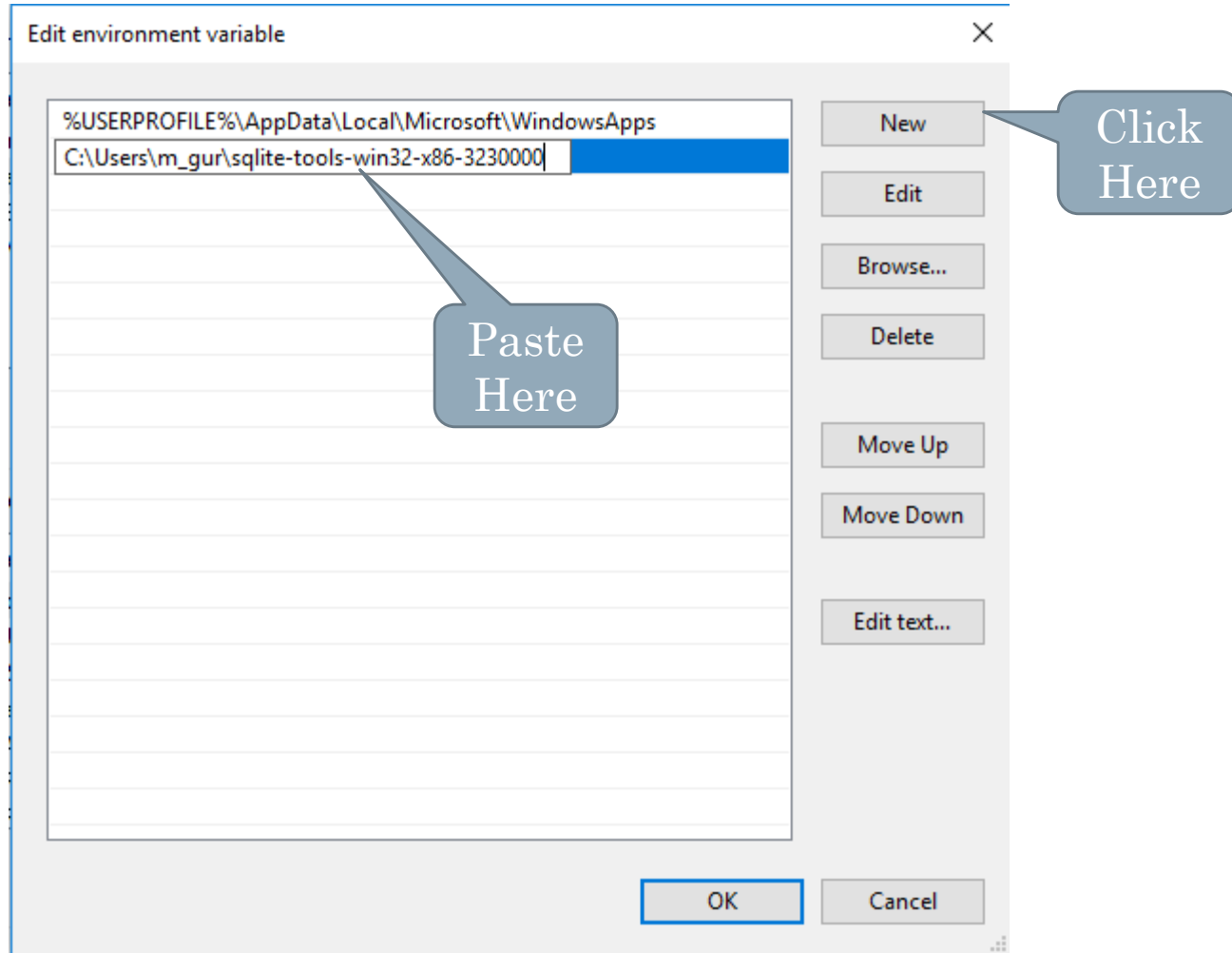


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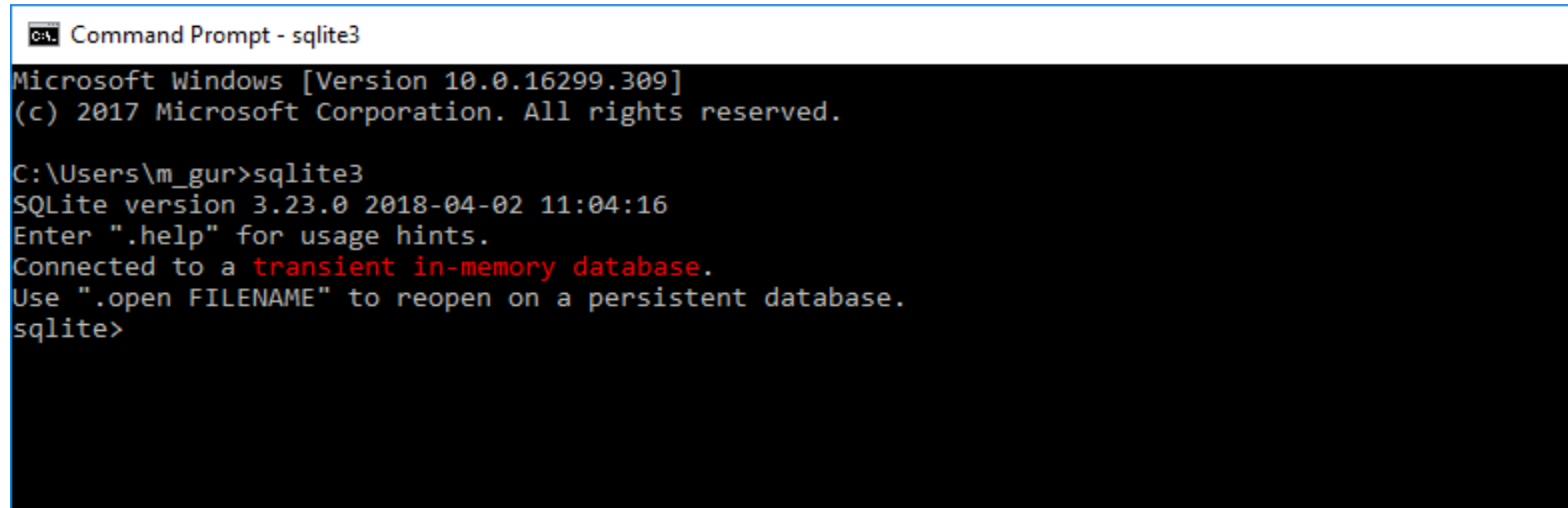
- Open Environment Variable on windows





Installation check

- Open command prompt.



```
Command Prompt - sqlite3
Microsoft Windows [Version 10.0.16299.309]
(c) 2017 Microsoft Corporation. All rights reserved.

C:\Users\m_gur>sqlite3
SQLite version 3.23.0 2018-04-02 11:04:16
Enter ".help" for usage hints.
Connected to a transient in-memory database.
Use ".open FILENAME" to reopen on a persistent database.
sqlite>
```

- Write **.quit** command to exit the SQLite.

SQLite 3

- For more commands on SQLite3 you can use the official link for SQLite,
<https://www.sqlite.org/cli.html>

Test Database

 Command Prompt - sqlite3 test.db

```
C:\Users\m_gur>sqlite3 test.db
SQLite version 3.23.0 2018-04-02 11:04:16
Enter ".help" for usage hints.
sqlite>
```

Turn on the headers of the tables

```
sqlite> .headers on
```

Create table Contacts

```
sqlite> create table contacts (name text, phone integer, email text);
```

Insert data into table Contacts

```
sqlite> insert into contacts (name, phone, email) values('Ali', 123456, 'ali@myemail.com');
```

Select command on table

```
sqlite> SELECT * FROM contacts;  
name|phone|email  
Ali|123456|ali@myemail.com
```

Backup command

```
sqlite> .backup testbackup
```

UPDATE command

```
sqlite> update contacts set email="fake@myemail.com";
```

```
sqlite> select * from contacts  
...> ;  
name|phone|email  
Ali|123456|fake@myemail.com  
Mahboob|123456789|fake@myemail.com  
John|789456|fake@myemail.com
```




Restore command

```
sqlite> .restore testbackup  
sqlite> select * from contacts  
...> ;  
name|phone|email  
Ali|123456|ali@myemail.com  
Mahboob|123456789|mahboob@myemail.com  
John|789456|
```



WHERE clause update

```
sqlite> update contacts set email="newemail@myemail.com" Where name="Ali"  
...> ;  
sqlite> select * from contacts  
...> ;  
name|phone|email  
Ali|123456|newemail@myemail.com  
Mahboob|123456789|mahboob@myemail.com  
John|789456|
```



Delete and WHERE clause commands

```
sqlite> delete from contacts where phone=789456  
...> ;  
sqlite> select * from contacts  
...> ;  
name|phone|email  
Ali|123456|newemail@myemail.com  
Mahboob|123456789|mahboob@myemail.com
```

Checking tables in the database

```
sqlite> .tables  
contacts
```

Checking the Schema command

```
sqlite> .schema  
CREATE TABLE contacts (name text, phone integer, email text);
```

```
sqlite> .dump  
PRAGMA foreign_keys=OFF;  
BEGIN TRANSACTION;  
CREATE TABLE contacts (name text, phone integer, email text);  
INSERT INTO contacts VALUES('Ali','123456','newemail@myemail.com');  
INSERT INTO contacts VALUES('Mahboob','123456789','mahboob@myemail.com');  
COMMIT;
```