Unit-2: Database backup and CSV handling:

2.1 SQLite dump :

- 2.1.1 Dump specific table into file, Dump only table structure
- 2.1.2 Dump entire database into file
- 2.1.3 Dump data of one or more tables into a file

2.2 CSV files handling:

- 2.2.1 Import a CSV file into a table
- 2.2.2 Export a CSV file from table

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Step : 1

[1]--conneting db

sqlite3 neha.db

[2]--Getting structure of entire database

.dump

[3]--getting structure of particular table (employee is table in below case)

.Schema employee :

output:

E.G. : CREATE TABLE emp(eid int,ename text);

```
sqlite> .schema emp
CREATE TABLE emp(eid int,ename text);
```

2.1.2 : --Dump enitre database in a file (With tbl structure)

.output EntireDb.txt

.dump

.quit

```
sqlite> .output entiredb.txt
sqlite> .dump
```

2.1.1-a : --dump specific table in a file (With structure)

.output employee.txt

.dump employee

.quit

```
sqlite> .output employee.txt
sqlite> .dump emp
```

--dump multiple table in a file (With structure)

.output Multitbls.txt

.dump employee

.dump nb_employee

```
sqlite> create table dept(did int,dname text)
   ...> ;
sqlite> insert into dept(did,dname) values (aa,'xyz');
Error: no such column: aa
sqlite> insert into dept(did,dname) values (101,'xyz');
sqlite> insert into dept(did,dname) values (102,'abc');
sqlite> select * from dept;
sqlite> .output multi.txt
sqlite> .dump emp
sqlite> .dump dept
sqlite> _
```

2.1.1-b --dump specific file structure in a file / table structure

.output employeeschema.txt

.schema employee
.schema nb_employee
.quit

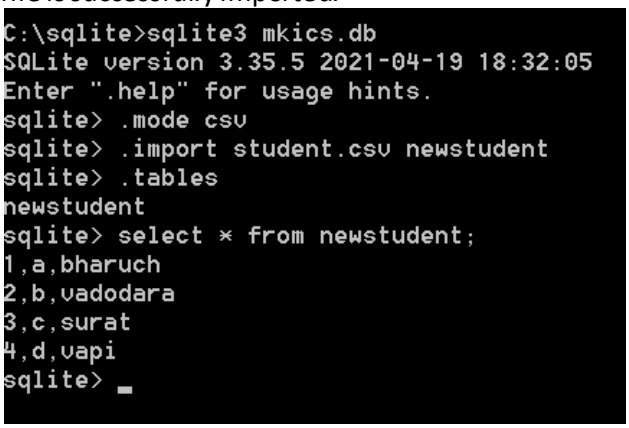
2.1.3 --dump only data of particular table in a file
.output tabledata.txt
select * from employee;
.quit

2.2.1 Import a CSV file into a table
create csv file
open ms excel
create a table
save as csv file

now import this csv file in to sqlite
1) for that set mode command is used
.mode — Set the output mode
Common Usage -> .mode (column[s]|csv|html|insert|line[s]|list|tabs|tcl) [table-name]
Description -> The .mode command sets the output mode. This determines how the output data is formatted and presented. The optional table name is only used by the insert mode.
The default mode is list.
type== c:\sqlite > .mode csv

2) Then use import command for importing file
SQLite Import ->You can import a CSV file into SQLite table by using sqlite3 tool and **.import command**. This command accepts a **file name, and a table name**.

Here, file name is the file from where the data is fetched and the table name is the table where the data will be imported into.
In the absence of the table, it will create the table automatically according to the data in CSV file.
type == c:\sqlite > .import today.csv stud
> .schema stud
(see the output in cmd)
type == c:\sqlite> select * from stud;
file is successfully imported.



3) for display header :
>.header on
>select * from stud; (see the output in cmd)
4) for display columns:
>.mode column
>select * from stud; (see the output in cmd)