

- 1.) GO AND DEVELOP MANY SQL STATEMENT USING SQLITE3
- 2.) PERFORM JOIN STATEMENTS FROM TWO OR MORE TABLES
- 3.) THINK ABOUT ONE PROJECT WE CAN BUILD AS A PROJECT.

STATEMENTS USED : CREATE, INSERT, ALTER, UPDATE

DOT(.) COMMANDS USED : .mode on .header on

JOIN STATEMENTS USED : INNER JOIN, CROSS JOIN, NATURAL JOIN

```
C:\Users\Gcinithemba>sqlite3 SCA_ASSIGNMENT.db;
```

```
SQLite version 3.34.0 2020-12-01 16:14:00
```

```
Enter ".help" for usage hints.
```

```
sqlite> CREATE TABLE clients
```

```
...> (client_id INT, cfull_name TEXT, agent_id VARCHAR(50),email VARCHAR(50));
```

```
sqlite> INSERT INTO clients VALUES(1,"G.Maphosa","34","gsm@gmail.com");
```

```
sqlite> INSERT INTO clients VALUES (2,"Y.PATAI","45","ypatai@yahoo.com");
```

```
sqlite> INSERT INTO clients VALUES (5,"U.AGGRIPA","34","ugrippa@yahoo.com");
```

```
sqlite> CREATE TABLE agents
```

```
...> (agent_id VARCHAR(50), full_name TEXT, commission REAL,salary REAL);
```

```
sqlite> INSERT INTO agents VALUES("40","S.Graham",1.44, 2900);
```

```
sqlite> INSERT INTO agents VALUES("45","S.Ndlovu",9.44, 6900);
```

```
sqlite> INSERT INTO agents VALUES("35","E.Nyambiya",19.44, 5900);
```

```
sqlite> INSERT INTO agents VALUES("34","T.Ncube",5.34, 5800);
```

```
sqlite> CREATE TABLE products
```

```
...> (product_id INT,p_name VARCHAR(50),p_quantity INT);
```

```
sqlite> INSERT INTO products (product_id,p_quantity) VALUES (4,5);
```

```
sqlite> .mode column
```

```
sqlite> .header on
```

```
sqlite> SELECT * FROM agents;
```

```
agent_id full_name commission salary
```

```
-----  
40    S.Graham    1.44    2900.0  
45    S.Ndlovu    9.44    6900.0  
35    E.Nyambiya 19.44    5900.0  
34    T.Ncube     5.34    5800.0
```

```
sqlite> SELECT * FROM clients;
```

```
client_id cfull_name agent_id email
```

```
-----  
1      G.Maphosa  34      gsm@gmail.com  
2      Y.PATAI   45      ypatai@yahoo.com  
5      U.AGGRIPA 34      ugrippa@yahoo.com
```

```
sqlite> ALTER TABLE clients ADD year DATE;
```

```
sqlite> UPDATE clients SET year = '2020';
```

```
sqlite> SELECT * FROM clients;
```

```
client_id cfull_name agent_id email      year  
-----  
1      G.Maphosa  34      gsm@gmail.com    2020  
2      Y.PATAI   45      ypatai@yahoo.com 2020  
5      U.AGGRIPA 34      ugrippa@yahoo.com 2020
```

```
sqlite> SELECT email FROM clients;
```

```
email
```

```
-----  
gsm@gmail.com  
ypatai@yahoo.com  
ugrippa@yahoo.com
```

```
sqlite> SELECT * FROM clients WHERE client_id=1;
```

```
client_id cfull_name agent_id email      year
```

```
-----
```

```
1      G.Maphosa  34      gsm@gmail.com 2020
```

```
sqlite> .tables
```

```
agents  clients products
```

```
sqlite> DROP TABLE products;
```

```
sqlite> .tables
```

```
agents  clients
```

```
sqlite> SELECT clients.Cfull_name, clients.email,agents.full_name,agents.commission FROM clients
```

```
...> INNER JOIN agents
```

```
...> ON clients.agent_id=agents.agent_id;
```

```
cfull_name email      full_name commission
```

```
-----
```

```
G.Maphosa  gsm@gmail.com  T.Ncube  5.34
```

```
Y.PATAI  ypatai@yahoo.com  S.Ndlovu  9.44
```

```
U.AGGRIPA  ugrippa@yahoo.com  T.Ncube  5.34
```

```
qlite> SELECT * FROM clients CROSS JOIN agents;
```

```
client_id cfull_name agent_id email      year agent_id full_name  commission salary
```

```
-----
```

```
1      G.Maphosa  34      gsm@gmail.com  2020 40      S.Graham  1.44      2900.0
```

```
1      G.Maphosa  34      gsm@gmail.com  2020 45      S.Ndlovu  9.44      6900.0
```

```
1      G.Maphosa  34      gsm@gmail.com  2020 35      E.Nyambiya 19.44     5900.0
```

```
1      G.Maphosa  34      gsm@gmail.com  2020 34      T.Ncube  5.34      5800.0
```

```
2      Y.PATAI  45      ypatai@yahoo.com 2020 40      S.Graham  1.44      2900.0
```

```
2      Y.PATAI  45      ypatai@yahoo.com 2020 45      S.Ndlovu  9.44      6900.0
```

```
2      Y.PATAI  45      ypatai@yahoo.com 2020 35      E.Nyambiya 19.44     5900.0
```

```
2      Y.PATAI  45      ypatai@yahoo.com 2020 34      T.Ncube  5.34      5800.0
```

5	U.AGGRIPA	34	ugrippa@yahoo.com	2020	40	S.Graham	1.44	2900.0
5	U.AGGRIPA	34	ugrippa@yahoo.com	2020	45	S.Ndlovu	9.44	6900.0
5	U.AGGRIPA	34	ugrippa@yahoo.com	2020	35	E.Nyambiya	19.44	5900.0
5	U.AGGRIPA	34	ugrippa@yahoo.com	2020	34	T.Ncube	5.34	5800.0

sqlite> SELECT * FROM clients NATURAL JOIN agents;

client_id	cfull_name	agent_id	email	year	full_name	commission	salary
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1	G.Maphosa	34	gsm@gmail.com	2020	T.Ncube	5.34	5800.0
2	Y.PATAI	45	ypatai@yahoo.com	2020	S.Ndlovu	9.44	6900.0
5	U.AGGRIPA	34	ugrippa@yahoo.com	2020	T.Ncube	5.34	5800.0