

- 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	<a href="mailto:gsm@gmail.com">gsm@gmail.com</a>
2	Y.PATAI	45	<a href="mailto:ypatai@yahoo.com">ypatai@yahoo.com</a>
5	U.AGGRIPA	34	<a href="mailto:ugrippa@yahoo.com">ugrippa@yahoo.com</a>

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	<a href="mailto:gsm@gmail.com">gsm@gmail.com</a>	2020
2	Y.PATAI	45	<a href="mailto:ypatai@yahoo.com">ypatai@yahoo.com</a>	2020
5	U.AGGRIPA	34	<a href="mailto:ugrippa@yahoo.com">ugrippa@yahoo.com</a>	2020

sqlite> SELECT email FROM clients;

email

-----

[gsm@gmail.com](mailto:gsm@gmail.com)

[ypatai@yahoo.com](mailto:ypatai@yahoo.com)

[ugrippa@yahoo.com](mailto: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
	-----	-----	-----	-----	----	-----	-----	-----
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

### **PROJECT WE CAN BUILD AS A TEAM IS A CONFERENCE DATABASE MANAGEMENT SYSTEM**

This conference database keeps the record of different conferences, who all are attending the conference, who are the speakers, details about the venue, catering services and time. And other fields we may consider.