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 : .modeon .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

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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

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1 G.Maphosa 34 gsm@gmail.com

2 Y.PATAI 45 ypatai@yahoo.com

5 U.AGGRIPA 34 [ugrippa@yahoo.com](mailto: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

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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

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gsm@gmail.com

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

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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

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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

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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

**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.