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

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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