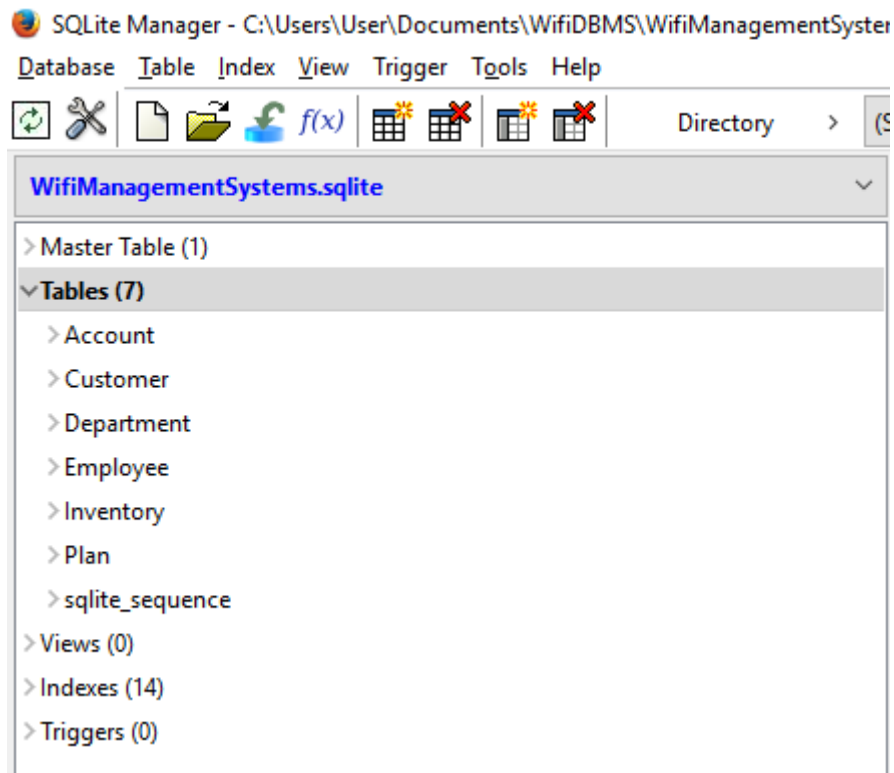


CMPE 272 - Database Team based Assignment

- 1) Installed SQLite Manager as a browser extension to mozilla and created a schema for WiFi System management as shown below using the create table wizard



2) Table structure and definition for Accounts and the query corresponding to it.

WifiManagementSystems.sqlite

Structure | Browse & Search | Execute SQL | DB Settings

TABLE: Account

Drop Empty Rename Reindex Copy Export

Create statement

```
CREATE TABLE "Account" ("ACC_NUMBER" INTEGER PRIMARY KEY NOT NULL UNIQUE, "PLAN_ID" INTEGER NOT NULL, "CUST_ID" INTEGER NOT NULL, "CUST_PASSWORD" VARCHAR NOT NULL, "PAYMENT_STATUS" VARCHAR NOT NULL, "BILLING_START_DATE" DATETIME NOT NULL, "BILLING_END_DATE" DATETIME NOT NULL, "AMOUNT" FLOAT NOT NULL)
```

More Info

No. of Records: 5 No. of Indexes: 1 No. of Triggers: 0

Columns (8)

Column ID	Name	Type	Not Null	Default Value	Primary Key
0	ACC_NUMBER	INTEGER	1	null	1
1	PLAN_ID	INTEGER	1	null	0
2	CUST_ID	INTEGER	1	null	0
3	CUST_PASSWORD	VARCHAR	1	null	0
4	PAYMENT_STATUS	VARCHAR	1	null	0
5	BILLING_START_DATE	DATETIME	1	null	0
6	BILLING_END_DATE	DATETIME	1	null	0
7	AMOUNT	FLOAT	1	null	0

3) Inserted Data in the Table for Employee.

WifiManagementSystems.sqlite

Structure | Browse & Search | Execute SQL | DB Settings

TABLE Employee Search Show All Add Duplicate Edit Delete

EMP_ID	EMP_NAME	EMP_CONTACT	EMP_EMAIL	EMP_ADDRESS
1001	BOB MARLEY	8622838698	bob.m@gmail.com	518, 101 San Fernando, San Jose
1002	Tom Lin	8622838699	tomlin@gmail.com	519, 101 San Fernando, San Jose
1003	Harry	8622838600	harry123@gmail.com	520, 101 San Fernando, San Jose
1004	David Daizey	8622838601	daviddaisey@gmail.com	521, 101 San Fernando, San Jose
1005	Jerry Cruize	8622838602	jerry543@gmail.com	522, 101 San Fernando, San Jose

4) Running a join query with other SQL using where clauses

Structure | Browse & Search | Execute SQL | DB Settings

Enter SQL Select | Data Manipulation | Create/Alter | Drop | ReIndex | PRAGMA

```
select Cust_name,payment_status,plan_name from customer c,account a,plan p where c.cust_id = a.cust_id and a.plan_id = p.plan_id and a.payment_status = 'Due'
```

Run SQL Actions Last Error: not an error

CUST_NAME	PAYMENT_STATUS	PLAN_NAME
Charlie	Due	100 mbps/ 1 month/unlimited
Joselin	Due	100 mbps/ 2 month/unlimited
Phibu	Due	200 mbps/ 3 month/unlimited

5) Creation of an index on Plan_id column.

Structure | Browse & Search | Execute SQL | DB Settings

INDEX: Plan_id

Drop Reindex

Create statement

```
CREATE INDEX "Plan_id" ON "Plan" ("PLAN_ID" ASC)
```

Index Properties

Indexed Table: Plan Duplicate Values: Allowed

Indexed Fields

Seq. No.	Column ID	Name
0	0	PLAN_ID

Structure | Browse & Search | Execute SQL | DB Settings

INDEX: sqlite_autoindex_Customer_1

Drop Reindex

Index Properties

Indexed Table: Customer Duplicate Values: Not Allowed

Indexed Fields

Seq. No.	Column ID	Name
0	0	CUST_ID

6) Executing different queries on the created schema

Structure

Browse & Search

Execute SQL

DB Settings

Enter SQL

Select | Data Manipulation | Create/Alter | Drop | ReIndex | PRAGMA

select * from customer c, account a, inventory i where c.cust_id = a.cust_id and a.acc_number = i.acc_number and status = 'Available'

Run SQL

Actions ▾

Last Error: not an error

CUST_ID	CUST_N...	CUST_C...	CUST_E...	CUST_A...	ACC_N...	PLAN_ID	CUST_ID	CUST_P...	PAYME...	BILLING...	BILLING...	AMOUNT	DEVICE_...	DEV...
101	Charlie	6458792...	charlie1...	101, E, S...	1001	201	101	password	Due	02/17/20...		600\$	501	dev1
103	Joselin	9786585...	Joselin8...	101, E, S...	1003	203	103	password	Due	02/17/20...		50\$	503	dev3
105	Phibu	5887774...	phibu12...	101, E, S...	1005	205	105	password	Due	02/17/20...		80\$	505	dev5

CUST_ID	CUST_N...	CUST_C...	CUST_E...	CUST_A...	ACC_N...	PLAN_ID	CUST_ID	CUST_P...	PAYME...	BILLING...	BILLING...	AMOUNT	DEVICE_...	DEV...
101	Charlie	6458792...	charlie1...	101, E, S...	1001	201	101	password	Due	02/17/20...		600\$	501	dev1
103	Joselin	9786585...	Joselin8...	101, E, S...	1003	203	103	password	Due	02/17/20...		50\$	503	dev3
105	Phibu	5887774...	phibu12...	101, E, S...	1005	205	105	password	Due	02/17/20...		80\$	505	dev5