AMERICAN INTERNATIONAL UNIVERSITY OF BANGLADESH

PROJECT: **Coffee Shop Management System**

COURSE : **INTRODUCTION TO DATABASE**

COURSE TEACHER: **SIFAT RAHMAN AHONA**

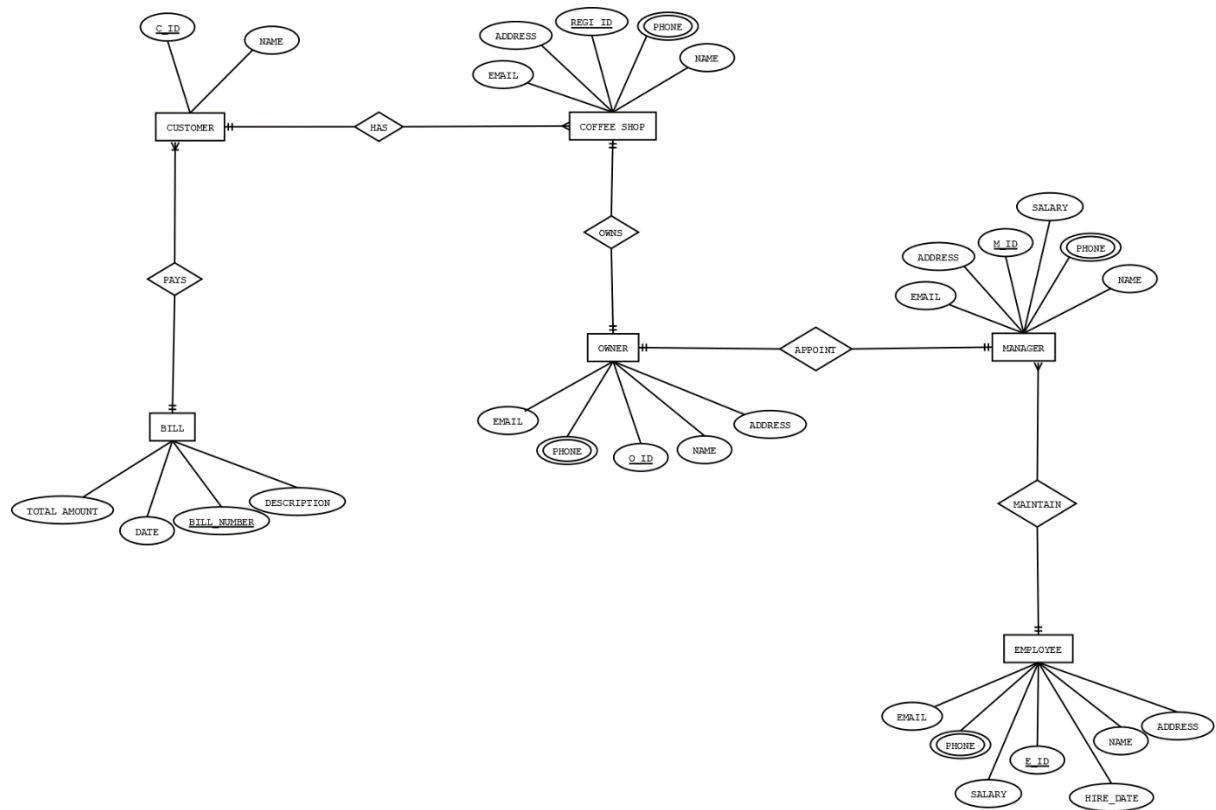| NO	NAME	ID	SECTION
01	MD RIYAD MAHMUD	18-38438-2	C
02	RAHUL SAHA	18-38439-2	C
03	SAJAN DATTA	18-38607-2	C
04			C

INTRODUCTION :

The purpose of the coffee shop does sometimes take on the purpose of the centre of society. Your visit could be to meet up or gossip with your friends, do some works, read a book, entertain, or simply to just pass some time. It can be one place that will be a great meeting ground. On the other hand many people start earlier in the morning with a strong coffee and make themselves refresh. So, a coffee shop is there destination in morning or during the whole day.

CASE STUDY :

A Coffee Shop recognized by Shop Name, Address, Phone number, shop regi_id and email. Every Coffee Shop has an Owner who owns the Coffee Shop. The Owner identify by his/her name, Address, ID, Phone number, Email. The Owner appoint a manager to manage the Coffee Shop. He has also a unique id, Name, Phone number, Salary, Address, Email. The Manager Manages his Coffee Shop and also maintains his employees. Employees recognized by unique id, name. Employees phone number, Address, Email, Salary and Hire_date has also recorded to Manager. In a Coffee shop Customer often visited. Therefore, their name, default id recorded in the system. After spend their time and finished their coffee they pay bill. Bill has bill_number, descrptition, time, date , total amount .that is how a coffee shop management system run .

ER-DIAGRAM:

NORMALIZATION:

OWNS

Regi_id	address	Phone	email	name	O_id	name	phone	email	address

1NF:

PHONE

2NF:

REGI_ID	NAME	ADDRESS	PHONE	EMAIL	O_ID

O_ID	NAME	EMAIL	PHONE	ADDRESS

3NF:

REGI_ID	NAME	ADDRESS	PHONE	EMAIL	O_ID

O_ID	NAME	EMAIL	PHONE	ADDRESS

TABLE:

1.

REGI_ID	NAME	ADDRESS	PHONE	EMAIL	O_ID

2.

O_ID	NAME	EMAIL	PHONE	ADDRESS

APPOINT:

O_ID	NAME	PHONE	EMAIL	ADDRESS	M_ID	PHONE	NAME	ADDRESS	EMAIL	SALARY

1NF:

PHONE

2NF:

O_id	Phone	Email	name	address

M_ID	NAME	PHONE	SALARY	ADDRESS	EMAIL	O_ID

3NF:

O_id	Phone	Email	name	address

M_ID	NAME	PHONE	SALARY	ADDRESS	EMAIL	O_ID

TABLE:

1.

O_id	Phone	Email	name	address

2.

M_ID	NAME	PHONE	SALARY	ADDRESS	EMAIL	O_ID

MAINTAIN:

M_ID	NAME	PHONE	SALARY	ADDRESS	EMAIL	E_ID	NAME	ADDRESS	EMAIL	PHONE	SALARY	HIRE_DATE

1NF:

PHONE

2NF:

M_ID	NAME	PHONE	SALARY	ADDRESS	EMAIL	E_ID

E_ID	NAME	ADDRESS	EMAIL	PHONE	SALARY	HIRE_DATE

3NF:

M_ID	NAME	PHONE	SALARY	ADDRESS	EMAIL	E_ID

E_ID	NAME	ADDRESS	EMAIL	PHONE	SALARY	HIRE_DATE

TABLE:

1.

M_ID	NAME	PHONE	SALARY	ADDRESS	EMAIL	E_ID

2.

E_ID	NAME	ADDRESS	EMAIL	PHONE	SALARY	HIRE_DATE

HAS:

REGI_ID	NAME	ADDRESS	EMAIL	PHONE	C_ID	NAME

1NF:

PHONE

2NF:

REGI_ID	NAME	ADDRESS	EMAIL	PHONE	C_ID

C_ID	NAME

3NF:

REGI_ID	NAME	ADDRESS	EMAIL	PHONE	C_ID

C_ID	NAME

TABLE:

1.

REGI_ID	NAME	ADDRESS	EMAIL	PHONE	C_ID

2.

C_ID	NAME

PAYS:

C_ID	NAME	BILL_NUMBER	DESCRIPTION	TOTALAMOUNT	DATE

1NF:

NO MULTI VALUED ATTRIBUTE

2NF:

C_ID	NAME	BILL_NUMBER

BILL_NUMBER	DESCRIPTION	TOTALAMOUNT	DATE

3NF:

C_ID	NAME	BILL_NUMBER

BILL_NUMBER	DESCRIPTION	TOTALAMOUNT	DATE

TABLE:

1.

C_ID	NAME	BILL_NUMBER

2.

BILL_NUMBER	DESCRIPTION	TOTALAMOUNT	DATE

TOTAL TABLE

1.

REGI_ID	NAME	ADDRESS	PHONE	EMAIL	O_ID

2.

O_ID	NAME	EMAIL	PHONE	ADDRESS

3.

O_id	Phone	Email	name	address

4.

M_ID	NAME	PHONE	SALARY	ADDRESS	EMAIL	O_ID

5.

M_ID	NAME	PHONE	SALARY	ADDRESS	EMAIL	E_ID

6.

E_ID	NAME	ADDRESS	EMAIL	PHONE	SALARY	HIRE_DATE

7.

REGI_ID	NAME	ADDRESS	EMAIL	PHONE	C_ID

8.

C_ID	NAME

9.

C_ID	NAME	BILL_NUMBER

10.

BILL_NUMBER	DESCRIPTION	TOTALAMOUNT	DATE

FINAL TABLE:

1.

O_id	Phone	Email	name	address

2.

C_ID	NAME	BILL_NUMBER

3.

BILL_NUMBER	DESCRIPTION	TOTALAMOUNT	DATE

4.

E_ID	NAME	ADDRESS	EMAIL	PHONE	SALARY	HIRE_DATE

5.

REGI_ID	NAME	ADDRESS	PHONE	EMAIL	O_ID	C_ID

6.

M_ID	NAME	ADDRESS	PHONE	EMAIL	SALARY	O_ID	E_ID

TABLE CREATION AND VALUE INSEARTATION

OWER TABLE

CREATE TABLE OWNER(

O_ID NUMBER (10) PRIMARY KEY,

PHONE NUMBER (10),

EMAIL VARCHAR2 (25),

NAME VARCHAR2 (25),

ADDRESS VARCHAR2 (25))

INSERT INTO OWNER

(O_ID ,PHONE,EMAIL,NAME,ADDRESS)

VALUES (100,01635752415,'SCRIBBLE@GMAIL.COM', 'RIYAD','DHAKA')

O_ID	PHONE	EMAIL	NAME	ADDRESS
100	1635752415	scribble@gmail.com	riyad	dhaka

1 rows returned in 0.00 seconds   CSV Export

CUSTOMER TABLE

CREATE TABLE CUSTOMER

(

C_ID NUMBER (10) PRIMARY KEY,

NAME VARCHAR2 (10),

BILL_NUMBER NUMBER (10))

INSERT INTO CUSTOMER

(C_ID,NAME,BILL_NUMBER)

VALUES (200, 'RAHUL',300)

INSERT INTO CUSTOMER

(C_ID,NAME,BILL_NUMBER)

VALUES (201, 'SAJAN',301)

INSERT INTO CUSTOMER

(C_ID,NAME,BILL_NUMBER)

VALUES (202, 'DATTA',302)

INSERT INTO CUSTOMER

(C_ID,NAME,BILL_NUMBER)

VALUES (203, 'SAHA',303)

INSERT INTO CUSTOMER

(C_ID,NAME,BILL_NUMBER)

VALUES (204, 'MAHMUD',304)

C_ID	NAME	BILL_NUMBER
200	rahul	300
201	sajan	301
202	datta	302
203	saha	303
204	mahmud	304

BILL TABLE

CREATE TABLE BILL

(

BILL_NUMBER NUMBER(10) PRIMARY KEY,

DESCRIPTION VARCHAR2 (25),

TOTALAMOUNT NUMBER (10),

VISIT_DATE VARCHAR2 (15)

)

INSERT INTO BILL

(BILL_NUMBER,DESCRIPTION,TOTALAMOUNT,VISIT_DATE)

VALUES (300, 'BLACK COFFEE',150, '10-10-10')

INSERT INTO BILL

(BILL_NUMBER,DESCRIPTION,TOTALAMOUNT,VISIT_DATE)

VALUES (301, ' COLD COFFEE',120, '11-10-10')

INSERT INTO BILL

(BILL_NUMBER,DESCRIPTION,TOTALAMOUNT,VISIT_DATE)

VALUES (302, ' SUGER FREE COFFEE',110, '12-10-10')

INSERT INTO BILL

(BILL_NUMBER,DESCRIPTION,TOTALAMOUNT,VISIT_DATE)

VALUES (303, 'HOT COFFEE',100, '13-10-10')

INSERT INTO BILL

(BILL_NUMBER,DESCRIPTION,TOTALAMOUNT,VISIT_DATE)

VALUES (304, 'WHITE COFFEE',100, '13-10-10')

BILL_NUMBER	DESCRIPTION	TOTALAMOUNT	VISIT_DATE
300	BLACK COFFEE	150	10-10-10
302	SUPER FREE COFFEE	110	12-10-10
303	HOT COFFEE	100	13-10-10
304	WHITE COFFEE	100	13-10-10
301	cold COFFEE	120	11-10-10

EMPLOYEE TABLE

CREATE TABLE EMPLOYEE

(

E_ID NUMBER (10) PRIMARY KEY,

NAME VARCHAR2 (15),

ADDRESS VARCHAR2 (15),

EMAIL VARCHAR2 (25),

PHONE NUMBER (11),

SALARY NUMBER (15),

HIRE_DATE VARCHAR2 (20)

)

INSERT INTO EMPLOYEE

(E_ID,NAME,ADDRESS,EMAIL,PHONE,SALARY,HIRE_DATE)

VALUES (500, 'RIYAD','DINAJPUR' ,'RIYAD@GMAIL.COM',01790383988, 10000, '11-10-10')

INSERT INTO EMPLOYEE

(E_ID,NAME,ADDRESS,EMAIL,PHONE,SALARY,HIRE_DATE)

VALUES (501, 'RAHUL','FARIDPUR' ,'RAHUL@GMAIL.COM',017903835687, 9000, '9-9-9')

INSERT INTO EMPLOYEE

(E_ID,NAME,ADDRESS,EMAIL,PHONE,SALARY,HIRE_DATE)

VALUES (502, 'SAJAN','COMILLA' ,'SAJAN@GMAIL.COM',016215835687, 8000, '8-7-9')

INSERT INTO EMPLOYEE

(E_ID,NAME,ADDRESS,EMAIL,PHONE,SALARY,HIRE_DATE)

VALUES (503, 'HAKIM','BOGRA' ,'HAKIM@GMAIL.COM',016215834587, 8500, '8-8-9')

INSERT INTO EMPLOYEE

(E_ID,NAME,ADDRESS,EMAIL,PHONE,SALARY,HIRE_DATE)

VALUES (504, 'SAKIB','RAJSHAHI' ,'SAKIB@GMAIL.COM',016215830007, 7000, '8-8-9')

E_ID	NAME	ADDRESS	EMAIL	PHONE	SALARY	HIRE_DATE
500	riyad	dinajpur	riyad@gmail.com	1790383988	10000	11-10-10
501	rahul	faridpur	rahul@gmail.com	17903835687	9000	9-9-9
502	sajan	comilla	sajan@gmail.com	16215835687	8000	8-7-9
503	hakim	bogra	hakim@gmail.com	16215834587	8500	8-8-9
504	sakib	rajshahi	sakib@gmail.com	16215830007	7000	8-8-9

COFFEESHOP TABLE

CREATE TABLE COFFEESHOP

(

REGI_ID NUMBER (10) PRIMARY KEY,

NAME VARCHAR2 (10),

ADDRESS VARCHAR2 (20),

PHONE NUMBER (11),

EMAIL VARCHAR2 (25),

O_ID NUMBER (10),

C_ID NUMBER (10)

)

INSERT INTO COFFEESHOP

(REGI_ID,NAME,ADDRESS,PHONE,EMAIL,O_ID,C_ID)

VALUES (001,'SCRIBBLE COFFEE SHOP', 'DHANMODHI 32 DHAKA', 01635752415,'RIYADMAHMUD@GMAIL.COM',100,200)

INSERT INTO COFFEESHOP

(C_ID)

VALUES (201)

INSERT INTO COFFEESHOP

(C_ID)

VALUES (202)

INSERT INTO COFFEESHOP

(C_ID)

VALUES (203)

INSERT INTO COFFEESHOP

(C_ID)

VALUES (204)

REGI_ID	NAME	ADDRESS	PHONE	EMAIL	O_ID	C_ID
1	SCRIBBLE COFFEE SHOP	DHANMODHI 32 DHAKA	1635752415	RIYADMAHMUD@GMAIL.COM	100	200
-	-	-	-	-	-	201
-	-	-	-	-	-	202
-	-	-	-	-	-	203
-	-	-	-	-	-	204

MANAGER TABLE

CREATE TABLE MANAGER(

M_ID NUMBER (10),

NAME VARCHAR2 (15),

ADDRESS VARCHAR2 (16),

PHONE NUMBER (10),

EMAIL VARCHAR2 (20),

SALARY NUMBER (10),

O_ID NUMBER (10),

E_ID NUMBER (10))

INSERT INTO MANAGER

(M_ID,NAME,ADDRESS,PHONE,EMAIL,SALARY,O_ID,E_ID)

VALUES (1000,'SCRIBBLE', 'DHANMODHI', 01635752415,'MAHMUD@GMAIL.COM',11000,100,500)

INSERT INTO MANAGER

(E_ID)

VALUES (501)

INSERT INTO MANAGER

(E_ID)

VALUES (502)

INSERT INTO MANAGER

(E_ID)

VALUES (503)

INSERT INTO MANAGER

(E_ID)

VALUES (504)

M_ID	NAME	ADDRESS	PHONE	EMAIL	SALARY	O_ID	E_ID
1000	SCRIBBLE	DHANMODHI	1635752415	MAHMUD@GMAIL.COM	11000	100	500
-	-	-	-	-	-	-	501
-	-	-	-	-	-	-	502
-	-	-	-	-	-	-	502
-	-	-	-	-	-	-	503
-	-	-	-	-	-	-	504

SUB QUARY

1. **FIND OUT NAME AND SALARY WHOSE SALARY IS GREATER THAN EMPLOYEE ID =503?**

 ANS:

SELECT NAME, SALARY FROM EMPLOYEE WHERE SALARY >

(SELECT SALARY FROM EMPLOYEE WHERE E_ID = 503)

NAME	SALARY
riyad	10000
rahul	9000

2.FIND OUT NAME AND SALARY WHOSE SALARY IS THE LOWEST SALARY ?

ANS :

SELECT NAME, SALARY FROM EMPLOYEE WHERE SALARY >

(SELECT MIN(SALARY) FROM EMPLOYEE)

NAME	SALARY
riyad	10000
rahul	9000
sajan	8000
hakim	8500

3. FIND OUT NAME AND SALARY WHOSE SALARY IS GREATER THAN RAHUL'S SALARY?

ANS:

SELECT NAME, SALARY FROM EMPLOYEE WHERE SALARY >

(SELECT SALARY FROM EMPLOYEE WHERE NAME = 'RAHUL')

NAME	SALARY
riyad	10000
rahul	9000

JOIN

1.FIND OUT OWER NAME ,ID, COFFEESHOP NAME FROM COFFEE SHOP TABLE?

ANS:

SELECT O.NAME,O.O_ID,C.NAME FROM OWNER O, COFFEESHOP C

WHERE C.O_ID=O.O_ID

NAME	O_ID	NAME
riyad	100	SCRIBBLE COFFEE SHOP

1 rows returned in 0.02 seconds   CSV Export

2.FIND OUT EMPLOYEE NAME ,SALARY ,ID FROM MANAGER TABLE?

ANS:

SELECT E.NAME,E.E_ID,E.NAME, M.NAME FROM EMPLOYEE E,MANAGER M

WHERE M.E_ID=E.E_ID

NAME	E_ID	NAME	NAME
riyad	500	riyad	SCRIBBLE
rahul	501	rahul	-
sajan	502	sajan	-
sajan	502	sajan	-
hakim	503	hakim	-
sakib	504	sakib	-

3. FIND OUT CUSTOMER ID AND NAME   FROM COFFESHOP?

ANS:

SELECT C.NAME,C.C_ID FROM CUSTOMER C,COFFEESHOP CS

WHERE CS.C_ID=C.C_ID

NAME	C_ID
rahul	200
sajan	201
datta	202
saha	203
mahmud	204

VIEW:

CREATE OR REPLACE VIEW RIYAD

AS SELECT REGI_ID , NAME

FROM COFFEESHOP

WHERE C_ID = '500'

CONCLUSION : THIS PROJECT IS ABOUT ON A COFEEE SHOP MANAGEMENT SYSTERM .THIS IS NOT AN ONLINE BASED SYSTEM. THIS SYSTEM IS CREATE FOR MANAGING A LOCAL COFFEE SHOP WHERE COFFEE SHOP , OWER ,MANAGER ,EMPLOYEE DETAILS ARE INCLUDED AND CUSTOMER ACTIVITIES ARE RECORDER . THIS SYSTEM CAN BE USEFUL FOR A LOCAL COFFEE SHOP WHO WANTS TO RECORD THEIR DAILYS ACTIVITIES .

Thank you!