190905513 **MOHAMMAD DANISH EQBAL**

WEEK 1

Solved Example:

```
CREATE TABLE BRANCH
(BRANCH_NAME VARCHAR (15) PRIMARY KEY,
BRANCH_CITY VARCAHAR (20),
ASSETS NUMBER (10));
CREATE TABLE ACCOUNT
(ACCOUNT_NUMBER NUMBER (10) PRIMARY KEY,
BRANCH_NAME VARCHAR (15) REFERENCES BRANCH,
BALANCE NUMBER (8));
CREATE TABLE CUSTOMER
(CUSTOMER_NAME VARCHAR (20) PRIMARY KEY,
CUSTOMER_STREETVARCHAR (15),
CUSTOMER_CITY VARCHAR (10));
CREATE TABLE LOAN
(LOAN_NUMBER NUMBER (10) PRIMARY KEY,
BRANCH_NAME VARCHAR (15)REFERENCES BRANCH,
AMOUNT NUMBER (10));
CREATE TABLE DEPOSITOR
(CUSTOMER_NAME VARCHAR (2) REFERENCES CUSTOMER,
ACCOUNT_NUMBER NUMBER (10) REFERENCES ACCOUNT,
PRIMARY KEY (CUSTOMER_NAME, ACCOUNT_NUMBER));
CREATE TABLE BORROWER
(CUSTOMER_NAME VARCHAR(2) REFERENCES CUSTOMER,
LOAN_NUMBER NUMBER(10) REFERENCES LOAN,
PRIMARY KEY(CUSTOMER_NAME,LOAN_NUMBER));
```

Retrieving records from a table:

1. list the information of all account holders (name and account number).

```
Select * from depositor.
```

2. List all branch names and their assets

```
SELECT BRANCH_NAME, ASSETS FROM BRANCH;
```

3. List all accounts of Brooklyn branch

```
SELECT * FROM ACCOUNT WHERE BRANCH_NAME= ‘BROOKLYN’;
```

4. List all loans with amount > 1000.

```
SELECT * FROM LOAN WHERE AMOUNT>1000;
```

Updating records from a table:

4. Change the assets of Perryridge branch to 340000000.

```
UPDATE BRANCH SET ASSETS=340000000
WHERE BRANCH_NAME=‘Perryridge’;
```

Lab Exercises:

1. Create a table employee with (emp_no, emp_name, emp_address).

create table employee(emp_no int not null, emp_name varchar(10), emp_address varchar(10));

alter table employee add primary key(emp_no);

2. Insert five employee information.

insert into employee values(1, 'Danish', 'Manipal');
insert into employee values(2, 'Bilal', 'Mangalore');
insert into employee values(3, 'Eram', 'Mangalore');
insert into employee values(4, 'Tarique', 'Manipal');
insert into employee values(5, 'Atif', 'Bangalore');

3. Display names of all employees.

select emp_name from employee;

4. Display all the employees from 'MANIPAL'.

select * from employee where emp_address='Manipal';

5. Add a column named salary to employee table.

alter table employee add (salary int);

6. Assign the salary for all employees.

update employee set salary=70000;

7. View the structure of the table employee using describe.

desc employee;

8. Delete all the employees from 'MANGALORE'.

delete from employee where emp_address='Mangalore';

9. Rename employee as employee1.

rename employee to employee1;

10. Drop the table employee1.

drop table employee1;