

# CSE302 (Section 2) [Spring 2022]

## **Lab Assignment Submission Report**

**Assignment Title: LAB 02** 

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#### 1. Screenshots

#### **Problem 1(i):**

```
SQL> CREATE TABLE account(
2 account_no CHAR(5),
3 balance NUMBER NOT NULL,
4 constraint accountNo_PK primary key(account_no),
5 constraint account_baln CHECK(balance>=0)
6 );
Table created.
```

## Problem 1(ii):

```
SQL> CREATE TABLE customer(
2 customer_no CHAR(5),
3 customer_name VARCHAR2(20) NOT NULL,
4 customer_city VARCHAR2(10),
5 constraint customerNo_PK primary key(customer_no)
6 );
Table created.
```

#### **Problem 1(iii):**

```
SQL> CREATE TABLE depositor(
  2 account_no CHAR(5),
  3 customer_no CHAR(5),
  4 constraint deposit_PK primary key(account_no,customer_no)
  5 );
Table created.
```

## **Problem 2(i):**

#### **Problem 2(ii):**

```
SQL> ALTER TABLE customer DROP COLUMN date_of_birth;

Table altered.

SQL> desc customer

Name

Null? Type

CUSTOMER_NO

CUSTOMER_NAME

NOT NULL CHAR(5)

CUSTOMER_NAME

NOT NULL VARCHAR2(20)

CUSTOMER_CITY

VARCHAR2(10)
```

## Problem 2(iii):

#### **Problem 2(iv):**

## **Problem 3:**

```
SQL> INSERT INTO account VALUES('A-101',12000);

1 row created.

SQL> INSERT INTO account VALUES('A-102',6000);

1 row created.

SQL> INSERT INTO account VALUES('A-103',2500);

1 row created.
```

```
SQL> INSERT INTO customer VALUES('C-101','Alice','Dhaka');

1 row created.

SQL> INSERT INTO customer VALUES('C-102','Annie','Dhaka');

1 row created.

SQL> INSERT INTO customer VALUES('C-103','Bob','Chittagong');

1 row created.

SQL> INSERT INTO customer VALUES('C-104','Charlie','Khulna');

1 row created.

SQL> INSERT INTO depositor VALUES('A-101','C-101');

1 row created.

SQL> INSERT INTO depositor VALUES('A-103','C-102');

1 row created.

SQL> INSERT INTO depositor VALUES('A-103','C-104');

1 row created.

SQL> INSERT INTO depositor VALUES('A-103','C-104');

1 row created.

SQL> INSERT INTO depositor VALUES('A-103','C-104');

1 row created.
```

#### **Problem 4(i):**

#### **Problem 4(ii):**

```
SQL> SELECT DISTINCT customer_city
2 from customer;

CUSTOMER_C
-----
Dhaka
Khulna
Chittagong
```

## **Problem 4(iii):**

```
SQL> SELECT account_no
2 FROM account
3 WHERE balance>7000;

ACCOU
----
A-101
```

#### **Problem 4(iv):**

#### **Problem 4(v):**

#### **Problem 4(vi):**

## **Problem 4(vii):**

#### **Problem 4(viii):**

#### **Problem 4(ix):**

#### Problem 4(x):

```
SQL> SELECT customer_name

2 FROM customer C, account A, depositor D

3 WHERE C.customer_no=D.c_no and D.a_no=NULL;

no rows selected
```

## 2. Learning Outcomes:

By doing this lab, I have learned how to create table with constraints like primary key, foreign key attributes and check with condition. I have learned how to alter table like adding attribute, dropping a column, modifying data type of an attribute and renaming an attribute or column etc in a table. I have also learned the process of doing multi-table queries from this lab.