

Lab Report : 5

Course Code: SE-224

Course Title: Database Systems Lab

SUBMITTED TO:

Mr. Md. Asiful Haque Prodhan

Daffodil International University

SUBMITTED BY:

Md. Mahmudul Hasan

ID: 181-35-2337

Section: A

Student, Daffodil International University

create database customers;

create table customer\_information

(

Customer\_id integer identity (1,1) primary key not null,

Customer\_name varchar (50) not null,

Thana varchar (50) not null,

District varchar (50) not null,

PotsOffice varchar (50) not null,

PostCode nchar (50) not null

)

insert into customer\_information

(Customer\_name,Thana,District,PotsOffice,PostCode)

values('Karim','gulshan','Dhaka','gulshan Model Town','1212')

insert into customer\_information

(Customer\_name,Thana,District,PotsOffice,PostCode)

values('rahim','palton','Dhaka','dhaka GPO','1000')

insert into customer\_information

(Customer\_name,Thana,District,PotsOffice,PostCode)

values('mehedi','tejgaon','Dhaka','tejgaon TSO','1215')

insert into customer\_information

(Customer\_name,Thana,District,PotsOffice,PostCode)

values('kamal','sylhet sadar','sylhet','jalalabad','3107')

insert into customer\_information

(Customer\_name,Thana,District,PotsOffice,PostCode)

values('zamal','rangpur sadar','rangpur','mahiganj','5403')

insert into customer\_information

(Customer\_name,Thana,District,PotsOffice,PostCode)

values('shakib','dinajpur sadar','dinajpur','jalalabad','3107')

insert into customer\_information

(Customer\_name,Thana,District,PotsOffice,PostCode)

values('nasir','thakurgaon sadar','thakurgaon','shibganj','5102')

insert into customer\_information

(Customer\_name,Thana,District,PotsOffice,PostCode)

values('mamun','tangail sadar','tangail','korotia','1903')

insert into customer\_information

(Customer\_name,Thana,District,PotsOffice,PostCode)

values('mahmud','kolampati','rangamati','betbunia','4511')

insert into customer\_information

(Customer\_name,Thana,District,PotsOffice,PostCode)

values('tamim','laksham','comilla','bipulasar','4572')

insert into customer\_information

(Customer\_name,Thana,District,PotsOffice,PostCode)

values('ahmed','hathazari','chittagong','fatahabad','4335')

insert into customer\_information

(Customer\_name,Thana,District,PotsOffice,PostCode)

values('imrul','moradnagar','comilla','bangra','3543')

insert into customer\_information

(Customer\_name,Thana,District,PotsOffice,PostCode)

values('sabbir','devidhar','comilla','dhamtee','3533')

insert into customer\_information

(Customer\_name,Thana,District,PotsOffice,PostCode)

values('sadman','chittagong sadar','chitagong','chawkbazar','4203')

select \*

from customer\_information

where district='comilla';

select \*

from customer\_information

where district !='dhaka';

select \*

from customer\_information

where district='dinajpur' or

district = 'thakurgaon';

select \*

from customer\_information

where potsOffice = 'dhaka GPO' or

potsOffice = 'jalalabad';

select \*

from customer\_information

where district != 'chittagong' and

postCode='1000' or

postCode='1215';

create table account

(

accountID integer primary key,

accountType varchar (20) not null,

balance integer not null,

cusrtomer\_id integer FOREIGN KEY REFERENCES Customer\_information (customer\_id)

)

insert into account

values (10308, 'savings',10000 ,1)

insert into account

values (10309, 'current',50000 ,2)

insert into account

values (10311, 'savings',70000 ,3)

insert into account

values (10312, 'savings',150000 ,4)

SELECT AccountID , Customer\_Name

FROM Account, customer\_information

WHERE Account.cusrtomer\_Id = customer\_information.Customer\_id

SELECT AccountID, customer\_name

FROM account

INNER JOIN customer\_information ON Account.Cusrtomer\_id = customer\_information.Customer\_id

SELECT customer\_information.customer\_name,account.accountID

FROM customer\_information

LEFT JOIN account ON customer\_information.Customer\_id = account.cusrtomer\_id

SELECT customer\_information.customer\_name,customer\_information.District,account.accountID

FROM account

RIGHT JOIN customer\_information ON account.cusrtomer\_id = customer\_information.Customer\_id

SELECT \*

FROM customer\_information

FULL outer JOIN account ON customer\_information.Customer\_id=account.cusrtomer\_id

ORDER BY customer\_information.Customer\_name

SELECT \*

FROM customer\_information

ORDER BY Customer\_name ASC

SELECT TOP 5 \*

FROM Customer\_information

SELECT TOP 50 PERCENT \*

FROM customer\_information

SELECT TOP 2 \*

FROM customer\_information

WHERE District='Dhaka'

SELECT MIN (Balance) AS Smollestbalance

FROM Account

SELECT MAX (Balance) AS Largestbalance

FROM Account

SELECT SUM (Balance)

FROM Account

SELECT AVG (Balance)

FROM Account

SELECT Customer\_id FROM Customer\_information

UNION

SELECT cusrtomer\_id FROM Account

SELECT Customer\_id FROM customer\_information

INTERSECT

SELECT Cusrtomer\_id FROM Account

SELECT Customer\_id FROM customer\_information

EXCEPT

SELECT cusrtomer\_id FROM Account

SELECT \* FROM customer\_information

WHERE PostCode BETWEEN 1000 AND 3107

SELECT COUNT(Customer\_id)

FROM Customer\_information

SELECT District, COUNT(Customer\_id)

FROM Customer\_information

GROUP BY District

-- Lists the number of customers in each District.

-- Only include District with more than 1 customer

SELECT District, COUNT(Customer\_id)

FROM customer\_information

GROUP BY District

HAVING COUNT(Customer\_id) > 1

-- lists the number of customers in each District, sorted high to low

-- Only include District with more than 1 customer

SELECT District, COUNT(Customer\_id)

FROM customer\_information

GROUP BY District

HAVING COUNT(Customer\_id) > 1

ORDER BY COUNT(Customer\_id) DESC

SELECT \* FROM customer\_information

WHERE District IN ('Dhaka', 'Rangpur', 'Dinajpur')

SELECT \* FROM customer\_information

WHERE District NOT IN ('Dhaka', 'Rangpur', 'Dinajpur')

-- % - The percent sign represents zero, one, or multiple characters

-- \_ - The underscore represents a single character

-- CustomerName starting with "k"

SELECT \* FROM customer\_information

WHERE Customer\_name LIKE 'k%'

--CustomerName ending with "m"

SELECT \* FROM customer\_information

WHERE Customer\_name LIKE '%m'

-- CustomerName that have "im" in any position

SELECT \* FROM customer\_information

WHERE Customer\_name LIKE '%im%'

-- CustomerName that have "a" in the second position

SELECT \* FROM customer\_information

WHERE Customer\_name LIKE '\_a%'

-- CustomerName that starts with "k" and are at least 3 characters in length

SELECT \* FROM customer\_information

WHERE Customer\_name LIKE 'k\_\_%'

-- CustomerName that starts with "k" and ends with "m"

SELECT \* FROM customer\_information

WHERE Customer\_name LIKE 'k%m'

-- CustomerName that does NOT start with "k"

SELECT \* FROM customer\_information

WHERE Customer\_name NOT LIKE 'k%'





























