Bangladesh University Of Business & Technology



LAB REPORT

Course Code : CSE-207

Course Title : Database Systems

Experiment Name : Create database & table, Insert data in table and solving the questions from the tables using xampp software.

Experiment No. : 02

Intake : 45

Section : 02

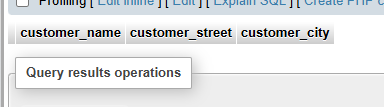
Program : B.sc. Engg in CSE

SUBMITTED BY : Shamsi Juma(068)

SUBMITTED TO : Zobaer Zihad (Lecturer, Department of CSE, BUBT)

Create customer table:

CREATE TABLE customer\_table ( customer\_name varchar(250), customer\_street varchar(250), customer\_city varchar(250), PRIMARY KEY (customer\_name ) );



Insert value for customer\_table:

INSERT INTO customer\_table VALUES

('Adams', 'Spring', 'Pittsfield'),

('Brooks', 'Senator', 'Brooklyn'),

('Curry', 'North', 'Rye'),

('Glenn', 'Sand Hill', 'Woodside'),

('Green', 'Walnut', 'Stamford'),

('Hayes', 'Main', 'Harrison'),

('Johnson', 'Alma', 'Palo Alto'),

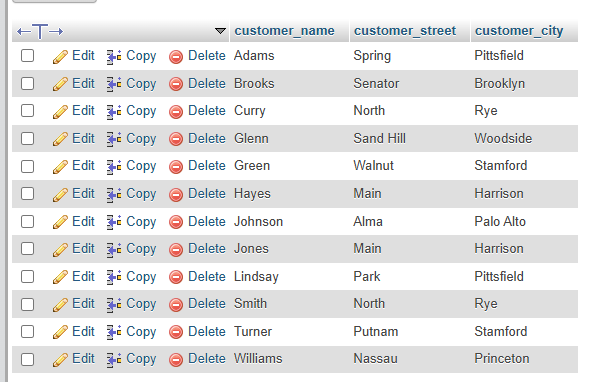
('Jones', 'Main', 'Harrison'),

('Lindsay', 'Park', 'Pittsfield'),

('Smith', 'North', 'Rye'),

('Turner', 'Putnam', 'Stamford'),

('Williams', 'Nassau', 'Princeton');



Create loan\_table:

CREATE TABLE loan\_table ( loan\_number varchar(250), branch\_name varchar(250), amount INT );

And Insert value:

INSERT INTO loan\_table VALUES

('L-11', 'Round Hill', 900),

('L-14', 'Downtown', 1500),

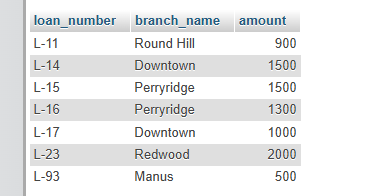
('L-15', 'Perryridge', 1500),

('L-16', 'Perryridge', 1300),

('L-17', 'Downtown', 1000),

('L-23', 'Redwood', 2000),

('L-93', 'Manus', 500);



CREATE TABLE borrow\_table ( customer\_name varchar(250), loan\_number varchar(250), PRIMARY KEY (customer\_name, loan\_number),FOREIGN KEY (customer\_name) REFERENCES customer\_table(customer\_name), FOREIGN KEY (loan\_number) REFERENCES loan\_table(loan\_number) );

INSERT INTO borrow\_table VALUES

('Adams', 'L-16'),

('Curry', 'L-93'),

('Hayes', 'L-15'),

('Johnson', 'L-14'),

('Jones', 'L-17'),

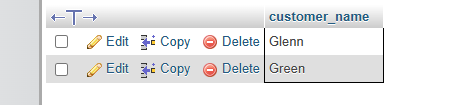
('Smith', 'L-11'),

('Smith', 'L-23'),

('Williams', 'L-17');

Q:1: Find the names of all customers whose name start with ”G”.

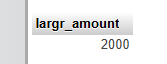
SELECT customer\_name from customer\_table where customer\_name LIKE 'G%';



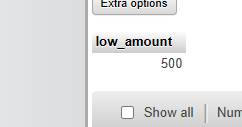
Q.2. Find the largest , minimum and average loan amount in the

“Loan” relation.

Code: SELECT MAX(amount)AS largr\_amount FROM loan\_table;



SELECT MIN(amount)AS low\_amount FROM loan\_table;

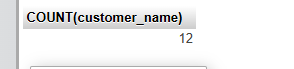


SELECT AVG(amount)AS average\_amount FROM loan\_table;



Q.3. Find the total number of customer from “Customer” relation.

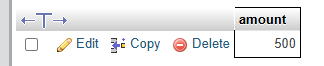
SELECT COUNT (customer\_name) from customer\_table;



Q4. Find the loan number of those loans with loan amounts between

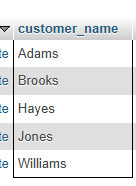
400 and 800.

SELECT amount FROM loan\_table WHERE amount BETWEEN 400 and 800;



q.5. Find the names of all customers whose name ends with ”s”.

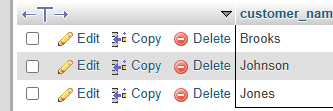
SELECT \* FROM customer\_table WHERE customer\_name LIKE '%S';



q.6. Find the names of all customers whose name has a “o” in 2nd

position.

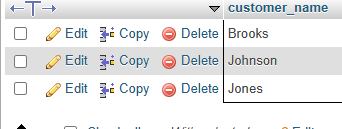
SELECT \* FROM customer\_table WHERE customer\_name LIKE '\_%O%';



q.7. Find the names of all customers whose name has a “o” in any

position except 1st and last letter.

SELECT \* FROM customer\_table WHERE customer\_name LIKE '\_%O%\_';



q.8. Find the length of the name of all customers from “Customer”

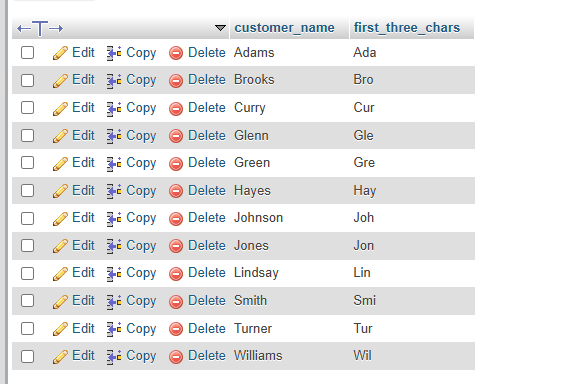
realtion.

SELECT customer\_name,LENGTH(customer\_name)AS name\_length FROM customer\_table;



q.9. Find 1st three characters of each customer name from “customer” relation.

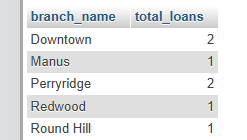
SELECT customer\_name,SUBSTRING(customer\_name,1,3)AS first\_three\_chars FROM customer\_table;



10. Find the total no. of loans from “Loan” relation from each

branch.

SELECT branch\_name,COUNT(loan\_number)AS total\_loans FROM loan-table GROUP BY branch\_name;



11.

Find the 2nd letter of customer\_city for the branch\_name

“Downtown”.

SELECT SUBSTRING(customer\_city 2,1) AS second\_letter

FROM customer\_table

WHERE customer\_name IN(

SELECT customer\_name

FROM borrow\_table

WHERE loan\_number IN(

SELECT loan\_number

FROM loan\_table

WHEREbranch\_name='Downtown'

)

);