Bangladesh University of Business and Technology



LAB REPORT

Experiment Date:

Experiment No : 02

Course Title : Database System

Course Code : CSE 208

Experiment Name:

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Program: B.Sc. in CSE

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Date of Submission:

Q1.Find the names of all customers whose name start with "G".

Ans:-

Code:- SELECT customer_name FROM customer_relation WHERE customer_name LIKE 'G%'; Output:-



Q2. Find the largest, minimum and average loan amount in the "Loan" relation.

Ans:-

Code:- SELECT

MAX(amount) AS largest_loan, MIN(amount) AS minimum_loan, AVG(amount) AS average_loan

FROM

loan_relation;

Output:-

Extra options

largest_loan	minimum_loan	average_loan
2000	500	1242.8571

Q3. Find the total number of customer from "Customer" relation.

Ans:-

Code:- SELECT COUNT(*) AS total customers FROM customer relation;

Output:-



Q4. Find the loan number of those loans with loan amounts between 400 and 800.

Ans:-

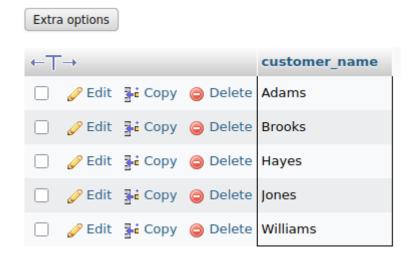
Code:- SELECT loan_number FROM loan_relation WHERE amount BETWEEN 400 AND 800; **Output**:-



Q5. Find the names of all customers whose name ends with "s".

Ans:

Code:SELECT customer_name FROM customer_relation WHERE customer_name LIKE '%s'; **Output:**



Q6. Find the names of all customers whose name has a "o" in 2nd position.

Ans

Code:SELECT customer_name FROM customer_relation WHERE customer_name LIKE '_o%'; **Output:**



Q7. Find the names of all customers whose name has a "o" in any position except 1st and last letter.

Ans:

Code:SELECT customer_name FROM customer_relation WHERE customer_name LIKE '_%0%_' AND customer_name NOT LIKE '0%' AND customer_name NOT LIKE '%0'; **Output:**

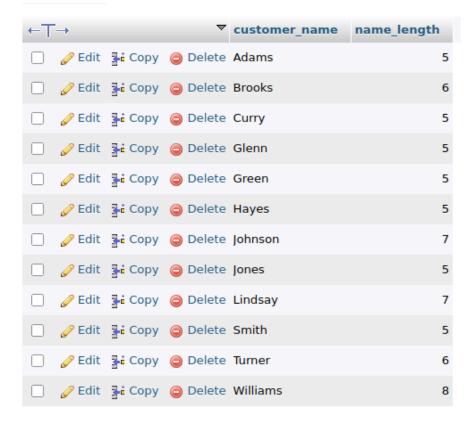


Q8. Find the length of the name of all customers from "Customer" relation.

Ans:

Code:SELECT customer_name, LENGTH(customer_name) AS name_length FROM customer_relation;

Output:



Q9. Find the first three characters of each customer name from "customer" relation. Ans:

Code:SELECT customer_name, LEFT(customer_name, 3) AS first_three_chars FROM customer_relation;

Output:

←T	·		~	customer_name	first_three_chars
	<i></i> € Edit	≩ сору	Delete	Adams	Ada
	<i></i> € Edit	≩	Delete	Brooks	Bro
	<i></i> € Edit	≩ сору	Delete	Curry	Cur
	<i></i> € Edit	≩ € Copy	Delete	Glenn	Gle
	<i></i> € Edit	≩- Сору	Delete	Green	Gre
	<i></i> € Edit	≩	Delete	Hayes	Нау
	<i></i> € Edit	≩	Delete	Johnson	Joh
	<i></i> € Edit	≩	Delete	Jones	Jon
	<i></i> € Edit	≩-i Copy	Delete	Lindsay	Lin
	<i>⊘</i> Edit	≩ ≟ Copy	Delete	Smith	Smi
	<i>⊘</i> Edit	≩- Сору	Delete	Turner	Tur
	<i></i> € Edit	≩ € Copy	Delete	Williams	Wil

Q10. Find the total number of loans from "Loan" relation from each branch. Ans:

Code:SELECT branch_name, COUNT(*) AS total_loans FROM loan_relation GROUP BY branch_name;

Output:

branch_name	total_loans
Downtown	2
Mianus	1
Perryrdge	1
Perryridge	1
Redwood	1
Round Hill	1

Q11. Find the 2nd letter of customer_city for the branch Downtown.

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Ans:
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Code:SELECT

SUBSTRING(cr.cutomer_city, 2, 1) AS second_letter_city

FROM

customer_relation cr

JOIN

borrower_relation br ON cr.customer_name = br.customer_name

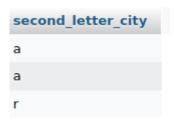
JOIN

loan_relation lr ON br.loan_number = lr.loan_number

WHERE

lr.branch_name = 'Downtown';
```

Output:



Q12. Retrieve loan details for customers whose names contain "it" anywhere.

Ans:

Code:SELECT Ir.* FROM loan_relation Ir JOIN borrower_relation br ON Ir.loan_number = br.loan_number JOIN customer_relation cr ON br.customer_name = cr.customer_name WHERE cr.customer_name LIKE '%it%';

Output:

loan_number	branch_name	amount
L-11	Round Hill	900
L-23	Redwood	2000