Bangladesh University of Business and Technology

LAB REPORT

Experiment Date :

Experiment No : **02**

Course Title : Database System

Course Code : CSE 208

Experiment Name: Bank

Submitted By:

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Intake : 47

Section : 2

Program : B.Sc. in CSE

Submitted To:

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(Lecturer)

Dept. of CSE

Bangladesh University of Business & Technology

Date of Submission :

Q1. Find the names of all branches in the "loan" relation.
Ans:
Code - SELECT DISTINCT branch_name FROM loan_relation;
Output:-

←T→				branch_name
☐	🖉 Edit	⧉ Copy	⊖ Delete	Round Hill
☐	🖉 Edit	⧉ Copy	⊖ Delete	Downtown
☐	🖉 Edit	⧉ Copy	⊖ Delete	Perryrdge
☐	🖉 Edit	⧉ Copy	⊖ Delete	Perryridge
☐	🖉 Edit	⧉ Copy	⊖ Delete	Redwood
☐	🖉 Edit	⧉ Copy	⊖ Delete	Mianus

Extra options

↰ ☐ Check all With selected: 🖉 Edit

Q2. Find all loan numbers for loans made at the "Perryridge" branch with loan amounts greater than 300.
Ans:
Code - SELECT amount FROM loan_relation WHERE branch_name = 'Perryridge' AND amount > 300;
Output:-

←T→				amount
☐	🖉 Edit	⧉ Copy	⊖ Delete	1500
☐	🖉 Edit	⧉ Copy	⊖ Delete	1300

↰ ☐ Check all With selected: 🖉 Edit

☐ Show all | Number of rows: 25 ▾ Fil

Q3. Find all the loan numbers and customer name who has loan either "Perryridge" branch or "Downtown" branch
Ans:-
Code:- SELECT l.loan_number, c.customer_name FROM loan_relation l
JOIN borrower_relation b ON l.loan_number = b.loan_number
JOIN customer_relation c ON b.customer_name = c.customer_name
WHERE l.branch_name IN ('Perryridge', 'Downtown');
Output:-

loan_number	customer_name
L-16	Adams
L-15	Hayes
L-14	Johnson
L-17	Jones
L-17	Williams

Q4. Find all the loan numbers of the customer who has loan either "Perryridge" branch or "Downtown" branch or "Mianus" branch.
Ans:-
Code:-SELECT l.loan_number FROM loan_relation AS l
JOIN borrower_relation AS b ON l.loan_number = b.loan_number
JOIN customer_relation AS c ON b.customer_name = c.customer_name
WHERE l.branch_name IN ("Perryridge", "Downtown","Mianus");

Output-

loan_number
L-16
L-93
L-15
L-14
L-17
L-17

Q5.Find the names of all customers who are not from "Stamford" of "Princeton" or "Harrison" City.
Ans:-
Code:-SELECT customer_name FROM customer_relation
WHERE customer_city NOT IN ("Stamford","Princeton","Harrison");

Output:-

←T→				customer_name
☐	✏ Edit	⊞ Copy	⊖ Delete	Adams
☐	✏ Edit	⊞ Copy	⊖ Delete	Brooks
☐	✏ Edit	⊞ Copy	⊖ Delete	Curry
☐	✏ Edit	⊞ Copy	⊖ Delete	Glenn
☐	✏ Edit	⊞ Copy	⊖ Delete	Johnson
☐	✏ Edit	⊞ Copy	⊖ Delete	Lindsay
☐	✏ Edit	⊞ Copy	⊖ Delete	Smith

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Q6. Find the street and city of the customer whose loan amount is greater than 1200.
Ans:-
Code:-SELECT c.customer_street, c.customer_city
FROM loan_relation AS l
JOIN borrower_relation AS b
   ON l.loan_number = b.loan_number
JOIN customer_relation AS c
   ON b.customer_name = c.customer_name
WHERE l.amount > 1200;

Output:-

customer_street	customer_city
Spring	Pittsfield
Main	Harrison
Alma	Palo Alto
North	Rye