

Green University of Bangladesh (GUB) Dept. of Computer Science and Engineering



Course Name:

CSE 210: Database System Lab

Project Name:

Banking Database Management System

Submitted to:

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Banking Database Management System

□ Introduction:

This Project Is About Banking Database Management System. Sub Queries are attached with screenshot for better understanding.

☐ Tools:

• MySQL Workbench.

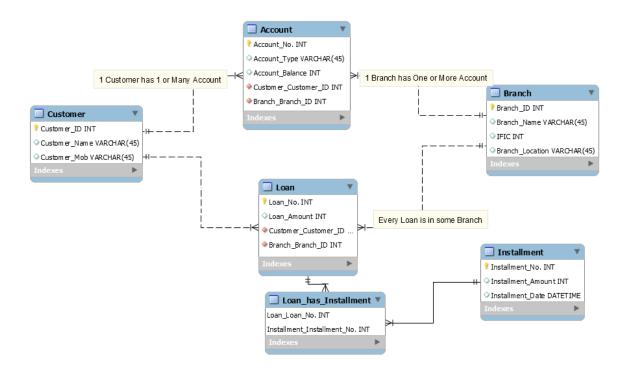
☐ Feature:

- DDL
- DML
- View
- Procedural Language.

■ Language Used:

• PL/SQL. (It is a high-performance and highly integrated database language.)

☐ ER Diagram:

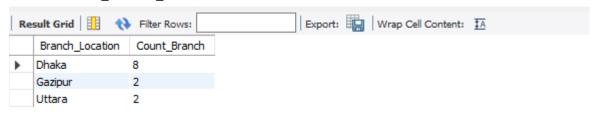


■ Views:

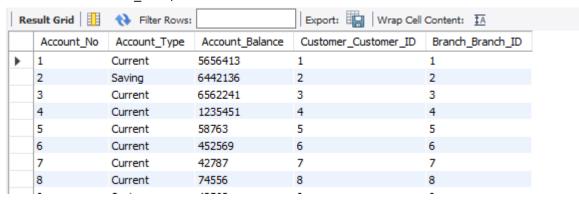
select *from Customer_ID_Name;



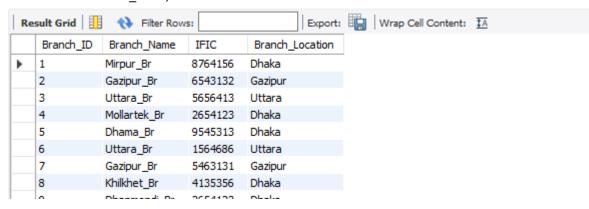
select *from br_location_count;



select *from Account_View;



select *from Branch View;

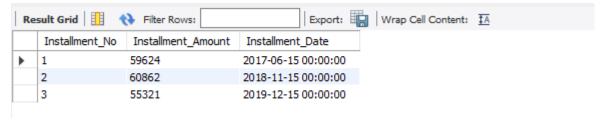


□ Views:

select *from Customer_View;



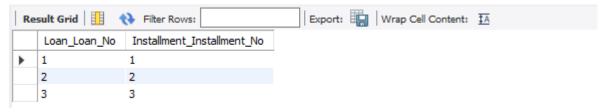
select *from Installment_View;



select *from Loan_View;



select *from loan_has_installment_View;

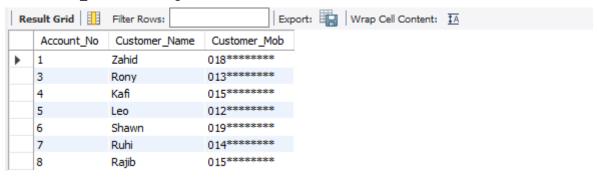


Procedural Function Call:

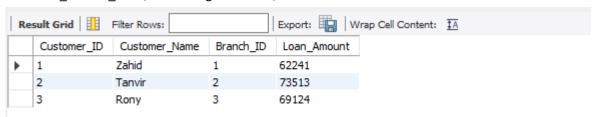
call Saving_Cust; -- showing Customers' info who have Saving Accounts.



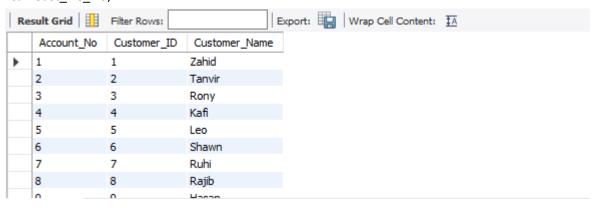
call Current_Cust; -- showing Customers' info who have Current Accounts.



call Cust Branch Loan; -- showing Customer, Branch and Loan info.

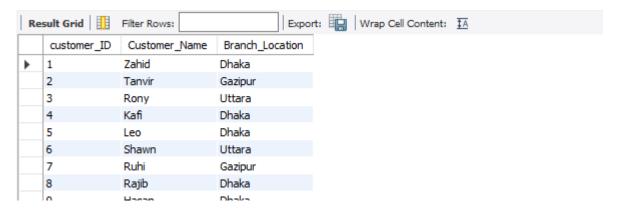


call Cust_AC_No;

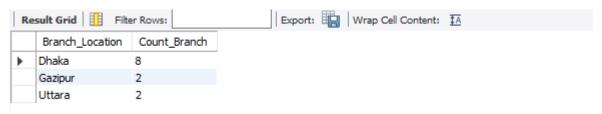


□ Procedural Function Call:

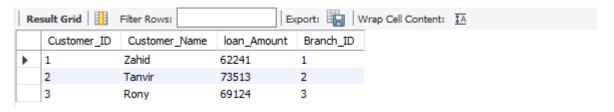
call Cust_Br_Location; -- showing Customers Branch info.



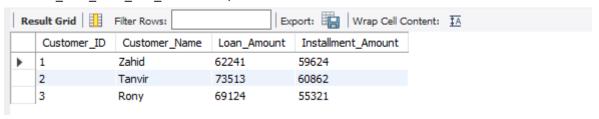
call Branch_Count;



call Get Cust Loan and Branch;



call Get_Cust_Loan_and_installment;

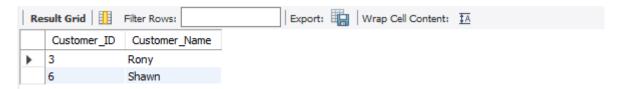


Procedural Function Call:

call Get_Cust_LoanAmount;

	Customer_ID	Customer_Name	Loan_Amount
•	1	Zahid	62241
	2	Tanvir	73513
	3	Rony	69124

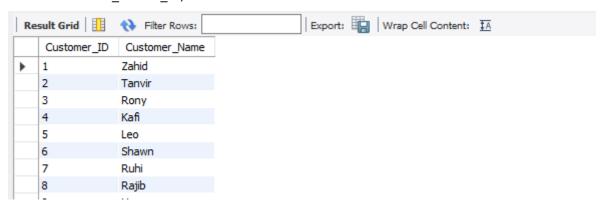
call GetCust_ID_Name('Uttara_Br');



□ Complex Queries:

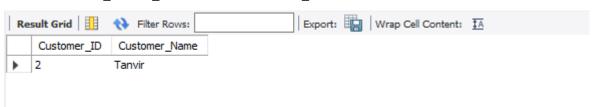
-- Customer ID, and Name from 3 tables:

select Customer.Customer_ID, Customer.Customer_Name from Customer join account or Customer.Customer_ID=Account.Customer_Customer_ID join branch on branch.Branch_ID = Account.Branch Branch ID;



-- Customer id and name of branch 2:

select Customer.Customer_ID, Customer.Customer_Name from Customer join account on Customer.Customer_ID=Account.Customer_Customer_ID join branch on branch.Branch_ID = Account.Branch_ID where branch.Branch_ID=2;



□ Complex Queries:

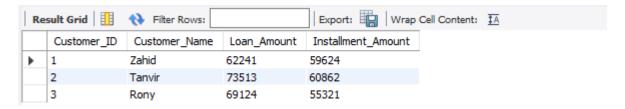
-- List of Customer who has taken loan and their amount:

select customer.Customer_ID, customer.Customer_Name, loan.Loan_Amount from customer join loan on Customer.Customer_ID=loan.Customer_Customer_ID;



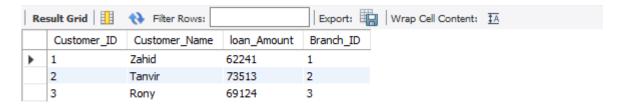
-- List of Customers and their loan. Besides their installment amount:

select customer.Customer_ID, customer.Customer_Name, loan.Loan_Amount, installment.Installment_Amount from customer join loan on Customer.Customer_ID=loan.Customer_Customer_ID join loan_has_installment on loan_has_installment.Loan_Loan_No=Loan.Loan_No join Installment on Installment_No=loan_has_installment.Installment_Installment_No;



-- Name of the Customers and id and their loan and from which branch do they take the loan:

select customer.Customer_ID, Customer.Customer_Name, loan.loan_Amount, branch.Branch_ID from customer join loan on Customer.Customer_ID=loan.Customer_Customer_ID join branch on loan.Branch_ID=branch.Branch_ID;



☐ Complex Queries:

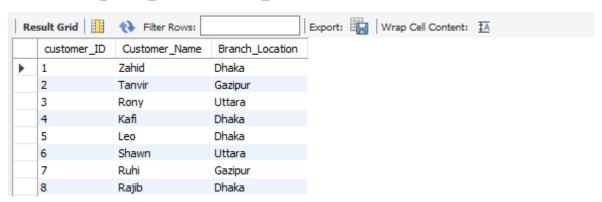
-- Number of branch in a city:

SELECT Branch_Location, count(*) AS Count_Branch FROM branch Group By Branch_Location;



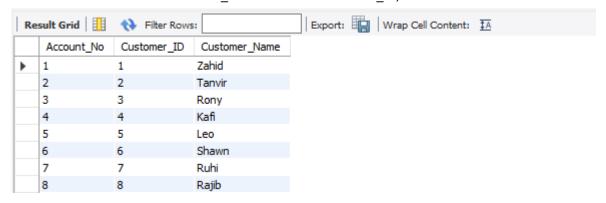
-- Customer info from their branch:

Select customer_customer_ID, Customer_Name, branch_Branch_Location from customer join account on customer_customer_ID=account.Customer_Customer_ID join branch on account.Branch ID=branch.Branch ID;



-- Customers account no.:

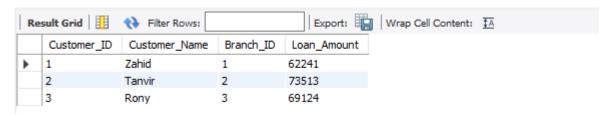
SELECT account.Account_No, customer.Customer_ID, customer.Customer_Name FROM account INNER JOIN customer ON account.Account_No = customer.Customer_ID;



■ Complex Queries:

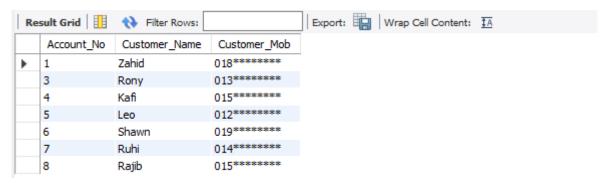
-- Customers id branch id and loan amount:

SELECT customer.Customer_ID, customer.Customer_Name, branch.Branch_ID, loan.Loan_Amount FROM ((loan INNER JOIN customer ON loan.Customer_Customer_ID=customer.Customer_ID) INNER JOIN branch ON loan.Branch_ID=branch.Branch_ID);



-- Customer info whose account type is Current:

SELECT account.Account_No, customer_Customer_Name, customer.Customer_Mob FROM account,
customer WHERE account.Customer_Customer_ID = customer.Customer_ID AND account.Account_Type
= 'Current';



-- Customer info whose account type is Saving:

SELECT account.Account_No, customer.Customer_Name, customer.Customer_Mob FROM account, customer WHERE account.Customer_Customer_ID = customer.Customer_ID AND account.Account_Type = 'Saving';

