

Database management system project

(BANK MANAGEMENT SYSTEM)

Ву

Ahan Bandyopadhyay (211210008)

Gaurav Singh (211210024)

Kanha Madan (211210031)

CONTENTS

- **1.INTRODUCTION**
- 2. CASE STUDY
- 3. REQUIREMENT ANALYSIS
- 4. HARDWARE AND SOFTWARE REQUIREMENTS
- 5. ER DIAGRAM
- 6. ER-> R MAPPING
- 7. SQL QUERIES
- **8. DB CONNECTIVITY**
- 9. FRONT END
- 10.BIBLOGRAPHY

PROJECT

- 1 INTRODUCTION:
- **1.1 PROJECT OBJECTIVE**
- **1.2 PROJECT BENEFITS**
- **1.3 PROJECT SCOPE**

- The bank management system is a set of essential tools and processes that allow banks and their credit institutions to carry out their functions.
- The components of the bank management system may differ depending on the bank, but generally, the system includes core banking to manage basic transactions, loans, mortgages, and payments accessible via ATM, mobile banking, and branches.

Database Management is the core of modern data, as handling and managing data is the key to making exponential progress in today's world.

Here, the undersigned students of 2nd year:

- 1. AHAN BANDYOPADHYAY (211210008)
- 2. GAURAV SINGH (211210024)
- 3. KANHA MADAN (211210031)

Have completed a project on the Database of the Bank Management System which cites all the information.

1.1 Project objective

- . To allow only authorized user to access various function and processed available in the system.
- . Locate any A/C wanted by the user.
- . Reduced clerical work as most of the work done by computer.
- . Provide greater speed & reduced time consumption.

1.2 Project benefits

and commerce.

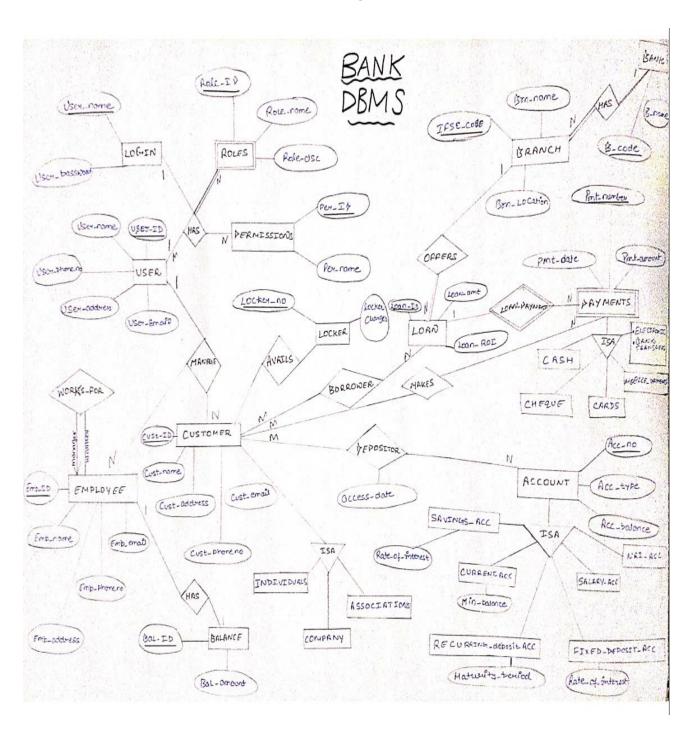
1.3 Project scope

Banking activities are considered to be the life blood of national economy. Without banking services, trading and business activities cannot be carried on smoothly. Banks are the distributors and protectors of liquid capital which is of vital significance to a developing country. Efficient administration of the banking system helps in the economic Growth of the nation. Banking is useful to trade

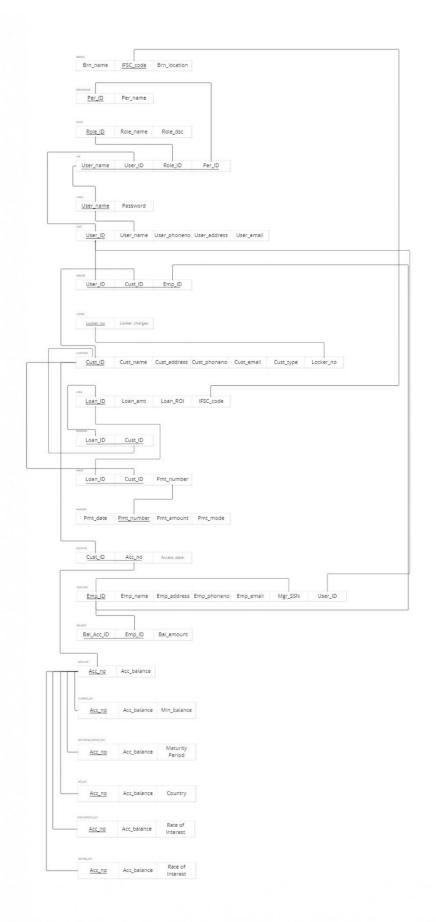
Software requirements

In the development of a project the selection of an appropriate DBMS Software and a platform is of primary importance. With many software options available a developer has to consider the various features and functionalities and ease of handling the software, keeping an account of such things we decided to use Bootstrap Studio for designing the front-end, the front-end has been developed by the use of HTML, CSS and JS. MySQL has been used as a back-end query language. PHP has been chosen as a scripting language. The server chosen is the localhost which would be hosting the website on the machine itself.

ER DIAGRAM



MAPPING ER -> MODEL

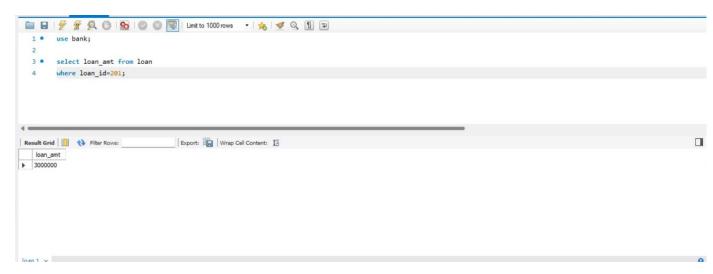


SQL queries

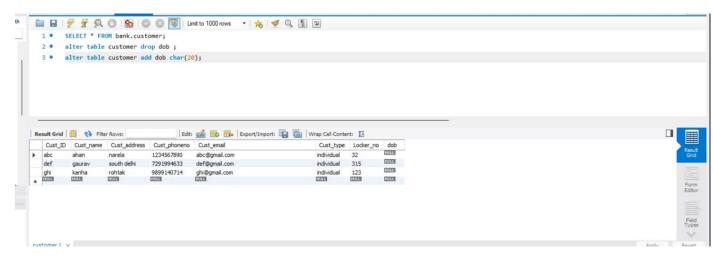
QUERIES TO CREATE THE RELATIONS AND POPULATING THE DATABASE:

Basic queries

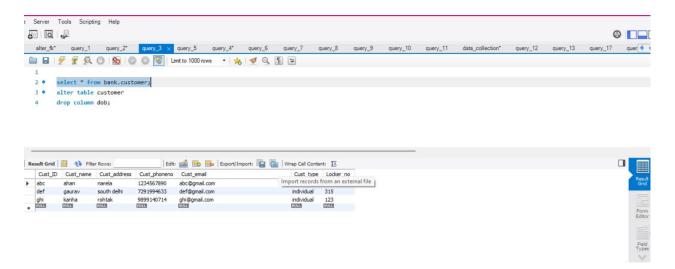
Question 1: Retrieve loan details where loan id = 201



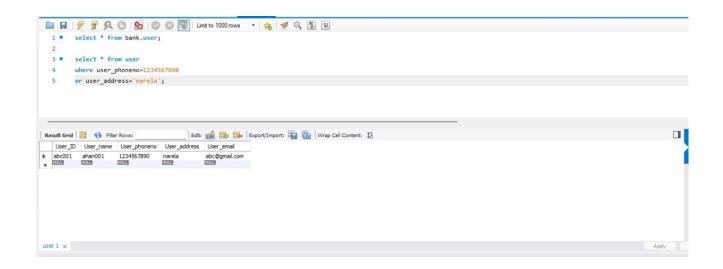
Question 2: Add attribute date of birth (dob) for customer



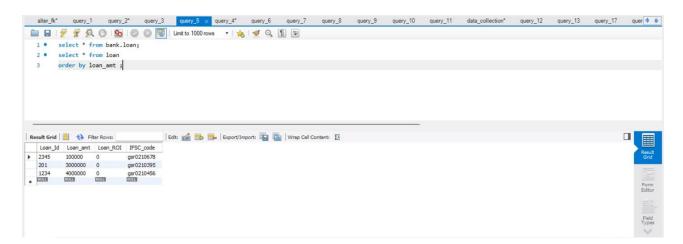
Question 3: Drop attribute dob for customer



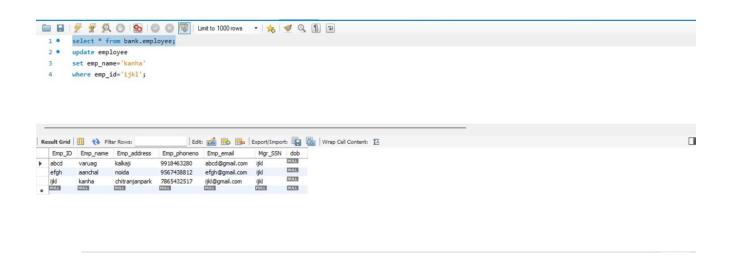
Question 4: Retrieve user details for user having mobile no. = 1234567890 and address = 'Narela'



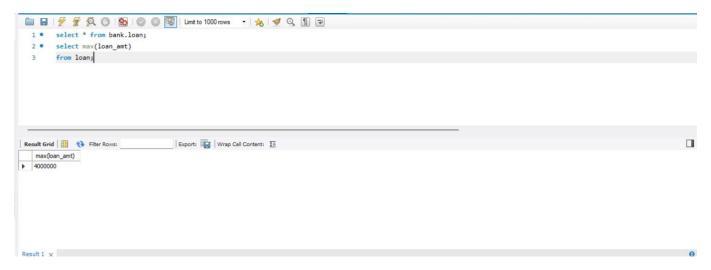
Question 5: Retrieve loan details order by ascending loan amount



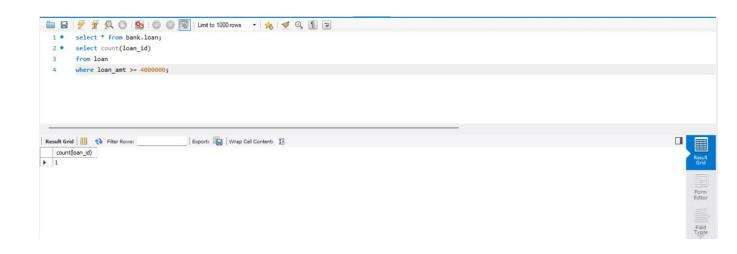
Question 6:Update name of employee having employee ID = 'ijkl'



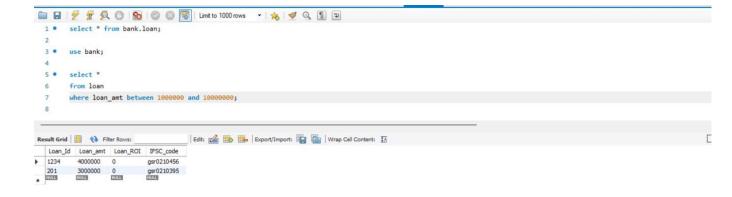
Question 7: Retrieve maximum amount of loan lend by any customer from bank



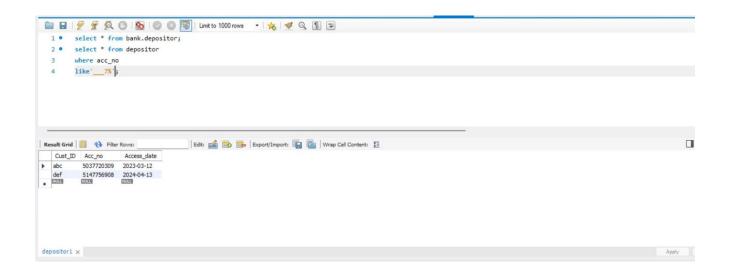
Question 8: Count the distinct users that have taken loan of and above 4000000



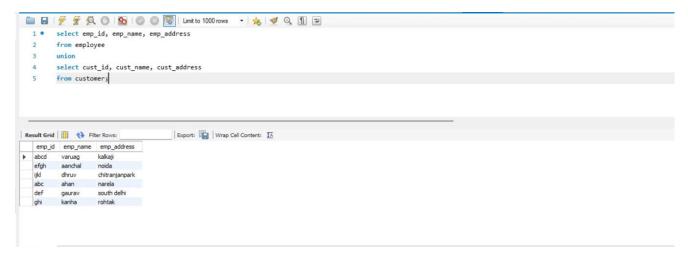
Question 9: Retrieve loan details of user who have lend a loan between 1000000 to 100000000



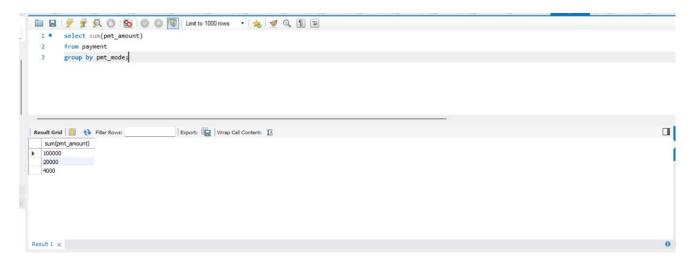
Question 10: Retrieve depositor details for user having 7 in their account no. anywhere



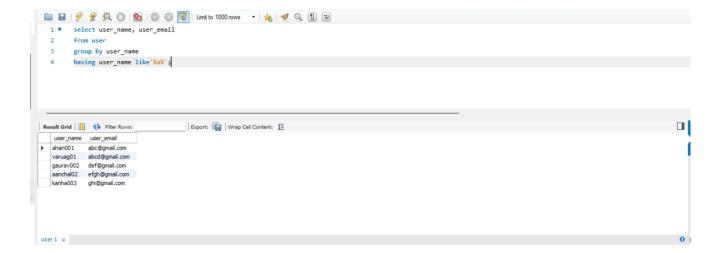
Question 11: Retrieve combine data of employee data and customer table as employee ID , employee names, employee address



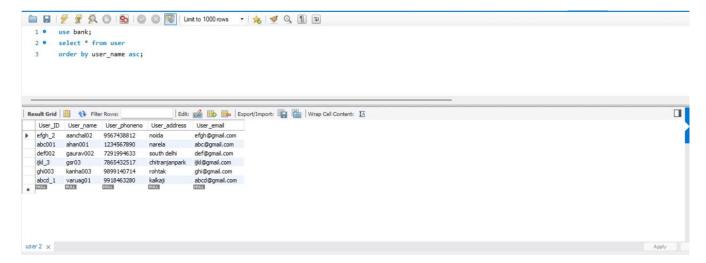
Question 12: Find total amount of payments performed in each payment mode



Question 13: Retrieve user details of user having 'a' in their name.

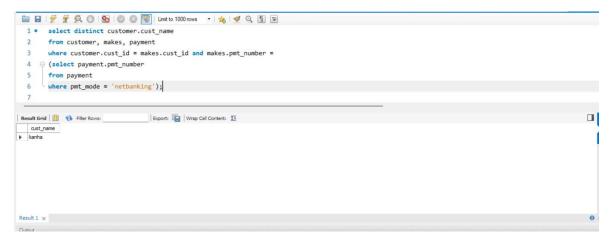


Question 14: Retrieve user data in ascending order of their names

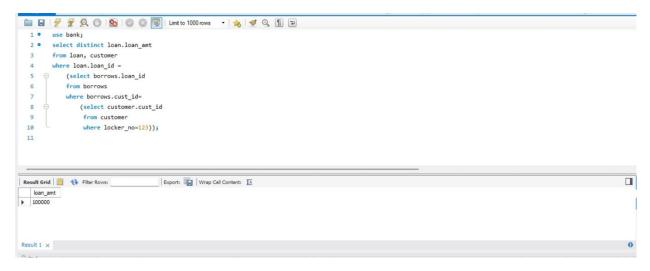


Advance queries

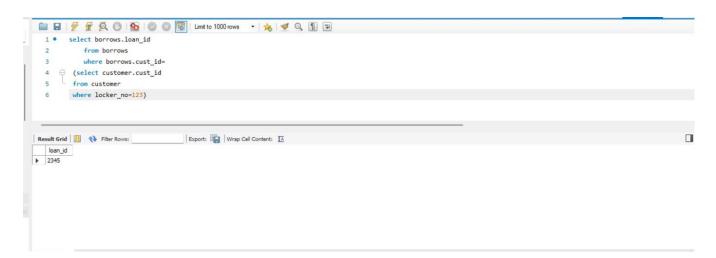
Question 15: Retrieve names of all customers who have performed payment via net banking



Question 16: retrieve loan amount taken by the customer having locker no. = 123

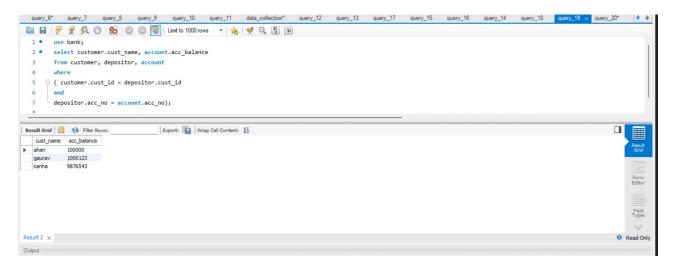


Question 17: Loan details of customer with locker no '123'



Question 18: Retrieve ID of all customers having account in bank. That are from 'Norway

Question 19: Show customer names with their account balance.



Question 20: Show account balance and account minimum balance limit for customer having id='ghi'.

