

MADHAV INSTITUTE OF TECHNOLOGY & SCIENCE, GWALIOR
(A Govt. Aided UGC Autonomous & NAAC Accredited Institute Affiliated to RGPV, Bhopal)



**Skill Based Mini Project Report
on
Banking Management System**

Submitted by:

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MADHAV INSTITUTE OF TECHNOLOGY & SCIENCE, GWALIOR

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CERTIFICATE

This is certified that **Sagar Sihare** (0901CA211052) has submitted the project report titled **Banking Management System** under the mentorship of **Dr. Parul Saxena** (Assistant Professor) as the skill based mini project in 1st year of Master of Computer Application in Computer Science and Engineering from Madhav Institute of Technology and Science, Gwalior.



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DECLARATION

I hereby declare that the work being presented in this report, as the requirement of soft skill based mini project in 1st year of Master of Computer Application in Computer Science and Engineering at Madhav Institute of Technology and Science, Gwalior is an authenticated and original record of my work under the mentorship of **Dr. Parul Saxena**, (Assistant Professor), Computer Science and Engineering.

I declare that I have not submitted the matter embodied in this report for the award of any degree or diploma anywhere else.



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ABSTRACT

The Bank Account Management System is an application for maintaining a person's account in a bank. In this project I tried to show the working of a banking account system and cover the basic functionality of a Bank Account Management System. To develop a project for solving financial applications of a customer in banking environment in order to nurture the needs of an end banking user by providing various ways to perform banking tasks.

Also to enable the user's work space to have additional functionalities which are not provided under a conventional banking project. The Bank Account Management System undertaken as a project is based on relevant technologies. The main aim of this project is to develop software for Bank Account Management System. This project has been developed to carry out the processes easily and quickly, which is not possible with the manual systems, which are overcome by this software.

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1.

Introduction

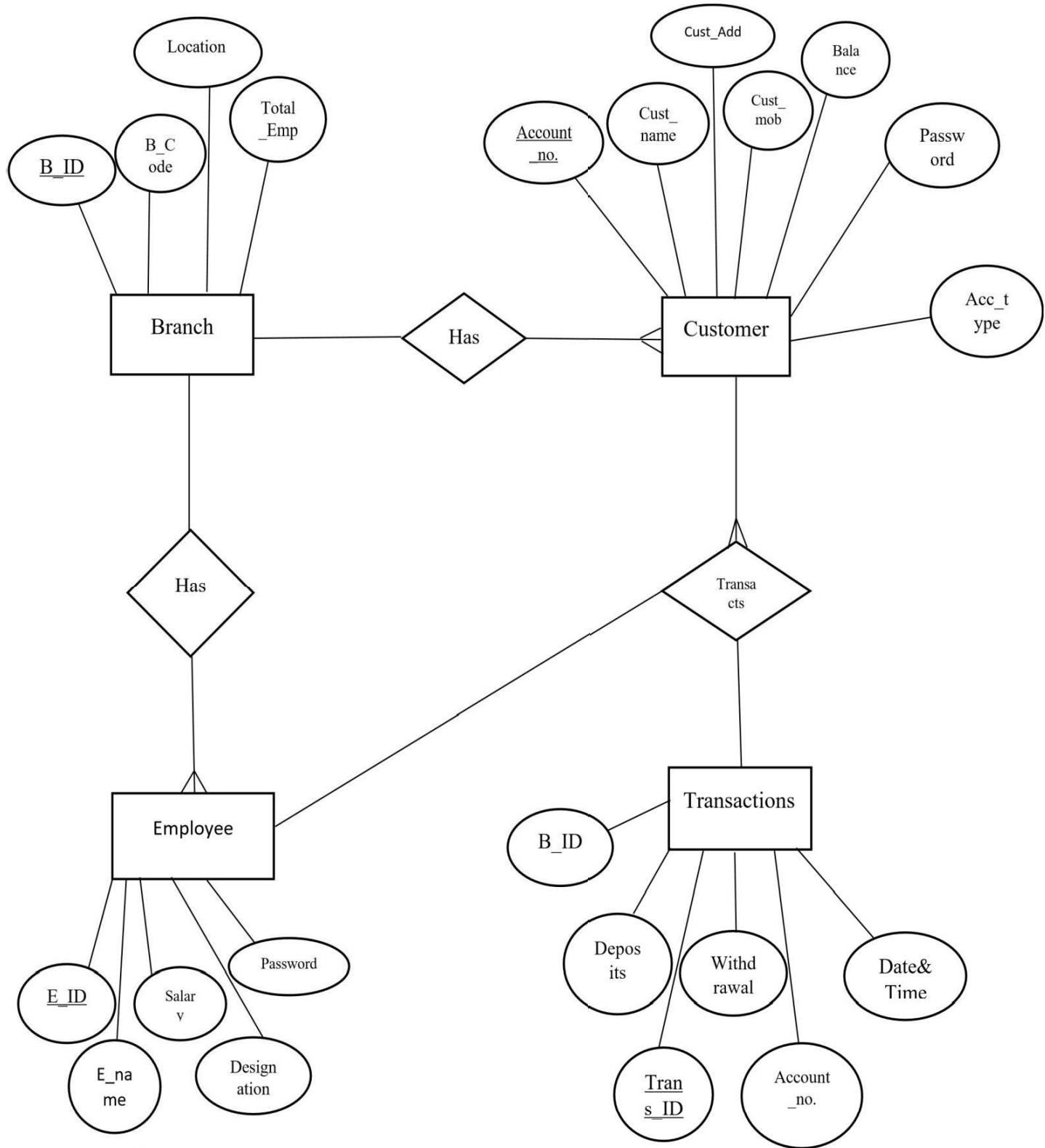
A bank is a financial institution which accepts deposits, pays interest on pre-defined rates, clears checks, makes loans, and often acts as intermediary in financial transactions. It also provides other financial services to its customers. As we can say banks play a vital role in helping people to make possible their daily transactions and running errands. Database management systems play a crucial role to keep track of customers and the activities(transactions) they do. Not only transactions they keep all the information of the customers, employees, branches, etc.

Hence DBMS comes in and manages all data related issues conveniently.

2. Problem Definition

Major problem in the banking systems apart from data security and smooth transactions is the problem of keeping the database updated per milisecond. Apart from normal data, the data in variety and complex nature of data is another problem. Since keeping in mind all the complexities and exceptions database management systems Provides required tools and operations to make things work smoothly and securely.

3. E-R Diagram



4. Table Description

Table : Branch

Description : To store the info. of a branch of the bank.

Fields	Data Type	Constraints
B_ID	Varchar(10)	Primary Key
B_Code	Varchar(10)	Not Null
Location	Varchar(50)	Null
Total_Emp	BigInt	Not Null

Table : Employee

Description : To store the info. of employees of the branch.

Fields	Data Type	Constraints
E_ID	Varchar(10)	Primary Key
E_Name	Text	Not Null
Salary	BigInt	Not Null
Designation	Varchar(10)	Not Null
Password	Varchar(20)	Not Null

Table : Customer**Description :** To store the info. of customers of the branch.

Fields	Data Type	Constraints
Account_no.	Varchar(20)	Primary Key
Cust_Name	Text	Not Null
Cust_Add	Varchar(30)	Not Null
Cust_Mob	BigInt	Not Null
Balance	BigInt	Not Null
Password	Varchar(15)	Not Null
Account_Type	Text	Not Null

Table : Transactions**Description :** To store the info. of transactions of the branch.

Fields	Data Type	Constraints
Trans_ID	Varchar(20)	Primary Key
Deposits	BigInt	Null
Withdrawal	BigInt	Null
B_ID	Varchar(10)	Not Null
Account_no.	Varchar(20)	Not Null
Date & Time	TimeStamp	Not Null

5. Sample Queries

Q.1 To find out all the branches with employees strength above 20.

Ans select B_ID from Branch where Total_Emp>20;

Q.2 To find out transactions from branch with ID = 06B and deposits are more than 10000.

Ans select Trans_ID from Transactions where B_ID = '06B' and Deposits > 10000;

Q.3 To find out employees whose salary ranges from 60000 to 100000.

Ans select E_ID,E_name from employees where salary BETWEEN 60000 AND 100000.

Q.4 To find out transaction id and customer name of the transaction made by account no. 987654321000.

Ans select trans_ID,cust_name from transactions natural join customer where account_no. = 987654321000.

Q.5 To find out branch code of the branch 06B.

Ans select B_code from branch where B_ID = '06B'

6. Conclusion

Banking management system is a virtualization of transactions in banking system. The banking system are used manual working but when we used online banking system it is totally virtualization process which avoid manual process and converts it in automatic process.

Further progress can be achieved by providing more functionality to the project like : If user can make a transaction in bank management system it is available in any were also user can link aadhar with account, change branch location easily.

Banking management system is saving the time with accuracy than manual systems.

7. Bibliography

1. <https://www.mysql.com/>
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