

BANK MANAGEMENT SYSTEM

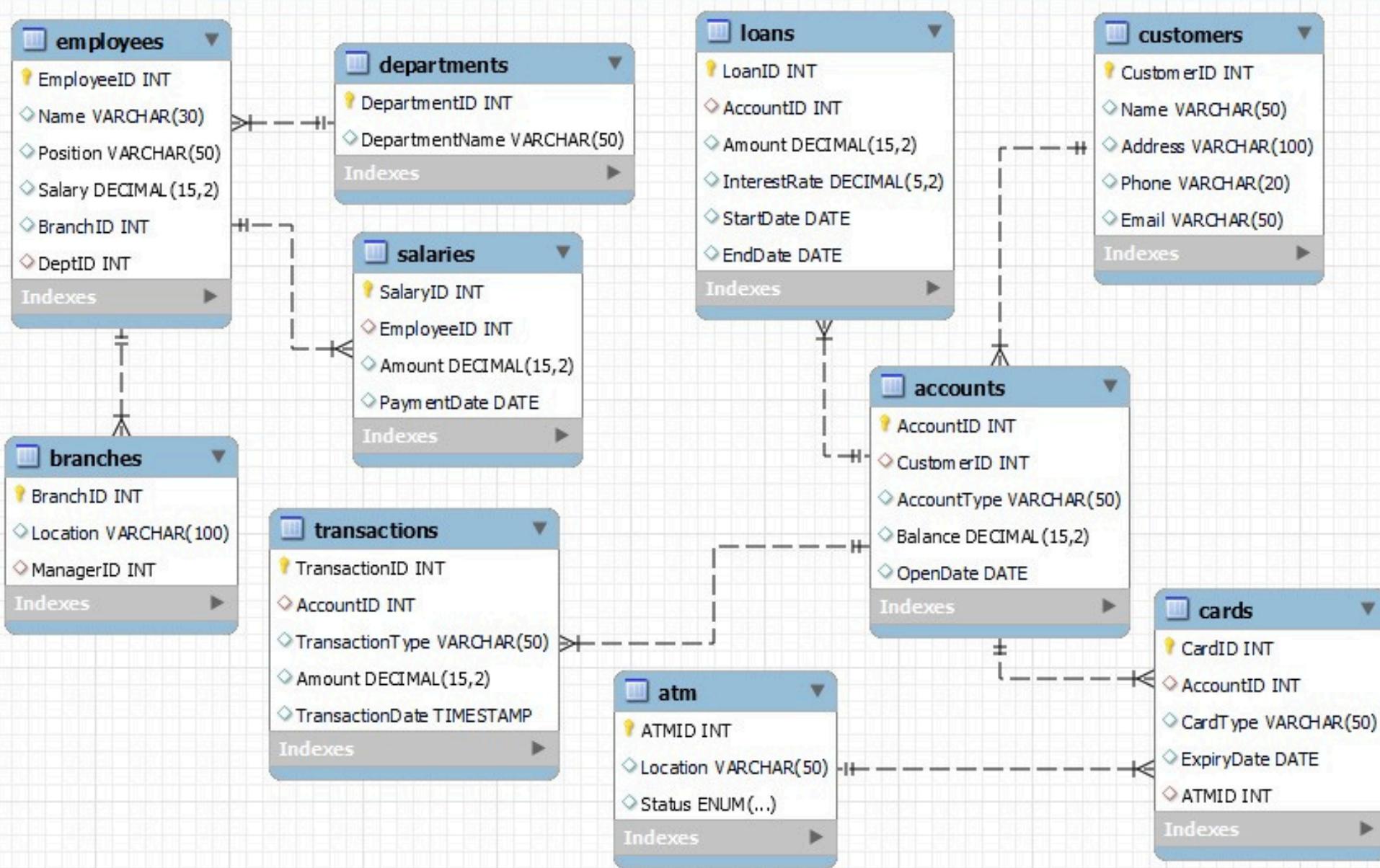
“Streamlining Banking
Operations for
Enhanced Efficiency.”

MUHAMMAD HUSSAIN BSE-23F-059
MUHAMMAD TAIMOOR BSE-23F-086
SOHAIB RAHEEM BSE-23F-075

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ER MODEL

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CONTRIBUTION

MUHAMMAD HUSSAIN

GROUP LEADER

**He had created 4 tables with data insertion
He is the owner of our project on GITHUB.
He made ER model of project.**

MUHAMMAD TAIMOOR

GROUP ADVISOR

**He had created 3 tables with data insertion.
He discussed and create the structure of project.**

SØHAIB RAHEEM

GROUP MEMBER

**Created 3 tables with data insertion.
He made presentation.
Gather all the data regarding project.**



TABLES

DepartmentID	DepartmentName
1	Finance
2	Customer Service
3	IT Specialist
4	HR
NULL	NULL

	EmployeeID	Name	Position	Salary	BranchID	DeptID
▶	1	Hussain	Manager	90000.00	1	1
	2	Taimoor	Clerk	45000.00	2	2
	3	Sohaib	IT Specialist	60000.00	3	3
	4	Muskan	HR Manager	100000.00	4	4
*	NULL	NULL	NULL	NULL	NULL	NULL

	BranchID	Location	ManagerID
▶	1	Karachi	1
	2	Lahore	2
	3	Islamabad	3
*	NULL	NULL	NULL

	SalaryID	EmployeeID	Amount	PaymentDate
▶	1	1	90000.00	2024-06-01
	2	2	45000.00	2024-06-01
	3	3	60000.00	2024-06-01
	4	4	100000.00	2024-06-01
*	NULL	NULL	NULL	NULL

AccountID	CustomerID	AccountType	Balance	OpenDate
1	1	Savings	10000.00	2023-07-15
2	2	Checking	5000.00	2024-03-07
3	3	Current	5000.00	2021-04-09
NULL	NULL	NULL	NULL	NULL

	CardID	AccountID	CardType	ExpiryDate	ATMID
▶	1	NULL	Debit	2026-01-01	NULL
	2	NULL	Credit	2026-02-01	NULL
	3	NULL	Debit	2026-02-01	NULL
*	NULL	NULL	NULL	NULL	NULL

	ATMID	Location	Status
▶	1	Malir,Krachi	Inactive
	2	Defence,Karachi	Active
	3	Defence,Lahore	Inactive
	4	Bahria Town,Karachi	Active
	5	Main street,Islamabad	Active
	6	Korangi,Karachi	Inactive
*	NULL	NULL	NULL

	TransactionID	AccountID	TransactionType	Amount	TransactionDate
▶	1	3	Deposit	2000.00	2024-05-27 10:00:00
	2	2	Withdrawal	1000.00	2024-05-28 12:00:00
*	NULL	NULL	NULL	NULL	NULL

	LoanID	AccountID	Amount	InterestRate	StartDate	EndDate
▶	1	1	15000.00	3.50	2023-04-01	2028-04-01
	2	2	20000.00	4.00	2023-05-01	2029-05-01
*	NULL	NULL	NULL	NULL	NULL	NULL

	CustomerID	Name	Address	Phone	Email
▶	1	Haleema Sultan	Defence Phase 8	03003512478	Haleema@gmail.com
	2	Imran khan	Bani Gala	03162547891	Khan@gmail.com
	3	Hafsa	Commander City	03156214793	Hafsa@gmail.com
*	NULL	NULL	NULL	NULL	NULL

-- query to find employee working in dept

```
SELECT e.Name, e.Position, d.DepartmentName  
FROM Employees e  
JOIN Departments d ON e.DeptID = d.DepartmentID  
WHERE d.DepartmentName = 'HR';
```

	Name	Position	DepartmentName
▶	Muskan	HR Manager	HR

```
SELECT b.Location, SUM(a.Balance) AS TotalBalance  
FROM Branches b  
JOIN Employees e ON b.BranchID = e.BranchID  
JOIN Accounts a ON e.EmployeeID = b.ManagerID  
WHERE b.Location = 'Lahore';
```

	Location	TotalBalance
▶	Lahore	20000.00

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