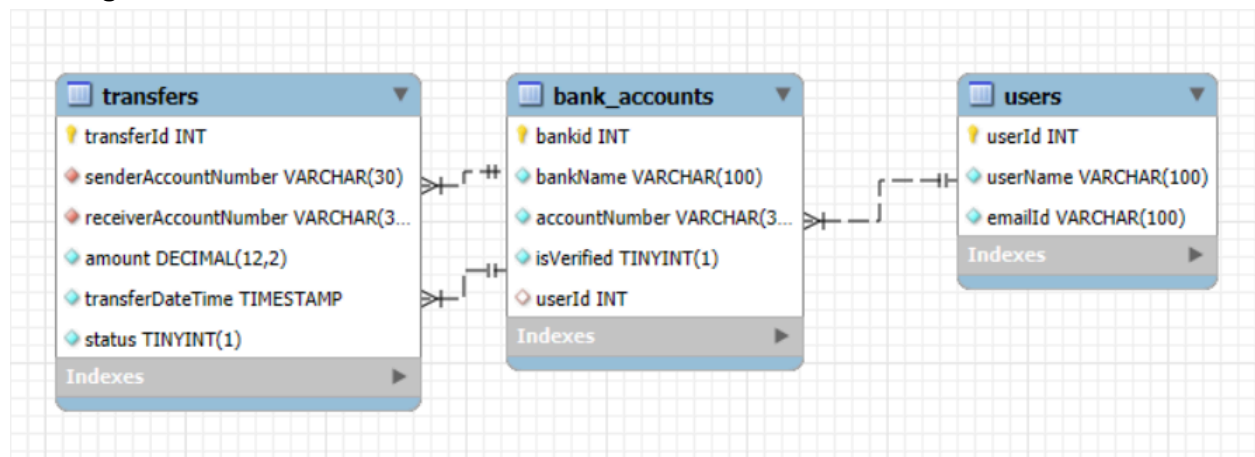


ER Diagram:



CODE:--

"users" table which represents all users

```
CREATE TABLE users (  
    userId INT PRIMARY KEY,  
    userName VARCHAR(100) NOT NULL,  
    emailId VARCHAR(100) NOT NULL  
);
```

-- "bank_accounts" which represents all the bank accounts

```
CREATE TABLE bank_accounts (  
    bankid INT PRIMARY KEY,  
    bankName VARCHAR(100) NOT NULL,  
    accountNumber VARCHAR(30) UNIQUE NOT NULL,  
    isVerified BOOLEAN NOT NULL,  
    userId INT,  
    FOREIGN KEY (userId) REFERENCES users(userId)  
);
```

-- "transfers" table which represents all the transfers made

```
CREATE TABLE transfers (  
    transferId INT PRIMARY KEY,  
    senderAccountNumber VARCHAR(30) NOT NULL,  
    receiverAccountNumber VARCHAR(30) NOT NULL,  
    amount DECIMAL(12,2) NOT NULL,  
    transferDateTime TIMESTAMP NOT NULL,  
    status BOOLEAN NOT NULL,  
    FOREIGN KEY (senderAccountNumber) REFERENCES bank_accounts(accountNumber),  
    FOREIGN KEY (receiverAccountNumber) REFERENCES bank_accounts(accountNumber)  
);
```

-- Inserting values to "users" table

```
INSERT INTO users (userId, userName, emailId) VALUES  
(1, 'Rahul Verma', 'rahul.verma@example.com'),  
(2, 'Sneha Kapoor', 'sneha.kapoor@example.com'),
```

```
(3, 'Vikram Singh', 'vikram.singh@example.com'),  
(4, 'Meera Nair', 'meera.nair@example.com');
```

```
-- Inserting values to "bank_accounts" table
```

```
INSERT INTO bank_accounts (bankId, bankName, accountNumber, isVerified, userId) VALUES  
(101, 'HDFC', 'ACC123456', TRUE, 1),  
(102, 'ICICI', 'ACC234567', TRUE, 1),  
(103, 'SBI', 'ACC345678', FALSE, 2),  
(104, 'Axis', 'ACC456789', TRUE, 3),  
(105, 'Kotak', 'ACC567890', TRUE, 4);
```

```
-- Inserting values to "transfers" table
```

```
INSERT INTO transfers (transferId, senderAccountNumber, receiverAccountNumber, amount,  
transferDateTime, status) VALUES  
(1001, 'ACC123456', 'ACC234567', 5000.00, '2025-07-30 10:00:00', TRUE),  
(1002, 'ACC234567', 'ACC345678', 1500.50, '2025-07-30 11:15:00', TRUE),  
(1003, 'ACC345678', 'ACC456789', 2500.75, '2025-07-31 09:30:00', FALSE),  
(1004, 'ACC456789', 'ACC567890', 3200.00, '2025-07-31 12:45:00', TRUE);
```

```
-- Describing "users" table
```

```
DESC users;
```

```
-- Displaying "users" table data
```

```
SELECT userId, userName, emailId FROM users;
```

```
-- Describing "bank_accounts" table
```

```
DESC bank_accounts;
```

```
-- Displaying "bank_accounts" table data
```

```
SELECT bankid, bankName, accountNumber, isVerified, userID FROM bank_accounts;
```

```
-- Describing "transfers" table
```

```
DESC transfers;
```

```
-- Displaying "transfers" table data
```

```
SELECT transferId, senderAccountNumber, receiverAccountNumber, amount,  
transferDateTime, status FROM transfers;
```

46 • **DESC** users;

Result Grid		Filter Rows:	<input type="text"/>	Export:		Wrap Cell Content:	
	Field	Type	Null	Key	Default	Extra	
▶	userId	int	NO	PRI	NULL		
	userName	varchar(100)	NO		NULL		
	emailId	varchar(100)	NO		NULL		

52 • **SELECT** userId, userName, emailId **FROM** users;

53

54

Result Grid			Filter Rows:	<input type="text"/>	Edit:			
	userId	userName	emailId					
▶	1	Rahul Verma	rahul.verma@example.com					
	2	Sneha Kapoor	sneha.kapoor@example.com					
	3	Vikram Singh	vikram.singh@example.com					
	4	Meera Nair	meera.nair@example.com					
•	NULL	NULL	NULL					

49 • **DESC** bank_accounts;

Result Grid		Filter Rows:	<input type="text"/>	Export:		Wrap Cell Cont
	Field	Type	Null	Key	Default	Extra
▶	bankid	int	NO	PRI	NULL	
	bankName	varchar(100)	NO		NULL	
	accountNumber	varchar(30)	NO	UNI	NULL	
	isVerified	tinyint(1)	NO		NULL	
	userId	int	YES	MUL	NULL	

```
56 -- Displaying "bank_accounts" table data
```

```
57 • SELECT bankid, bankName, accountNumber, isVerified, userID FROM bank_accounts;
```

Result Grid	Filter Rows:	Edit:	Export/Import:	Wrap Cell Content:
bankid	bankName	accountNumber	isVerified	userID
101	HDFC	ACC123456	1	1
102	ICICI	ACC234567	1	1
103	SBI	ACC345678	0	2
104	Axis	ACC456789	1	3
105	Kotak	ACC567890	1	4

bank_accounts 4

```
51
```

```
52 • DESC transfers;
```

Result Grid

Filter Rows:

Export:

Wrap Cell Content:

	Field	Type	Null	Key	Default	Extra
▶	transferId	int	NO	PRI	NULL	
	senderAccountNumber	varchar(30)	NO	MUL	NULL	
	receiverAccountNumber	varchar(30)	NO	MUL	NULL	
	amount	decimal(12,2)	NO		NULL	
	transferDateTime	timestamp	NO		NULL	
	status	tinyint(1)	NO		NULL	

```
61 -- Displaying "transfers" table data
```

```
62 • SELECT transferId, senderAccountNumber, receiverAccountNumber, amount, transferDateTime, status FROM transfers;
```

Result Grid		Filter Rows:		Edit:	Export/Import:	Wrap Cell Content:	
	transferId	senderAccountNumber	receiverAccountNumber	amount	transferDateTime	status	
▶	1001	ACC123456	ACC234567	5000.00	2025-07-30 10:00:00	1	
	1002	ACC234567	ACC345678	1500.50	2025-07-30 11:15:00	1	
	1003	ACC345678	ACC456789	2500.75	2025-07-31 09:30:00	0	
	1004	ACC456789	ACC567890	3200.00	2025-07-31 12:45:00	1	
+	NULL	NULL	NULL	NULL	NULL	NULL	