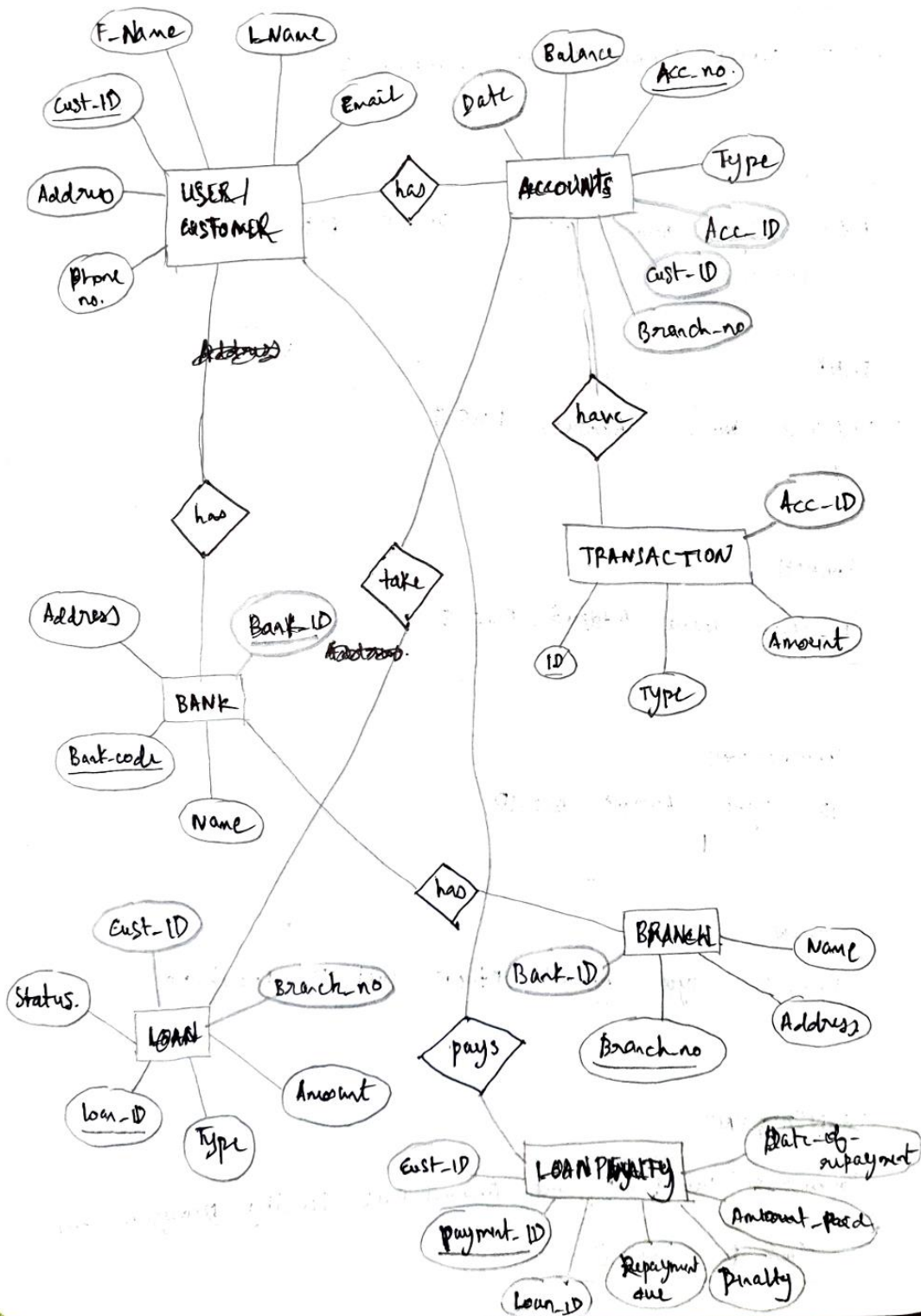
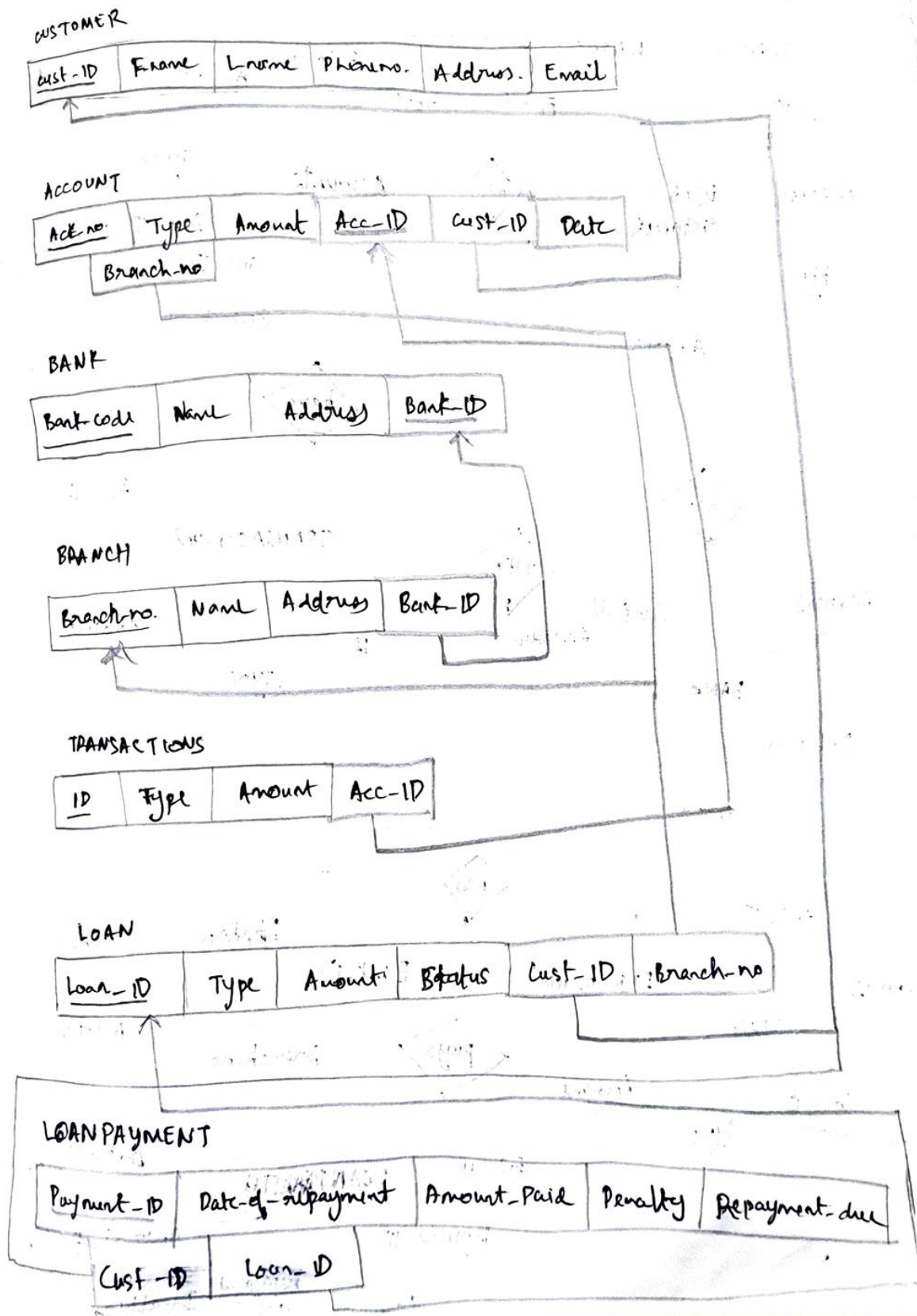


DBMS MINI PROJECT ONLINE BANKING SYSTEM

ER DIAGRAM –



RELATIONAL SCHEMA –



OUTPUT SCREENSHOTS –

```
mysql> DELIMITER //
mysql> CREATE TRIGGER check_initial_balance
-> BEFORE INSERT ON Accounts
-> FOR EACH ROW
-> BEGIN
->     IF NEW.balance <= 5000 THEN
->         SIGNAL SQLSTATE '45000'
->         SET MESSAGE_TEXT = 'Initial balance cannot be 0';
->     END IF;
-> END;
-> //
Query OK, 0 rows affected (0.00 sec)
```

```
mysql> DELIMITER //
mysql> CREATE TRIGGER check_balance
-> BEFORE INSERT ON Transactions
-> FOR EACH ROW
-> BEGIN
->     DECLARE current_balance DECIMAL(15, 2);
->
->     SELECT balance INTO current_balance
->     FROM Accounts
->     WHERE acc_id = NEW.acc_id;
->
->     IF NEW.type = 'Withdrawal' THEN
->         IF (current_balance - NEW.amount) < 5000 AND current_balance >= 5000 THEN
->             SIGNAL SQLSTATE '45000'
->             SET MESSAGE_TEXT = 'Transaction rejected: Insufficient balance';
->         ELSEIF NEW.amount > current_balance THEN
->             SIGNAL SQLSTATE '45000'
->             SET MESSAGE_TEXT = 'Transaction rejected: Insufficient balance';
->         END IF;
->     END IF;
-> END;
-> //
Query OK, 0 rows affected (0.02 sec)
```

```
mysql> DELIMITER ;
mysql> select * from accounts ;
```

acc_no	acc_id	type	date	balance	cust_id	branch_no
1001	1	Savings	2023-07-22	15000.00	1	2
1002	2	Checking	2023-08-04	10000.00	2	1

```
2 rows in set (0.00 sec)
```

```
mysql> select * from transactions
-> ;
```

id	type	amount	acc_id
1	Deposit	1000.00	1
2	Withdrawal	500.00	2

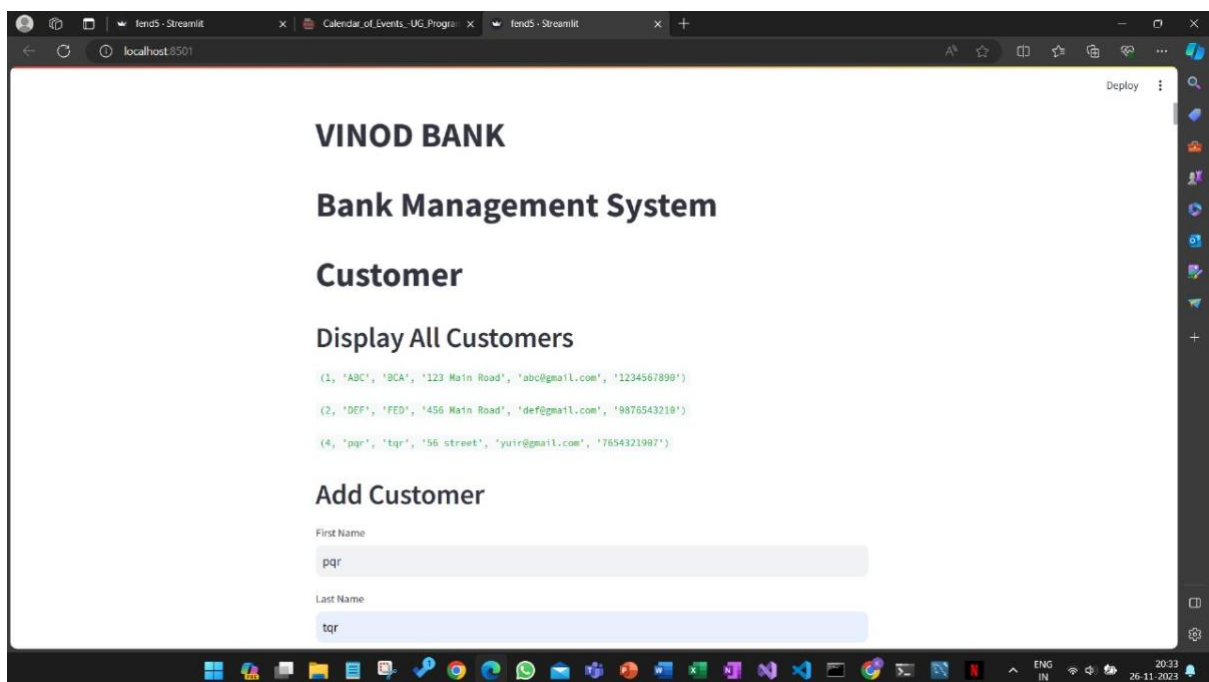
```
2 rows in set (0.02 sec)
```

```

mysql> DELIMITER //
mysql> CREATE TRIGGER check_repayment_date
-> BEFORE INSERT ON LoanPayment
-> FOR EACH ROW
-> BEGIN
->   DECLARE specified_date DATE;
->   DECLARE lamt DECIMAL(15, 2);
->
->   SELECT repayment_due, loan_amount INTO specified_date, lamt
->   FROM Loans
->   WHERE loan_id = NEW.loan_id;
->
->   IF NEW.date_of_repayment > specified_date THEN
->     SET NEW.penalty = (7/100) * lamt;
->     SIGNAL SQLSTATE '45000'
->     SET MESSAGE_TEXT = 'Repayment date exceeds specified date. Penalty applied.';
->   END IF;
-> END;
-> //
Query OK, 0 rows affected (0.00 sec)

mysql> DELIMITER ;
mysql> INSERT INTO LoanPayment (payment_id, date_of_repayment, repayment_due, cust_id, loan_id)
-> VALUES (1, '2023-10-15', '2023-05-27', 1, 1),
-> (2, '2023-9-2', '2024-03-15', 2, 2);
ERROR 1644 (45000): Repayment date exceeds specified date. Penalty applied.
mysql> SELECT * FROM LoanPayment;
+-----+-----+-----+-----+-----+-----+
| payment_id | date_of_repayment | penalty | repayment_due | cust_id | loan_id |
+-----+-----+-----+-----+-----+-----+
| 1 | 2023-10-15 | 1400.00 | 2023-05-27 | 1 | 1 |
| 2 | 2023-09-02 | 0.00 | 2024-03-15 | 2 | 2 |
+-----+-----+-----+-----+-----+-----+
2 rows in set (0.00 sec)

```



VINOD BANK

Bank Management System

Customer

Display All Customers

(1, 'ABC', 'BCA', '123 Main Road', 'abc@gmail.com', '1234567890')

(2, 'DEF', 'FED', '456 Main Road', 'def@gmail.com', '9876543210')

(4, 'pqr', 'tqr', '56 street', 'yui@gmail.com', '7654321987')

Add Customer

First Name

pqr

Last Name

tqr

ferd5 - Streamlit

Calendar_of_Events_-_UG_Progra...

ferd5 - Streamlit

+

localhost:8501

Deploy

Add Customer

First Name

pqr

Last Name

tqr

Address

56 street

Email

yuir@gmail.com

Phone Number

7654321907

Add Customer

Customer added successfully!

Display Singular Customer

7654321907

Add Customer

Display Singular Customer

Enter Customer ID

4.00

Display Customer

```
[{"id": 4, "first_name": "pqr", "last_name": "tqr", "address": "56 street", "email": "yuir@gmail.com", "phone_number": "7654321907"}]
```

Customer Deletion

Customer ID to Delete

20:33

26-11-2023

ENG IN

