Python Project

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Project1: Election Voting

Database Query:

```
CREATE DATABASE IF NOT EXISTS election;

USE election;

CREATE TABLE IF NOT EXISTS election_candidate (
    id INT PRIMARY KEY AUTO_INCREMENT,
    Atchaya INT DEFAULT 0,
    Ananth INT DEFAULT 0,
    Priya INT DEFAULT 0
);

INSERT INTO election_candidate (Atchaya, Ananth, Priya) VALUES (0, 0, 0);
```

Python Code:

```python
import mysql.connector
import datetime
import smtplib
from email.mime.text import MIMEText

# Function to get voter details
def get_voter_details():
    name = input("Enter your name: ")
    email = input("Enter your email: ")
    return name, email

# Function to display candidates
def display_candidates():
    print("Select the Candidate listed below")
    print("1. Atchaya")
    print("2. Ananth")
    print("3. Priya")

# Function to update vote in the database
def update_vote(candidate_number):
    conn = mysql.connector.connect(
        host='localhost',
        user='root',
        password='12345',
        database='election'
    )
    cursor = conn.cursor()

    candidate_fields = {1: "Atchaya", 2: "Ananth", 3: "Priya"}
    candidate = candidate_fields[candidate_number]

    query = f'''
    UPDATE election_candidate
    SET {candidate} = {candidate} + 1
    WHERE id = 1
    '''

    cursor.execute(query)
    conn.commit()
    conn.close()

# Function to record voter details
def record_voter(name, email):
    with open('voters.txt', 'a') as file:
        file.write(f"{name}, {email}, {datetime.datetime.now()}\n")

# Function to send email confirmation
def send_email(email):
```

```
    msg = MIMEText("Thank you for voting!")
    msg['Subject'] = "Voting Confirmation"
    msg['From'] = 'atchayaananth2005@gmail.com'
    msg['To'] = email

    with smtplib.SMTP('smtp.gmail.com', 587) as server:
        server.starttls()
        server.login('atchayaananth2005@gmail.com', 'qiuf oyvp fpzc
wfvz')
        server.send_message(msg)

# Main function
def main():
    name, email = get_voter_details()
    display_candidates()

    choice = int(input("Enter the number of the candidate you want
to vote for: "))
    update_vote(choice)

    record_voter(name, email)
    send_email(email)
    print("Thank you for voting!")

if __name__ == "__main__":
    main()
```

Output:

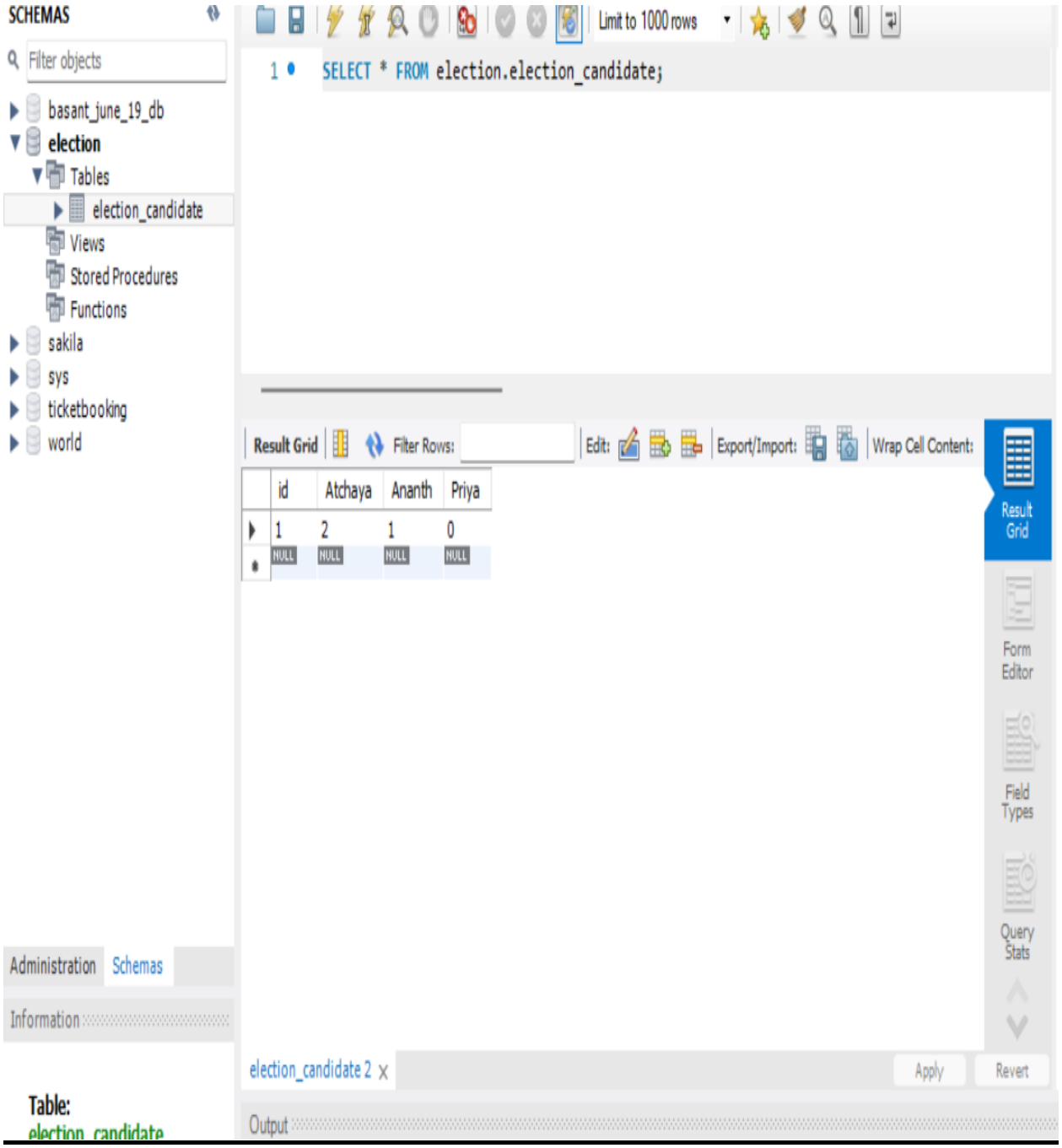
```
PS D:\Python basant\Election> & C:/Users/Atchaya/AppData/Local/Programs/Python/P
Enter your name: Atchaya
Enter your email: 225027020@sastra.ac.in
Select the Candidate listed below
1. Atchaya
2. Ananth
3. Priya
Enter the number of the candidate you want to vote for: 1
Thank you for voting!
PS D:\Python basant\Election> & C:/Users/Atchaya/AppData/Local/Programs/Python/P
Enter your name: Ananth
Enter your email: sudhanananth@gmail.com
Select the Candidate listed below
1. Atchaya
2. Ananth
3. Priya
Enter the number of the candidate you want to vote for: 2
Thank you for voting!
PS D:\Python basant\Election> & C:/Users/Atchaya/AppData/Local/Programs/Python/P
Enter your name: Sudhan
Enter your email: 225027020@sastra.ac.in
Select the Candidate listed below
1. Atchaya
2. Ananth
3. Priya
Enter the number of the candidate you want to vote for: 1
Thank you for voting!
PS D:\Python basant\Election>
```

Txt file Append:

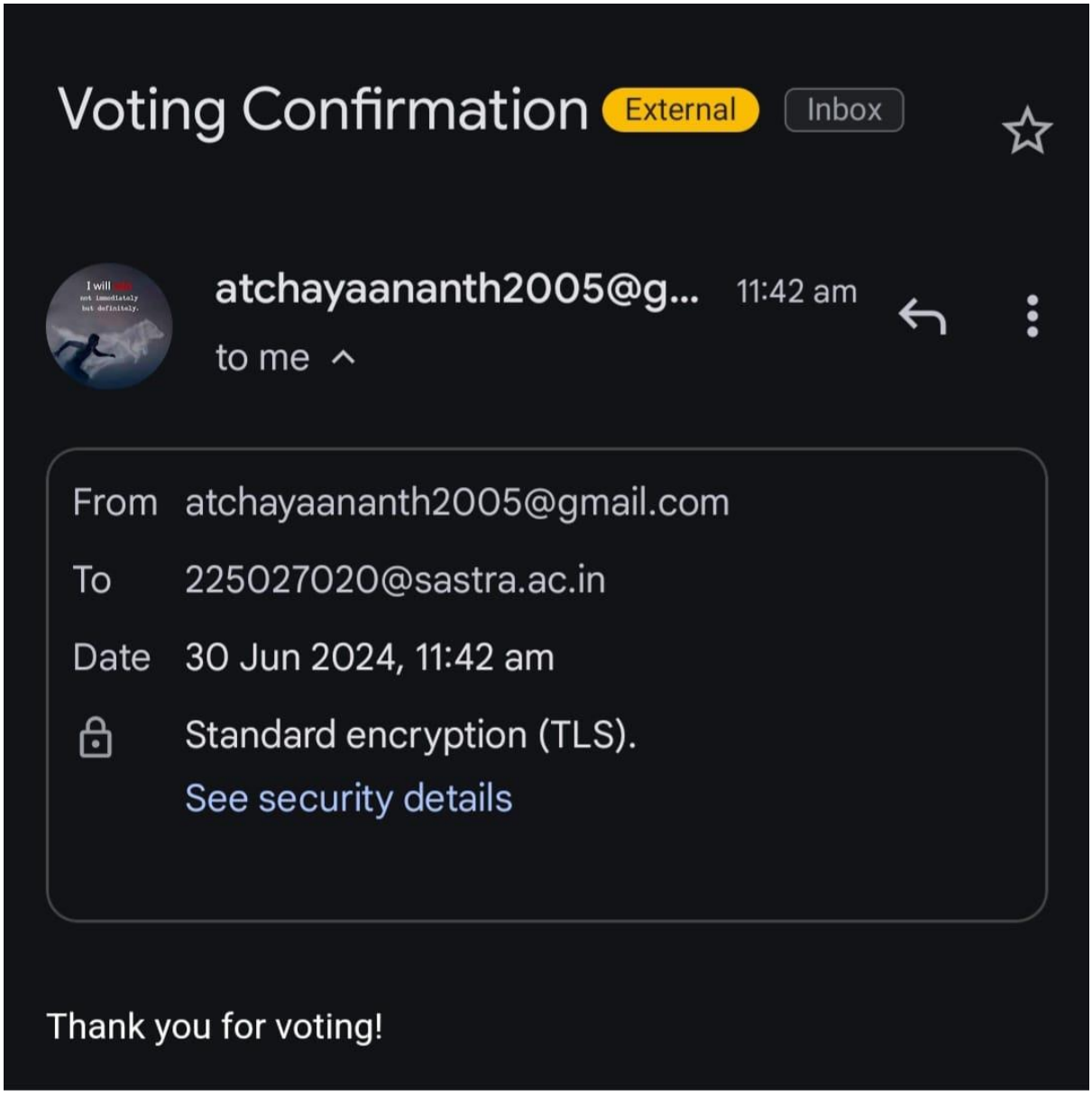
voters.txt

```
1   Atchaya, 225027020@sastra.ac.in, 2024-06-30 11:43:19.454026
2   Ananth, sudhanananth@gmail.com, 2024-06-30 11:45:18.365864
3   Sudhan, 225027020@sastra.ac.in, 2024-06-30 11:48:32.159116
4
```

Database updated:


SCHEMAS
Filter objects
basant_june_19_db
election
Tables
election_candidate
Views
Stored Procedures
Functions
sakila
sys
ticketbooking
world
Limit to 1000 rows
1 SELECT * FROM election.election_candidate;
Result Grid
Filter Rows:
Edit:
Export/Import:
Wrap Cell Content:
id
Atchaya
Ananth
Priya
1
2
1
0
NULL
Result Grid
Form Editor
Field Types
Query Stats
Administration
Schemas
Information
Table:
election_candidate
election_candidate 2
Apply
Revert
Output

Email:



Project2: Booking Ticket

Database Query:

```
Create database ticketbooking;
Use ticketbooking;
CREATE TABLE bookings (
    sno INT AUTO_INCREMENT PRIMARY KEY,
    booker_name VARCHAR(100),
    theater_name VARCHAR(100),
    movie_title VARCHAR(100),
    number_of_tickets INT,
    seat_numbers VARCHAR(50),
    total_amount DECIMAL(10, 2)
);
```

Theater1.txt file:

Maharaja,150

Kalki,170

Pt sir,120

Theater2.txt file:

Garudan,150

Star,180

Rasavathi,140

Theater3.txt file:

Aranmanai4,160

Kanguva,200

Goat,250

Python Program:

```
import smtplib
import mysql.connector

def connect():
    return mysql.connector.connect(
        host='localhost',
        user='root',
        password='12345',
        database='ticketbooking'
    )

def add_booking(cursor, booker_name, theater_name, movie_title,
number_of_tickets, seat_numbers, total_amount):
    query = """
    INSERT INTO bookings (booker_name, theater_name, movie_title,
number_of_tickets, seat_numbers, total_amount)
    VALUES (%s, %s, %s, %s, %s, %s)
    """
    cursor.execute(query, (booker_name, theater_name, movie_title,
number_of_tickets, seat_numbers, total_amount))

def get_bookings(cursor):
    query = "SELECT * FROM bookings"
    cursor.execute(query)
    return cursor.fetchall()

def read_movies(file_path):
    movies = []
    with open(file_path, 'r') as file:
        for line in file:
            title, price = line.strip().split(',')
            movies.append((title, float(price)))
    return movies

def display_movies(movies):
    for theater, movie_list in movies.items():
        print(f"Theater: {theater}")
        for title, price in movie_list:
            print(f"  Movie: {title}, Price: {price:.2f}")

def send_email(booker_name, booker_email, theater_name, movie_title,
number_of_tickets, seat_numbers, total_amount):

    body = (
```

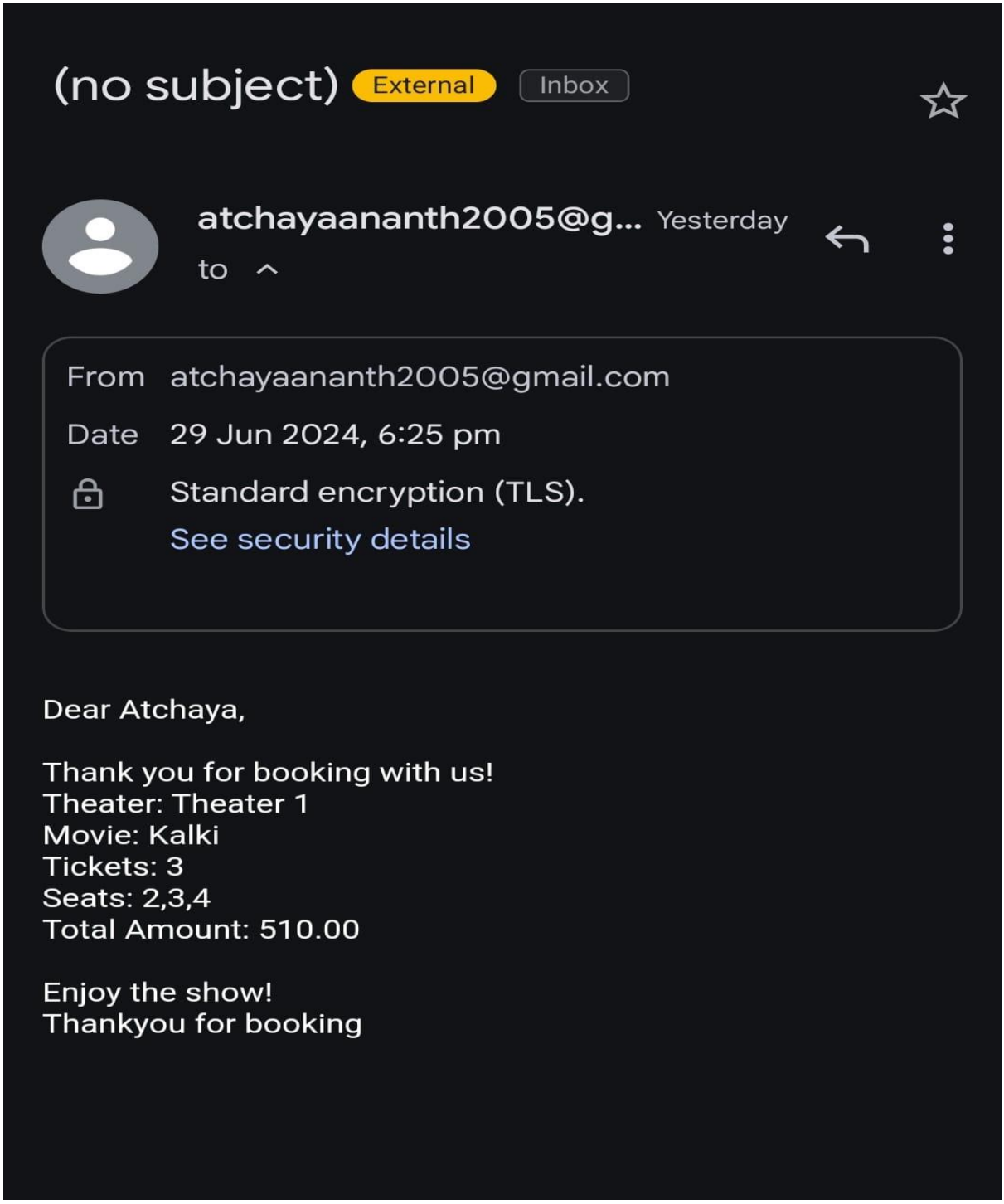
```
        f"Dear {booker_name},\n\n"
        f"Thank you for booking with us!\n"
        f"Theater: {theater_name}\n"
        f"Movie: {movie_title}\n"
        f"Tickets: {number_of_tickets}\n"
        f"Seats: {seat_numbers}\n"
        f"Total Amount: {total_amount:.2f}\n\n"
        f"Enjoy the show!\n"
       f"Thankyou for booking\n"
    )
    s=smtplib.SMTP('smtp.gmail.com',587)
    s.starttls()
    s.login("atchayaananth2005@gmail.com","kegb abbl fpid bvgx")
    s.sendmail("atchayaananth2005@gmail.com",booker_email,body)
    s.quit()
    print("Mail sent Successfully")

def main():
    db = connect()
    cursor = db.cursor()

    # Read movie details from text files
    theaters = {
        "Vasu Theater": "theater1.txt",
        "Kasi Theater": "theater2.txt",
        "MSM Theater": "theater3.txt"
    }
    movie_data = {theater: read_movies(file) for theater, file in
theaters.items()}

    # Display movies
    display_movies(movie_data)

    # Booking process
    booker_name = input("Enter your name: ")
    booker_email = input("Enter your email: ")
    theater_name = input("Enter theater name: ")
    movie_title = input("Enter movie title: ")
    number_of_tickets = int(input("Enter number of tickets: "))
    seat_numbers = input("Enter seat numbers (comma-separated): ")

    # Calculate total amount
    movie_price = None
    for theater, movies in movie_data.items():
        if theater == theater_name:
            for title, price in movies:
                if title == movie_title:
                    movie_price = price
```

```
                    break

    if movie_price is None:
        print("Movie not found!")
        return

    total_amount = number_of_tickets * movie_price
    print(f"Total amount: {total_amount:.2f}")

    # Add booking to database
    add_booking(cursor, booker_name, theater_name, movie_title,
number_of_tickets, seat_numbers, total_amount)
    db.commit()

    # Append booking details to a file
    with open('bookings.txt', 'a') as file:
        file.write(f"Name: {booker_name}, Theater: {theater_name}, Movie:
{movie_title}, "
                   f"Tickets: {number_of_tickets}, Seats: {seat_numbers},
Total Amount: {total_amount:.2f}\n")

    # Send confirmation email
    send_email(booker_name, booker_email, theater_name, movie_title,
number_of_tickets, seat_numbers, total_amount)

    # Display all bookings
    bookings = get_bookings(cursor)
    for booking in bookings:
        print(booking)

    cursor.close()
    db.close()

if __name__ == "__main__":
     main()
```

Output:

```
PS D:\Python basant\moviebooking> & C:/Users/Atchaya/AppData/Local/Programs/Pyt
Theater: Vasu Theater
  Movie: Maharaja, Price: 150.00
  Movie: Kalki, Price: 170.00
  Movie: Pt sir, Price: 120.00
Theater: Kasi Theater
  Movie: Garudan, Price: 150.00
  Movie: Star, Price: 180.00
  Movie: Rasavathi, Price: 140.00
Theater: MSM Theater
  Movie: Aranmanai4, Price: 160.00
  Movie: Kanguva, Price: 200.00
  Movie: Goat, Price: 250.00
Enter your name: Priya
Enter your email: sudhanananth@gmail.com
Enter theater name: Kasi Theater
Enter movie title: Star
Enter number of tickets: 4
Enter seat numbers (comma-separated): 8,9,10,11
Total amount: 720.00
Mail sent Successfully
(1, 'Atchaya', 'Theater 1', 'Kalki', 3, '2,3,4', Decimal('510.00'))
(2, 'Ananth', 'Theater 3', 'Goat', 2, '5,7', Decimal('500.00'))
(3, 'Priya', 'Kasi Theater', 'Star', 4, '8,9,10,11', Decimal('720.00'))
```

Email:



Text File Append:

bookings.txt

```
1  Name: Atchaya, Theater: Theater 1, Movie: Kalki, Tickets: 3, Seats: 2,3,4, Total Amount: 510.00
2  Name: Ananth, Theater: Theater 3, Movie: Goat, Tickets: 2, Seats: 5,7, Total Amount: 500.00
3  Name: Priya, Theater: Kasi Theater, Movie: Star, Tickets: 4, Seats: 8,9,10,11, Total Amount: 720.00
4
```

Database Updated: