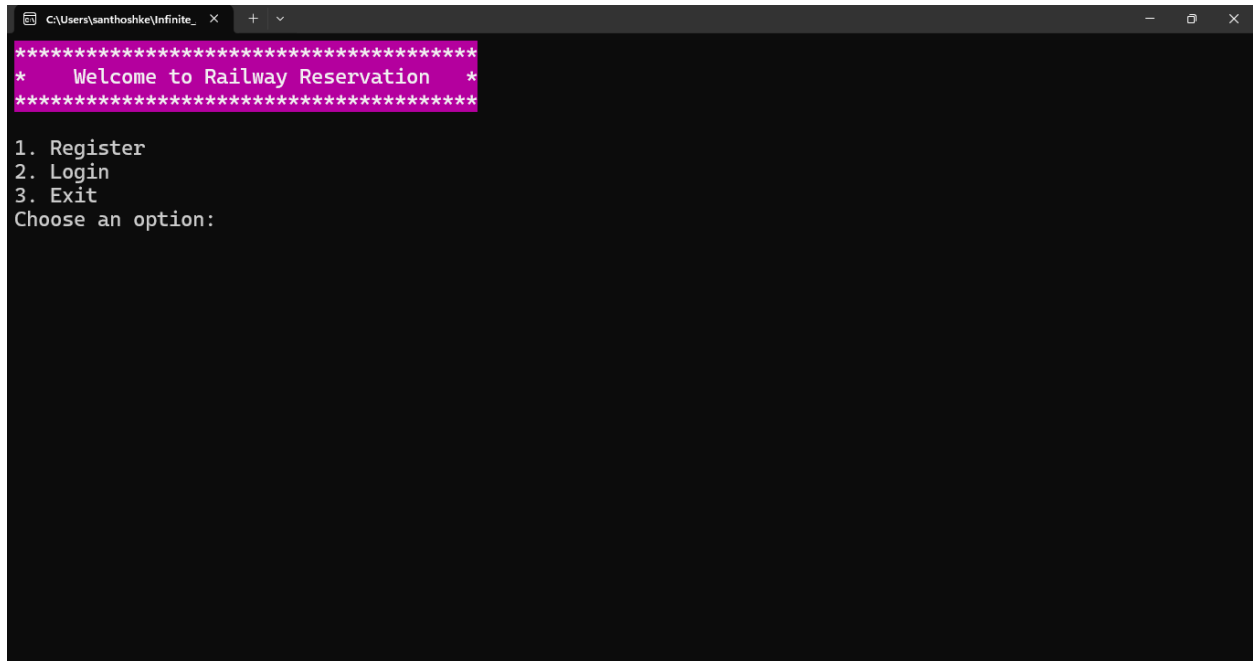


# RAILWAY RESERVATION SYSTEM

## Snapshots:

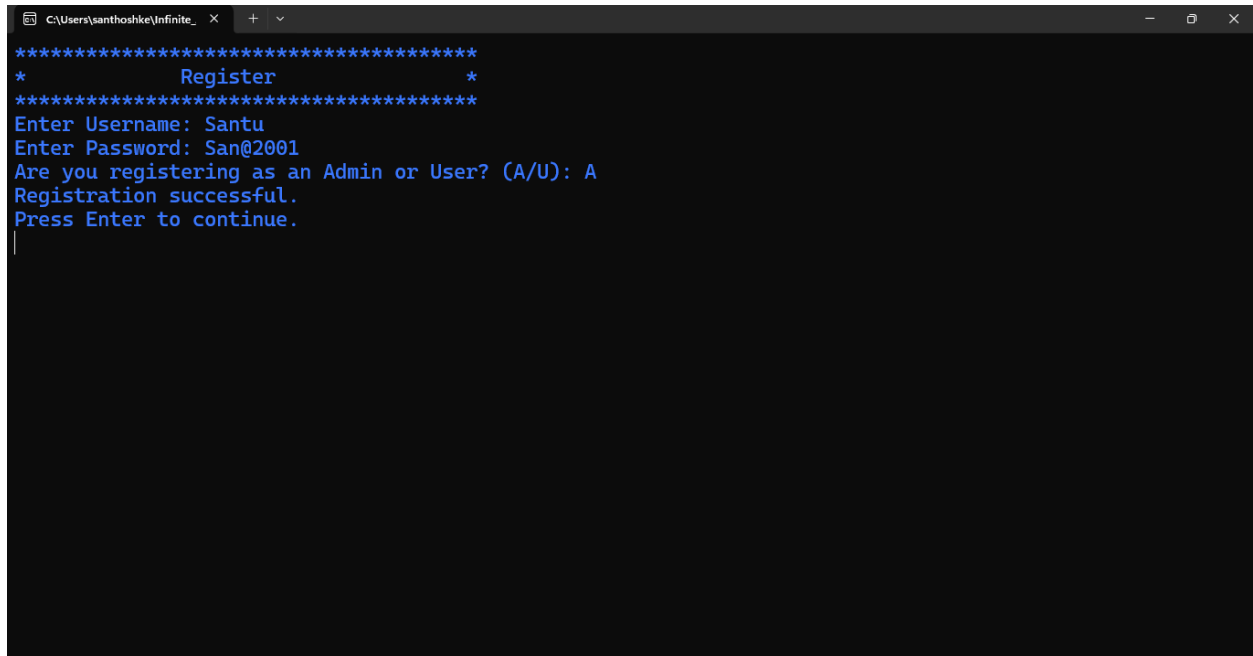
Home Page of Railway Reservation System:



```
C:\Users\santhoshke\Infinite_ X + v
*****
* Welcome to Railway Reservation *
*****

1. Register
2. Login
3. Exit
Choose an option:
```

Register as Admin:



```
C:\Users\santhoshke\Infinite_ X + v
*****
* Register *
*****
Enter Username: Santu
Enter Password: San@2001
Are you registering as an Admin or User? (A/U): A
Registration successful.
Press Enter to continue.
|
```

Register as User:

```
C:\Users\santhoshke\Infinite_ X + v
*****
*           Register           *
*****
Enter Username: Vinay
Enter Password: Vin@2000
Are you registering as an Admin or User? (A/U): U
Registration successful.
Press Enter to continue.
|
```

If i give Invalid Credentials it will show Invalid Credentials:

```
C:\Users\santhoshke\Infinite_ X + v
*****
*           Login             *
*****
Enter Username: Sajdhhd
Enter Password: 2343
Are you logging in as an Admin or User? (A/U): A
Invalid credentials.
Press Enter to continue.
```

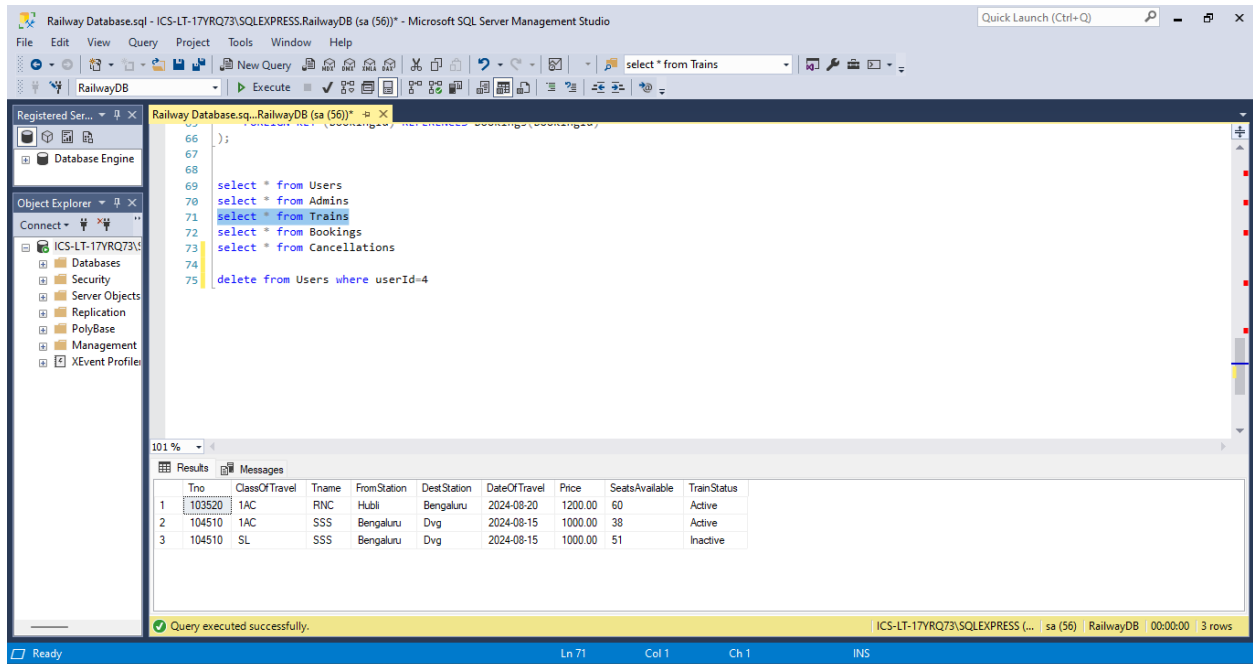
If we Login as Admin:

```
C:\Users\santhoshke\Infinite_ x + v
*****
*                               *
*           Admin Menu          *
*                               *
*****
1. Add Train
2. Update Train
3. Delete Train
4. View All Bookings
5. View All Cancellations
6. Manage Users
7. Logout
Choose an option: 1|
```

## 1) Add Train Functionalities:

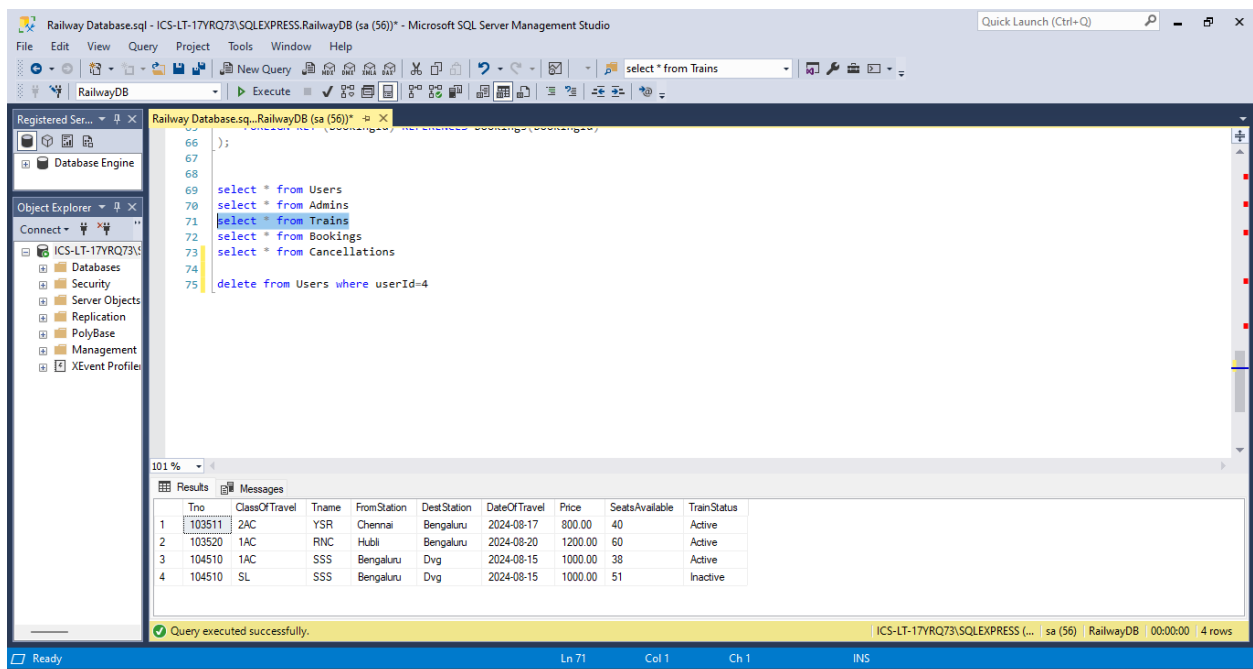
```
C:\Users\santhoshke\Infinite_ x + v
Enter Train Number: 103520
Enter Train Name: RNC
Enter Source Station: Hubli
Enter Destination Station: Bengaluru
Enter Class of Travel: 1AC
Enter Date of Travel (yyyy-mm-dd): 2024-08-20
Enter Number of Seats Available: 60
Enter Ticket Price: 1200
Enter Train Status (Active/Inactive): Active
Train added successfully.
Press Enter to continue.
|
```

### 1.1) We can add same train number with different Class of Travel:



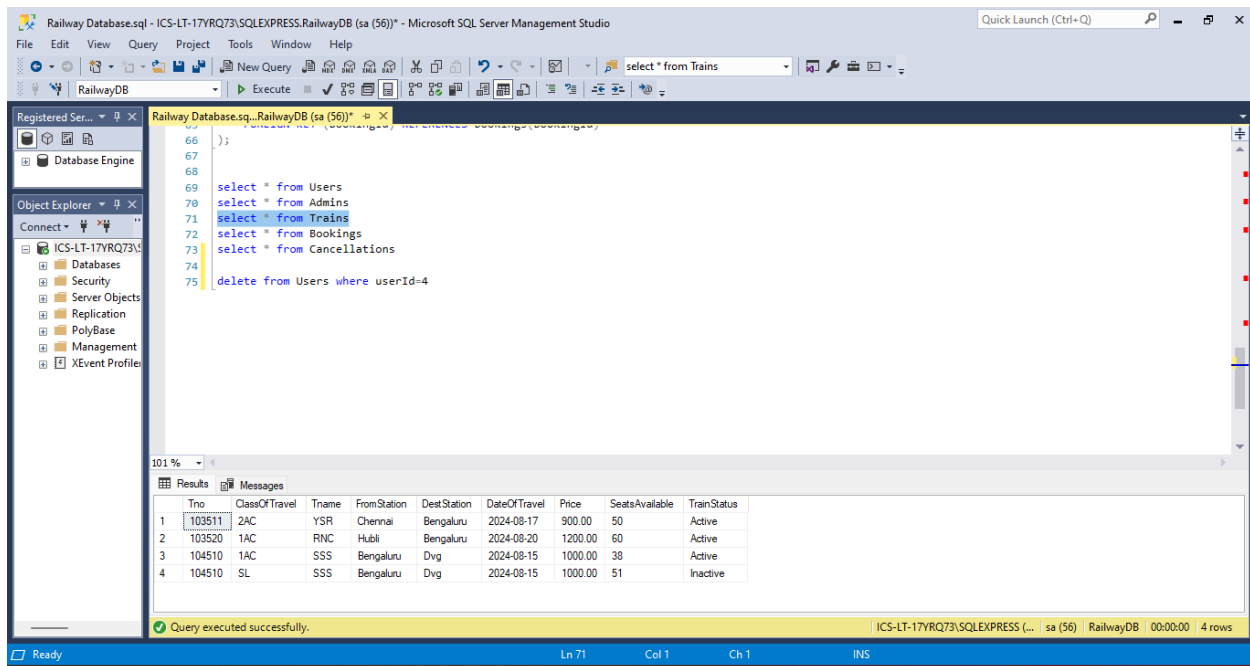
## 2) Update Train Functionalities:

### 2.1) Before Updation of Train



### 2.2) After Updation of Train:

```
C:\Users\santhoshke\Infinite_ x + v
Enter Train Number to Update: 103511
Enter New Train Name (or leave blank to keep current):
Enter New Source Station (or leave blank to keep current):
Enter New Destination Station (or leave blank to keep current):
Enter New Price (or leave blank to keep current): 900
Enter New Seats Available (or leave blank to keep current): 50
Train updated successfully.
Press Enter to continue.
|
```



### 3) Delete Train Functionalities:

```
C:\Users\santhoshke\Infinite_ x + v
Enter Train Number to Delete: 103520
0 cancellation(s) deleted.
0 booking(s) deleted.
1 train(s) deleted.
Train deleted successfully.
Press Enter to continue.
|
```

After Deletion in the Database:

The screenshot shows the Microsoft SQL Server Management Studio interface. The query window contains the following SQL code:

```
66 );
67
68
69 select * from Users
70 select * from Admins
71 select * from Trains
72 select * from Bookings
73 select * from Cancellations
74
75 delete from Users where userId=4
```

The Results window displays the following table:

Tno	ClassOfTravel	Tname	FromStation	DestStation	DateOfTravel	Price	SeatsAvailable	TrainStatus	
1	103511	2AC	YSR	Chennai	Bengaluru	2024-08-17	900.00	50	Active
2	104510	1AC	SSS	Bengaluru	Dvg	2024-08-15	1000.00	38	Active
3	104510	SL	SSS	Bengaluru	Dvg	2024-08-15	1000.00	51	Inactive

The status bar at the bottom indicates: Query executed successfully. ICS-LT-17YRQ73\SQLEXPRESS (sa (56) | RailwayDB | 00:00:00 | 3 rows

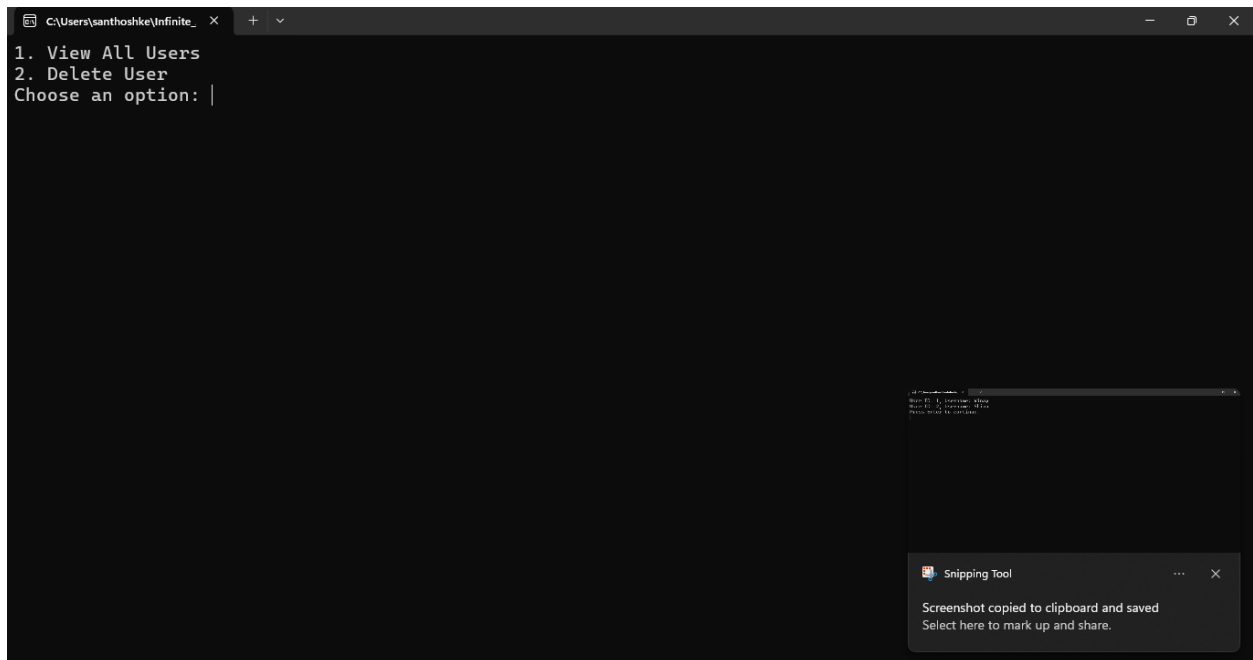
4) View All Bookings:

```
C:\Users\santhoshke\Infinite_ x + v
Booking ID: 3, Train No: 104510, User ID: 2, Seats: 2, Date: 8/5/2024 3:42:38 PM
Press Enter to continue.
|
```

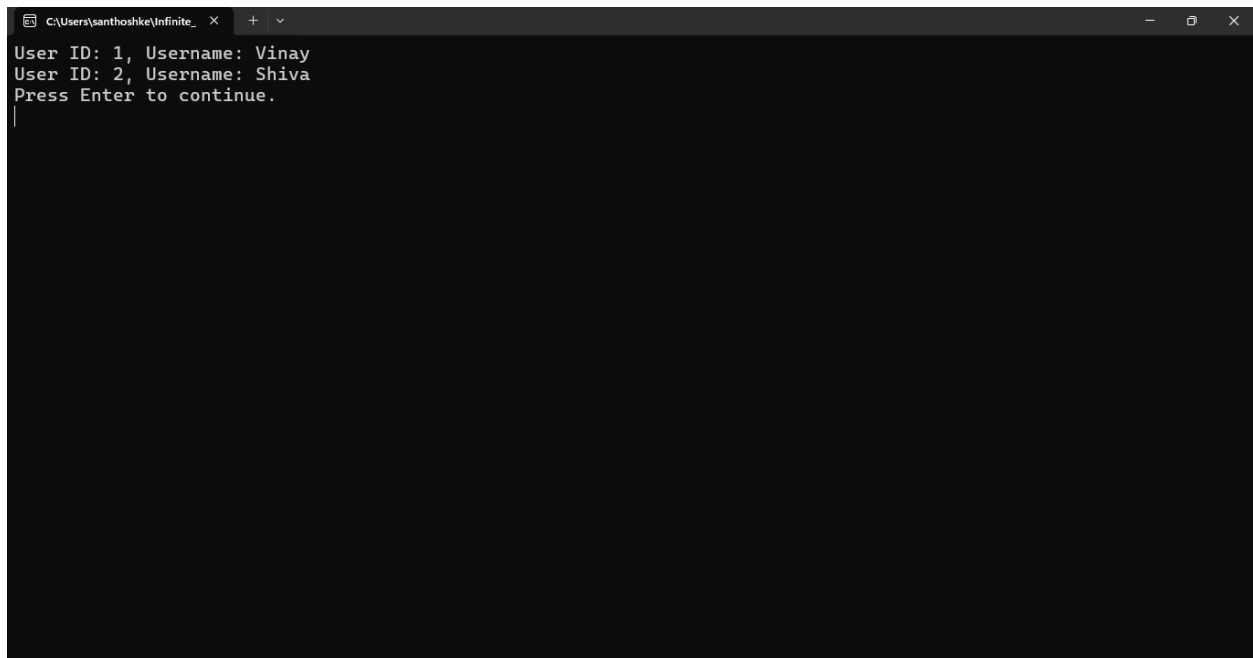
## 5) View All Cancellations:

```
C:\Users\santhoshke\Infinite_ x + v
Cancellation ID: 3, Booking ID: 3, Train No: 104510, User ID: 2, Seats Cancelled: 1, Date: 8/5/2024 3:44:01 PM
Press Enter to continue.
|
```

## 6) 6.1 Manage Users:

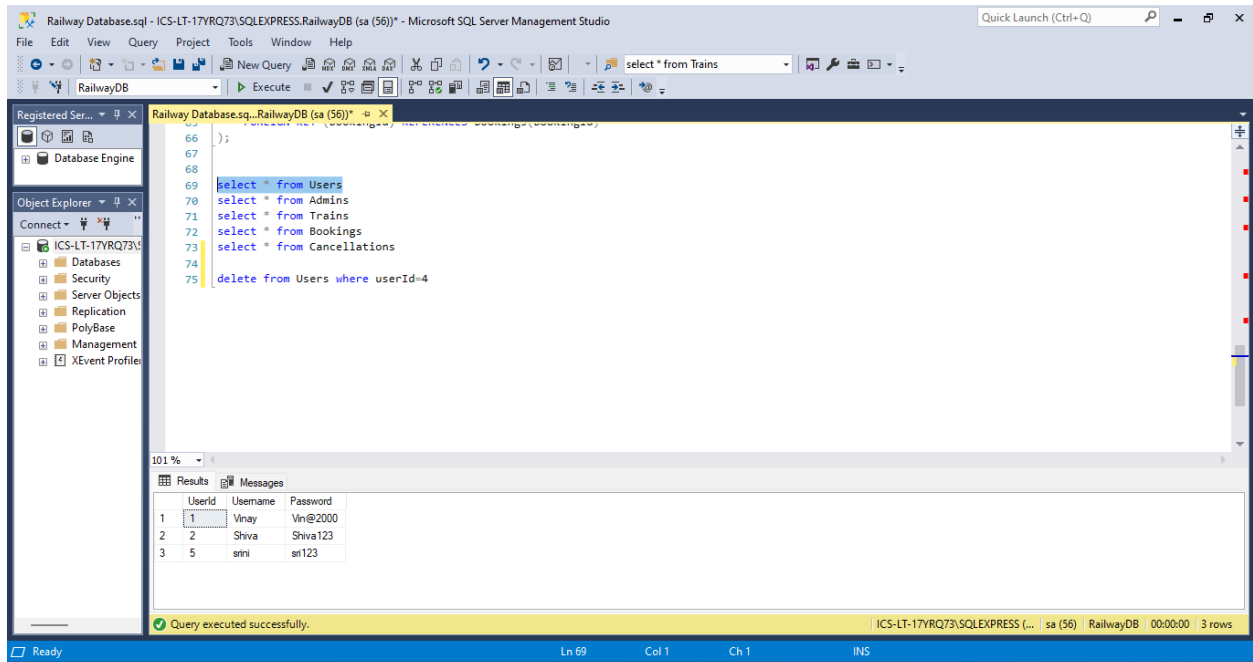


### 6.1.1 View All Users:

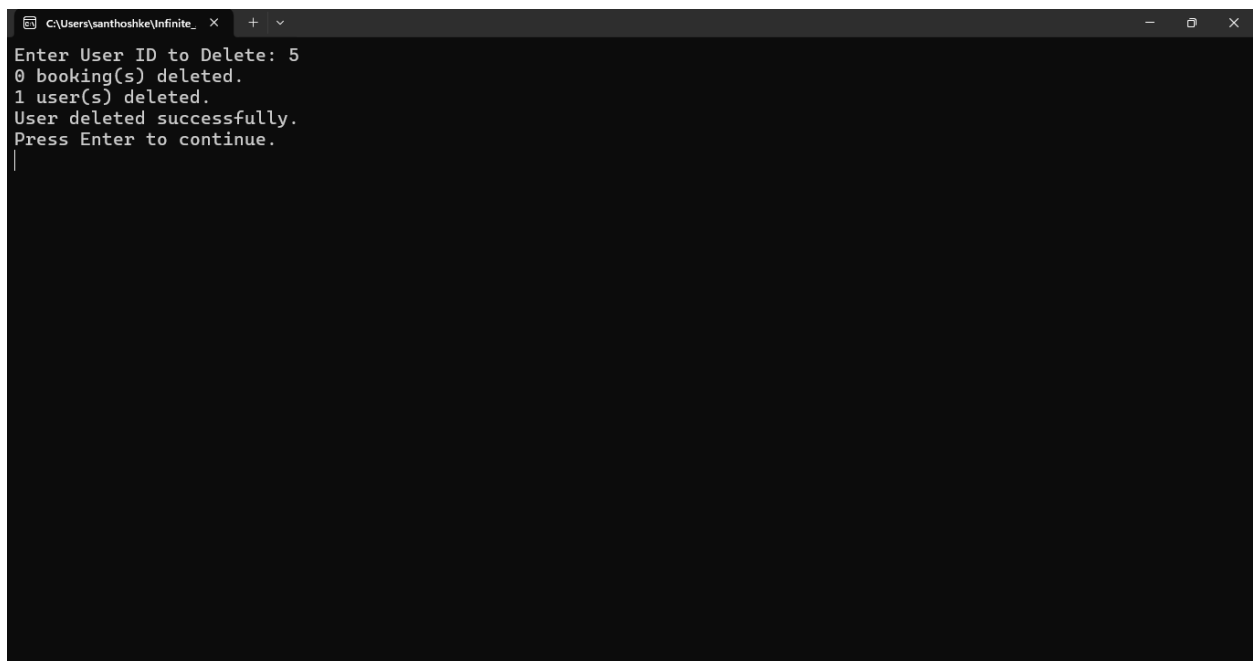


### 6.1.2 Delete Users:





After Deletion of User:



If We Login as a User:

```
C:\Users\santhoshke\Infinite_ X + v
*****
*                               *
*           User Menu           *
*                               *
*****

1. Search Trains
2. Book Tickets
3. Cancel Tickets
4. View Bookings
5. Logout
Choose an option: |
```

## 1) Search Train Functionalities:

### 1.1) If we enter the all the details Correctly:

```
C:\Users\santhoshke\Infinite_ X + v
Enter Source Station: Bengaluru
Enter Destination Station: Dvg
Enter Date of Travel (yyyy-mm-dd): 2024-08-15
Train Number | Train Name | Class of Travel | Seats Available | Price | Train Status | Date of Travel
104510 | SSS | 1AC | 38 | 1000.00 | Active | 8/15/2024
104510 | SSS | SL | 51 | 1000.00 | Inactive | 8/15/2024
Press Enter to continue.
|
```

### 1.2) If we enter wrong details any of the data:

```
C:\Users\santhoshke\Infinite_ X + v
Enter Source Station: Bengaluru
Enter Destination Station: Dvg
Enter Date of Travel (yyyy-mm-dd): 2023-08-15
No trains found for the specified route and date.
Press Enter to continue.
|
```

## 2) Book Tickets Functionalities:

### 2.1) We can book only active Trains:

```
C:\Users\santhoshke\Infinite_ X + v
Enter Train Number: 104510
Enter Class of Travel: 1AC
Enter Date of Travel (yyyy-mm-dd): 2024-08-15
Enter Number of Seats: 3
Booking successful.
Booking Details:
Booking ID: 4
Train Number: 104510
Class of Travel: 1AC
User ID: 1
Number of Seats: 3
Booking Date: 8/9/2024 12:22:11 AM
Date of Travel: 8/15/2024 12:00:00 AM
Total Amount: 3000.00
Press Enter to continue.
|
```

### 2.2) If we try to book inactive trains:

```
C:\Users\santhoshke\Infinite_ x + v
Enter Train Number: 104510
Enter Class of Travel: SL
Enter Date of Travel (yyyy-mm-dd): 2024-08-15
Enter Number of Seats: 2
The train is not active and cannot be booked.
|
```

2.3) We can Book only maximum 3 Tickets, If we Book Above 3 it won't accept

```
C:\Users\santhoshke\Infinite_ x + v
Enter Train Number: 103511
Enter Class of Travel: 2AC
Enter Date of Travel (yyyy-mm-dd): 2024-08-17
Enter Number of Seats: 5
You can book a maximum of 3 tickets at a time.
Press Enter to continue.
|
```

3) Cancel Ticket Functionality:

```
C:\Users\santhoshke\Infinite_ X + v
Enter Booking ID: 5
Enter Number of Seats to Cancel: 1
Cancellation successful.
Press Enter to continue.
|
```

#### 4) View All Bookings:

```
C:\Users\santhoshke\Infinite_ X + v
Booking ID: 4, Train No: 104510, Seats: 3, Date: 8/9/2024 12:22:11 AM
Booking ID: 5, Train No: 103511, Seats: 2, Date: 8/9/2024 12:28:26 AM
Press Enter to continue.
|
```