

Lab 4 Tests

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For this assignment, I used microsoft VSCode as my environment and MySQL for the database.

Overall Menu:

```
----- Lab 4: Pomona Transit System -----
1. View Trip Schedules
2. Edit Trip Offerings
3. Other Functions
4. Exit

Select an option:
❖ PS E:\School\CS4350\Lab4> []
```

1. Display the schedule of all trips for a given StartLocationName and Destination Name, and Date. In addition to these attributes, the schedule includes: Scheduled StartTime, ScheduledArrivalTime , DriverID, and BusID.

```
----- Lab 4: Pomona Transit System -----
1. View Trip Schedules
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4. Exit

Select an option: 1

Enter Start Location: City A
Enter Destination: City B
Enter Date (yyyy-mm-dd): 2025-05-01

Start: 08:00:00 | Arrival: 10:00:00 | Driver: John Doe | Bus ID: 1
```

```

1  select * from trip, tripoffering
2

```

Result Grid						
		Filter Rows:	Export:		Wrap Cell Content:	
	TripNumber	StartLocationName	DestinationName	TripNumber	Date	ScheduledStartTime
▶	102	City C	City D	101	2025-05-01	08:00:00
	101	City A	City B	101	2025-05-01	08:00:00
	102	City C	City D	102	2025-05-02	09:00:00
	101	City A	City B	102	2025-05-02	09:00:00

2. Edit the schedule i.e. edit the table of Trip Offering as follows:

-Delete a trip offering specified by Trip#, Date, and ScheduledStartTime;

----- Lab 4: Pomona Transit System -----

1. View Trip Schedules
2. Edit Trip Offerings
3. Other Functions
4. Exit

Select an option: 2

----- Edit Schedule -----

1. Delete a trip offering
2. Add a set of trip offerings
3. Change driver for a trip offering
4. Change bus for a trip offering
5. Exit

Select an option: 1

Enter Trip Number: 101

Enter Date (yyyy-mm-dd): 2025-05-01

Enter Scheduled Start Time (HH:MM:SS): 08:00:00

Trip offering deleted.

```

1  select * from trip, tripproffering
2

```

Result Grid						
		Filter Rows:		Export:		Wrap Cell Content: IA
	TripNumber	StartLocationName	DestinationName	TripNumber	Date	ScheduledStartTime
▶	101	City A	City B	102	2025-05-02	09:00:00
	102	City C	City D	102	2025-05-02	09:00:00

-Add a set of trip offerings assuming the values of all attributes are given (the software asks if you have more trips to enter) ;

----- Edit Schedule -----

1. Delete a trip offering
2. Add a set of trip offerings
3. Change driver for a trip offering
4. Change bus for a trip offering
5. Exit

Select an option: 2

Enter Trip Number: 101

Enter Date (yyyy-mm-dd): 2025-05-03

Enter Scheduled Start Time (HH:MM:SS): 08:00:00

Enter Scheduled Arrival Time (HH:MM:SS): 09:00:00

Enter Driver Name: John Doe

Enter Bus ID: 1

Trip offering added.

Do you want to add another trip offering? (Y/N): ☐

Result Grid						
		Filter Rows:		Edit:		Export/Import:
	TripNumber	Date	ScheduledStartTime	ScheduledArrivalTime	DriverName	BusID
▶	101	2025-05-03	08:00:00	09:00:00	John Doe	1
	102	2025-05-02	09:00:00	11:30:00	Jane Smith	2
*	NULL	NULL	NULL	NULL	NULL	NULL

- Change the driver for a given Trip offering (i.e given TripNumber, Date, ScheduledStartTime);

----- Edit Schedule -----

1. Delete a trip offering
2. Add a set of trip offerings
3. Change driver for a trip offering
4. Change bus for a trip offering
5. Exit

Select an option: 3

Enter Trip Number: 101

Enter Date (yyyy-mm-dd): 2025-05-03

Enter Scheduled Start Time (HH:MM:SS): 08:00:00

Enter New Driver Name: Jane Smith

Driver updated.

Result Grid						
		Filter Rows:	Edit:		Export/Import:	
	TripNumber	Date	ScheduledStartTime	ScheduledArrivalTime	DriverName	BusID
▶	101	2025-05-03	08:00:00	09:00:00	Jane Smith	1
	102	2025-05-02	09:00:00	11:30:00	Jane Smith	2
✱	NULL	NULL	NULL	NULL	NULL	NULL

- Change the bus for a given Trip offering.

----- Edit Schedule -----

1. Delete a trip offering
2. Add a set of trip offerings
3. Change driver for a trip offering
4. Change bus for a trip offering
5. Exit

Select an option: 4

Enter Trip Number: 101

Enter Date (yyyy-mm-dd): 2025-05-03

Enter Scheduled Start Time (HH:MM:SS): 08:00:00

Enter New Bus ID: 2

Bus updated.

Result Grid						
		Filter Rows:	Edit:		Export/Import:	
	TripNumber	Date	ScheduledStartTime	ScheduledArrivalTime	DriverName	BusID
▶	101	2025-05-03	08:00:00	09:00:00	Jane Smith	2
	102	2025-05-02	09:00:00	11:30:00	Jane Smith	2
✱	NULL	NULL	NULL	NULL	NULL	NULL

From this point onwards, I consolidated all of the other functions into a single “other functions” class with its won unique menu.

3. Display the stops of a given trip (i.e. the attributes of the table TripStopInfo).

----- Lab 4: Pomona Transit System -----

1. View Trip Schedules
2. Edit Trip Offerings
3. Other Functions
4. Exit

Select an option: 3

--- Transit Admin Menu ---


1. Display stops of a trip
2. Display weekly schedule of driver
3. Add driver
4. Add bus
5. Delete bus
6. Record actual trip stop info
7. Exit

Choose an option: 1

Enter Trip Number: 101

Stop #1 | Sequence: 1 | Driving Time: 15 mins

Stop #2 | Sequence: 2 | Driving Time: 15 mins

Result Grid				
Filter Rows: <input type="text"/>				
Edit: 				
	TripNumber	StopNumber	SequenceNumber	DrivingTime
▶	101	1	1	15
	101	2	2	15
	102	3	1	20
	102	4	2	20
*	NULL	NULL	NULL	NULL

4. Display the weekly schedule of a given driver and date.

--- Transit Admin Menu ---

1. Display stops of a trip
2. Display weekly schedule of driver
3. Add driver
4. Add bus
5. Delete bus
6. Record actual trip stop info
7. Exit

Choose an option: 2

Enter Driver Name: Jane Smith

Enter Date (yyyy-mm-dd, will show week containing this date): 2025-05-04

Trip #102 | Date: 2025-05-02 | Start: 09:00:00 | Arrival: 11:30:00 | Bus: 2

Trip #101 | Date: 2025-05-03 | Start: 08:00:00 | Arrival: 09:00:00 | Bus: 2

Result Grid						
		Filter Rows:			Edit:	Export/Import:
	TripNumber	Date	ScheduledStartTime	ScheduledArrivalTime	DriverName	BusID
▶	101	2025-05-03	08:00:00	09:00:00	Jane Smith	2
	102	2025-05-02	09:00:00	11:30:00	Jane Smith	2
*	NULL	NULL	NULL	NULL	NULL	NULL

5. Add a drive.

--- Transit Admin Menu ---

1. Display stops of a trip
2. Display weekly schedule of driver
3. Add driver
4. Add bus
5. Delete bus
6. Record actual trip stop info
7. Exit

Choose an option: 3

Enter Driver Name: Will Doe

Enter Telephone Number: 123-456-7890

Driver added.

	DriverName	DriverTelephoneNumber
▶	Jane Smith	555-5678
	John Doe	555-1234
	Will Doe	123-456-7890
*	NULL	NULL

6. Add a bus.

```

--- Transit Admin Menu ---
1. Display stops of a trip
2. Display weekly schedule of driver
3. Add driver
4. Add bus
5. Delete bus
6. Record actual trip stop info
7. Exit
Choose an option: 4
Enter Bus ID: 3
Enter Model: Magic Schoolbus
Enter Year: 1997
Bus added.

```

	BusID	Model	Year
▶	1	Volvo 9700	2019
	2	Scania Touring	2020
	3	Magic Schoolbus	1997
✱	NULL	NULL	NULL

7. Delete a bus.

```

--- Transit Admin Menu ---
1. Display stops of a trip
2. Display weekly schedule of driver
3. Add driver
4. Add bus
5. Delete bus
6. Record actual trip stop info
7. Exit
Choose an option: 5
Enter Bus ID to delete: 3
Bus deleted.

```

	BusID	Model	Year
▶	1	Volvo 9700	2019
	2	Scania Touring	2020
✱	NULL	NULL	NULL

8. Record (insert) the actual data of a given trip offering specified by its key. The actual data include the attributes of the table ActualTripStopInfo.

1. Display stops of a trip
2. Display weekly schedule of driver
3. Add driver
4. Add bus
5. Delete bus
6. Record actual trip stop info
7. Exit

Enter Trip Number: 102

Enter Scheduled Start Time (HH:MM:SS): 09:00:00

Enter Scheduled Arrival Time (HH:MM:SS): 11:30:00

Enter Actual Arrival Time (HH:MM:SS): 11:20:00

Enter # of Passengers Out: 13

Actual trip stop info saved.

[illegible]