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CS 4350-01  
04/03/2025

#### Lab 4 Outputs - Pomona Transit System

Will be prompted for postgres username and password upon launching program.

```
○ Gerardos-Air:pomona-transit gerardogutierrez$ mvn exec:java -Dexec.mainClass="com.pomonatransit.App"
[INFO] Scanning for projects...
[INFO]
[INFO] -----< com.pomonatransit:pomona-transit >-----
[INFO] Building pomona-transit 1.0-SNAPSHOT
[INFO]    from pom.xml
[INFO] -----[ jar ]-----
[INFO]
[INFO] --- exec:3.5.0:java (default-cli) @ pomona-transit ---
Enter PostgreSQL username: postgres
Enter PostgreSQL password: 1234
Welcome to Pomona Transit.

Please select an option.
-----
1. Show trip offering schedule for start location and destination.
2. Show full trip offering schedule.
3. Delete a trip offering.
4. Add trip offering(s).
5. Change driver assigned to trip offering.
6. Change bus assigned to trip offering.
7. Display the stops for a trip.
8. Display a driver's schedule.
9. Add a new driver to list of drivers.
10. Add a bus to list of buses.
11. Remove bus from bus list.
12. Insert 'Actual Trip Stop Info'.
0. EXIT
```

# 1. Display trip offering for a given start location and destination and exit program.

```
● Gerardos-Air:pomona-transit gerardogutierrez$ mvn exec:java -Dexec.mainClass="com.pomonatransit.App"
[INFO] Scanning for projects...
[INFO]
[INFO] -----< com.pomonatransit:pomona-transit >-----
[INFO] Building pomona-transit 1.0-SNAPSHOT
[INFO] from pom.xml
[INFO] -----[ jar ]-----
[INFO]
[INFO] --- exec:3.5.0:java (default-cli) @ pomona-transit ---
Welcome to Pomona Transit.

Please select an option.

1. Show trip offering schedule for start location and destination.
2. Show full trip offering schedule.
3. Delete a trip offering.
4. Add trip offering(s).
5. Change driver assigned to trip offering.
6. Change bus assigned to trip offering.
7. Display the stops for a trip.
8. Display a driver's schedule.
9. Add a new driver to list of drivers.
10. Add a bus to list of buses.
11. Remove bus from bus list.
12. Insert 'Actual Trip Stop Info'.
0. EXIT

1

Enter the start location name of your desired trip:
el super
Enter the destination name of your desired trip:
sprouts farmers market
```

Trip #	Date	Start Location	Destination	Start Time	Arrival Time	Driver	Bus
	2025-04-01	el super	sprouts farmers market	08:00:00	08:20:00	ID001	BUS001
1	2025-04-02	el super	sprouts farmers market	08:00:00	08:20:00	ID001	BUS001
1	2025-04-03	el super	sprouts farmers market	08:00:00	08:20:00	ID001	BUS001
1	2025-04-04	el super	sprouts farmers market	08:00:00	08:20:00	ID001	BUS001
1	2025-04-05	el super	sprouts farmers market	08:00:00	08:20:00	ID001	BUS001
1	2025-04-06	el super	sprouts farmers market	08:00:00	08:20:00	ID001	BUS001

```
Please select an option.

1. Show trip offering schedule for start location and destination.
2. Show full trip offering schedule.
3. Delete a trip offering.
4. Add trip offering(s).
5. Change driver assigned to trip offering.
6. Change bus assigned to trip offering.
7. Display the stops for a trip.
8. Display a driver's schedule.
9. Add a new driver to list of drivers.
10. Add a bus to list of buses.
11. Remove bus from bus list.
12. Insert 'Actual Trip Stop Info'.
0. EXIT

1

Enter the start location name of your desired trip:
jupiter
Enter the destination name of your desired trip:
mars

No trip offerings found.

Please select an option.

1. Show trip offering schedule for start location and destination.
2. Show full trip offering schedule.
3. Delete a trip offering.
4. Add trip offering(s).
5. Change driver assigned to trip offering.
6. Change bus assigned to trip offering.
7. Display the stops for a trip.
8. Display a driver's schedule.
9. Add a new driver to list of drivers.
10. Add a bus to list of buses.
11. Remove bus from bus list.
12. Insert 'Actual Trip Stop Info'.
0. EXIT

0

Session Ended.
```

## 2. Modify trip\_offering table.

- a. Delete trip\_offering screenshot (top left). Notice that the trip offering for trip 1 on 2025-04-01 (from previous screenshot in #1) is no longer on the trip\_offering table.

Note that this is a partial screenshot of the output.

- b. The second screenshot (top right) is the message after successfully adding the same trip offering we just deleted back to the table.

The third screenshot (bottom) is the output after adding the same trip\_offering back to the table. (This is a cropped screenshot from the bottom of the table trip\_offerings after execution).

```
[INFO] --- exec:3.5.0:java (default-cli) @ pomona-transit ---
Welcome to Pomona Transit.

Please select an option.
=====
1. Show trip offering schedule for start location and destination.
2. Show full trip offering schedule.
3. Delete a trip offering.
4. Add trip offering(s).
5. Change driver assigned to trip offering.
6. Change bus assigned to trip offering.
7. Display the stops for a trip.
8. Display a driver's schedule.
9. Add a new driver to list of drivers.
10. Add a bus to list of buses.
11. Remove bus from bus list.
12. Insert 'Actual Trip Stop Info'.
0. EXIT

3
Enter the trip number of the trip offering you would like to delete:
1
Enter the date (YYYY-MM-DD) of the trip offering you would like to delete:
2025-04-01
Enter the time (hh:mm:ss) of the trip offering you would like to delete:
08:00:00

Updated Schedule:

Trip #   Date       Start Time   Arrival Time Driver   Bus
-----
1        2025-04-02   08:00:00     08:20:00   ID001    BUS001
1        2025-04-03   08:00:00     08:20:00   ID001    BUS001
1        2025-04-04   08:00:00     08:20:00   ID001    BUS001
1        2025-04-05   08:00:00     08:20:00   ID001    BUS001
1        2025-04-06   08:00:00     08:20:00   ID001    BUS001
```

```
Please select an option.
=====
1. Show trip offering schedule for start location and destination.
2. Show full trip offering schedule.
3. Delete a trip offering.
4. Add trip offering(s).
5. Change driver assigned to trip offering.
6. Change bus assigned to trip offering.
7. Display the stops for a trip.
8. Display a driver's schedule.
9. Add a new driver to list of drivers.
10. Add a bus to list of buses.
11. Remove bus from bus list.
12. Insert 'Actual Trip Stop Info'.
0. EXIT

4
Enter the following details of the new trip offering.

Trip Number:
1
Date (YYYY-MM-DD):
2025-04-01
Scheduled Start Time (hh:mm:ss):
08:00:00
Scheduled Arrival Time (hh:mm:ss):
08:20:00
Driver ID:
ID001
Bus ID:
BUS001
Trip offering successfully added!

12  2025-04-13  11:00:00  11:30:00  ID008  BUS008
13  2025-04-14  08:00:00  08:30:00  ID009  BUS009
14  2025-04-14  09:00:00  09:30:00  ID010  BUS010
15  2025-04-14  10:00:00  10:25:00  ID011  BUS011
1   2025-04-01  08:00:00  08:20:00  ID001  BUS001

Please select an option.
=====
1. Show trip offering schedule for start location and destination.
2. Show full trip offering schedule.
3. Delete a trip offering.
4. Add trip offering(s).
```

c. **Change Driver for trip\_offering.. Updated entry in last row of trip\_offering table. (Previous Driver was ID002)**

Welcome to Pomona Transit.

Please select an option.

1. Show trip offering schedule for start location and destination.
2. Show full trip offering schedule.
3. Delete a trip offering.
4. Add trip offering(s).
5. Change driver assigned to trip offering.
6. Change bus assigned to trip offering.
7. Display the stops for a trip.
8. Display a driver's schedule.
9. Add a new driver to list of drivers.
10. Add a bus to list of buses.
11. Remove bus from bus list.
12. Insert 'Actual Trip Stop Info'.
0. EXIT

5

Enter the trip number of the trip offering you would like modify:

2

Enter the date (YYY-MM-DD) of the trip offering you would like modify:

2025-04-02

Enter the scheduled start time (hh:mm:ss) of the trip offering you would like modify:

09:00:00

Enter the Driver ID of the new driver for this trip offering:

ID015

Successfully updated the driver for trip offering!

1. Show trip offering schedule for start location and destination.
2. Show full trip offering schedule.
3. Delete a trip offering.
4. Add trip offering(s).
5. Change driver assigned to trip offering.
6. Change bus assigned to trip offering.
7. Display the stops for a trip.
8. Display a driver's schedule.
9. Add a new driver to list of drivers.
10. Add a bus to list of buses.
11. Remove bus from bus list.
12. Insert 'Actual Trip Stop Info'.
0. EXIT

2

Trip #	Date	Start Time	Arrival Time	Driver	Bus
1	2025-04-02	08:00:00	08:20:00	ID001	BUS001
1	2025-04-03	08:00:00	08:20:00	ID001	BUS001
1	2025-04-04	08:00:00	08:20:00	ID001	BUS001
1	2025-04-05	08:00:00	08:20:00	ID001	BUS001
1	2025-04-06	08:00:00	08:20:00	ID001	BUS001
2	2025-04-01	09:00:00	09:20:00	ID002	BUS002
3	2025-04-01	10:00:00	10:25:00	ID003	BUS003
3	2025-04-02	10:00:00	10:25:00	ID003	BUS003
3	2025-04-03	10:00:00	10:25:00	ID003	BUS003
3	2025-04-04	10:00:00	10:25:00	ID003	BUS003
3	2025-04-05	10:00:00	10:25:00	ID003	BUS003
4	2025-04-01	11:00:00	11:25:00	ID004	BUS004
4	2025-04-02	11:00:00	11:25:00	ID004	BUS004
4	2025-04-03	11:00:00	11:25:00	ID004	BUS004
4	2025-04-04	11:00:00	11:25:00	ID004	BUS004
4	2025-04-05	11:00:00	11:25:00	ID004	BUS004
5	2025-04-06	12:00:00	12:25:00	ID005	BUS005
6	2025-04-06	13:00:00	13:30:00	ID006	BUS006
7	2025-04-06	14:00:00	14:25:00	ID007	BUS007
8	2025-04-07	08:00:00	08:20:00	ID008	BUS008
9	2025-04-07	09:00:00	09:30:00	ID009	BUS009
10	2025-04-07	10:00:00	10:30:00	ID010	BUS010
11	2025-04-08	08:30:00	08:50:00	ID011	BUS011
12	2025-04-08	09:30:00	09:55:00	ID012	BUS012
13	2025-04-08	10:30:00	11:00:00	ID013	BUS013
14	2025-04-08	11:30:00	12:00:00	ID014	BUS014
15	2025-04-08	12:30:00	13:00:00	ID015	BUS015
16	2025-04-09	08:00:00	08:30:00	ID016	BUS016
17	2025-04-09	09:00:00	09:25:00	ID017	BUS017
18	2025-04-09	10:00:00	10:30:00	ID018	BUS018
19	2025-04-09	11:00:00	11:20:00	ID019	BUS019
20	2025-04-10	08:00:00	08:25:00	ID020	BUS020
5	2025-04-10	09:00:00	09:20:00	ID001	BUS001
6	2025-04-10	10:00:00	10:30:00	ID002	BUS002
7	2025-04-11	08:00:00	08:25:00	ID003	BUS003
8	2025-04-11	09:00:00	09:30:00	ID004	BUS004
9	2025-04-12	08:30:00	09:00:00	ID005	BUS005
10	2025-04-12	09:30:00	10:00:00	ID006	BUS006
11	2025-04-13	10:00:00	10:30:00	ID007	BUS007
12	2025-04-13	11:00:00	11:30:00	ID008	BUS008
13	2025-04-14	08:00:00	08:30:00	ID009	BUS009
14	2025-04-14	09:00:00	09:30:00	ID010	BUS010
15	2025-04-14	10:00:00	10:25:00	ID011	BUS011
1	2025-04-01	08:00:00	08:20:00	ID001	BUS001
2	2025-04-02	09:00:00	09:20:00	ID015	BUS002

d. Change Bus for trip\_offering.

Output:

```
[m4] C:\Users\m4\OneDrive\Desktop> python3 pomona_transit.py
Welcome to Pomona Transit.

Please select an option.

-----
1. Show trip offering schedule for start location and destination.
2. Show full trip offering schedule.
3. Delete a trip offering.
4. Add trip offering(s).
5. Change driver assigned to trip offering.
6. Change bus assigned to trip offering.
7. Display the stops for a trip.
8. Display a driver's schedule.
9. Add a new driver to list of drivers.
10. Add a bus to list of buses.
11. Remove bus from bus list.
12. Insert 'Actual Trip Stop Info'.
0. EXIT

6
Enter the trip number of the trip offering you would like modify:
1
Enter the date (YYYY-MM-DD) of the trip offering you would like modify:
2025-04-02
Enter the scheduled start time (hh:mm:ss) of the trip offering you would like modify:
08:00:00
Enter the Bus ID of the new bus for this trip offering:
BUS011
Successfully updated the bus for trip offering!
```

Updated entry in last row of trip\_offering table (previous BusID was BUS001:

```
1. Show trip offering schedule for start location and destination.
2. Show full trip offering schedule.
3. Delete a trip offering.
4. Add trip offering(s).
5. Change driver assigned to trip offering.
6. Change bus assigned to trip offering.
7. Display the stops for a trip.
8. Display a driver's schedule.
9. Add a new driver to list of drivers.
10. Add a bus to list of buses.
11. Remove bus from bus list.
12. Insert 'Actual Trip Stop Info'.
0. EXIT

2

Trip #   Date       Start Time   Arrival Time Driver   Bus
-----
1        2025-04-03   08:00:00    08:20:00   ID001   BUS001
1        2025-04-04   08:00:00    08:20:00   ID001   BUS001
1        2025-04-05   08:00:00    08:20:00   ID001   BUS001
1        2025-04-06   08:00:00    08:20:00   ID001   BUS001
2        2025-04-01   09:00:00    09:20:00   ID002   BUS002
2        2025-04-01   10:00:00    10:25:00   ID003   BUS003
2        2025-04-02   10:00:00    10:25:00   ID003   BUS003
3        2025-04-03   10:00:00    10:25:00   ID003   BUS003
3        2025-04-04   10:00:00    10:25:00   ID003   BUS003
3        2025-04-05   10:00:00    10:25:00   ID003   BUS003
4        2025-04-01   11:00:00    11:25:00   ID004   BUS004
4        2025-04-02   11:00:00    11:25:00   ID004   BUS004
4        2025-04-03   11:00:00    11:25:00   ID004   BUS004
4        2025-04-04   11:00:00    11:25:00   ID004   BUS004
4        2025-04-05   11:00:00    11:25:00   ID004   BUS004
5        2025-04-06   12:00:00    12:25:00   ID005   BUS005
6        2025-04-06   13:00:00    13:30:00   ID006   BUS006
7        2025-04-06   14:00:00    14:25:00   ID007   BUS007
8        2025-04-07   08:00:00    08:20:00   ID008   BUS008
9        2025-04-07   09:00:00    09:30:00   ID009   BUS009
10       2025-04-07   10:00:00    10:30:00   ID010   BUS010
11       2025-04-08   08:30:00    08:50:00   ID011   BUS011
12       2025-04-08   09:30:00    09:55:00   ID012   BUS012
13       2025-04-08   10:30:00    11:00:00   ID013   BUS013
14       2025-04-08   11:30:00    12:00:00   ID014   BUS014
15       2025-04-08   12:30:00    13:00:00   ID015   BUS015
16       2025-04-09   08:00:00    08:30:00   ID016   BUS016
17       2025-04-09   09:00:00    09:25:00   ID017   BUS017
18       2025-04-09   10:00:00    10:30:00   ID018   BUS018
19       2025-04-09   11:00:00    11:20:00   ID019   BUS019
20       2025-04-10   08:00:00    08:25:00   ID020   BUS020
5        2025-04-10   09:00:00    09:20:00   ID001   BUS001
6        2025-04-10   10:00:00    10:30:00   ID002   BUS002
7        2025-04-11   08:00:00    08:25:00   ID003   BUS003
8        2025-04-11   09:00:00    09:30:00   ID004   BUS004
9        2025-04-12   08:30:00    09:00:00   ID005   BUS005
10       2025-04-12   09:30:00    10:00:00   ID006   BUS006
11       2025-04-13   10:00:00    10:30:00   ID007   BUS007
12       2025-04-13   11:00:00    11:30:00   ID008   BUS008
13       2025-04-14   08:00:00    08:30:00   ID009   BUS009
14       2025-04-14   09:00:00    09:30:00   ID010   BUS010
15       2025-04-14   10:00:00    10:25:00   ID011   BUS011
1        2025-04-01   08:00:00    08:20:00   ID001   BUS001
2        2025-04-02   09:00:00    09:20:00   ID015   BUS002
1        2025-04-02   08:00:00    08:20:00   ID001   BUS011

Please select an option.
```

3. Display the stops of a given trip.

```

Welcome to Pomona Transit.

Please select an option.
=====
1. Show trip offering schedule for start location and destination.
2. Show full trip offering schedule.
3. Delete a trip offering.
4. Add trip offering(s).
5. Change driver assigned to trip offering.
6. Change bus assigned to trip offering.
7. Display the stops for a trip.
8. Display a driver's schedule.
9. Add a new driver to list of drivers.
10. Add a bus to list of buses.
11. Remove bus from bus list.
12. Insert 'Actual Trip Stop Info'.
0. EXIT

7
Enter a trip number for the trip stop details:
1

Trip #   Stop #   Stop Address           Sequence #   Driving Time
-----
1        101      1234 1st Street        1           00:05:00
1        105      5678 5th Street        2           00:10:00
1        109      9012 9th Street        3           00:15:00

```

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

Please select an option.

- 1. Show trip offering schedule for start location and destination.
- 2. Show full trip offering schedule.
- 3. Delete a trip offering.
- 4. Add trip offering(s).
- 5. Change driver assigned to trip offering.
- 6. Change bus assigned to trip offering.
- 7. Display the stops for a trip.
- 8. Display a driver's schedule.
- 9. Add a new driver to list of drivers.
- 10. Add a bus to list of buses.
- 11. Remove bus from bus list.
- 12. Insert 'Actual Trip Stop Info'.
- 0. EXIT

8

Enter the driver ID for the driver's schedule you would like to view:

ID001

Enter the start date (YYYY-MM-DD) for the schedule you would like to view:

2025-04-01

Enter the end date (YYYY-MM-DD) for the schedule you would like to view:

2025-04-30

Trip #	Date	Start Time	Arrival Time	Driver	Bus
1	2025-04-03	08:00:00	08:20:00	ID001	BUS001
1	2025-04-04	08:00:00	08:20:00	ID001	BUS001
1	2025-04-05	08:00:00	08:20:00	ID001	BUS001
1	2025-04-06	08:00:00	08:20:00	ID001	BUS001
5	2025-04-10	09:00:00	09:20:00	ID001	BUS001
1	2025-04-01	08:00:00	08:20:00	ID001	BUS001
1	2025-04-02	08:00:00	08:20:00	ID001	BUS011

## 5. Add a driver to list of drivers.

```
Please select an option.
=====
1. Show trip offering schedule for start location and destination.
2. Show full trip offering schedule.
3. Delete a trip offering.
4. Add trip offering(s).
5. Change driver assigned to trip offering.
6. Change bus assigned to trip offering.
7. Display the stops for a trip.
8. Display a driver's schedule.
9. Add a new driver to list of drivers.
10. Add a bus to list of buses.
11. Remove bus from bus list.
12. Insert 'Actual Trip Stop Info'.
0. EXIT

9
Enter the driver ID of the driver you would like to add:
ID999
Enter the name of the driver you would like to add:
John Cena
Enter the phone number[(###)###-####] of the driver you would like to add:
(619)808-9090
Driver successfully added!
```

## Updated Table

```
pomona_transit=# select * from driver;
 driver_id | driver_name | driver_phone_number
-----+-----+-----
 ID001    | Alan Turing | (909)111-2345
 ID002    | Ada Lovelace | (909)222-3456
 ID003    | Katherine Johnson | (909)333-4567
 ID004    | Albert Einstein | (909)444-5678
 ID005    | Grace Hopper | (909)555-6789
 ID006    | Isaac Newton | (909)666-7890
 ID007    | Sofia Kovalevskaya | (909)777-8901
 ID008    | Marie Curie | (909)888-9012
 ID009    | Stephen Hawking | (909)999-0123
 ID010    | Leonhard Euler | (909)000-1234
 ID011    | Lionel Messi | (909)123-4567
 ID012    | Cristiano Ronaldo | (909)234-5678
 ID013    | Neymar Jr. | (909)345-6789
 ID014    | Erling Haaland | (909)456-7890
 ID015    | Kylian Mbappé | (909)567-8901
 ID016    | Marie-Sophie Germain | (909)678-9012
 ID017    | Hypatia | (909)789-0123
 ID018    | James Clerk Maxwell | (909)890-1234
 ID019    | Carl Gauss | (909)901-2345
 ID020    | Galileo Galilei | (909)012-3456
 ID999    | John Cena | (619)808-9090
(21 rows)
```



## 6. Remove a bus from the bus list.

Output:

```
Please select an option.
-----
1. Show trip offering schedule for start location and destination.
2. Show full trip offering schedule.
3. Delete a trip offering.
4. Add trip offering(s).
5. Change driver assigned to trip offering.
6. Change bus assigned to trip offering.
7. Display the stops for a trip.
8. Display a driver's schedule.
9. Add a new driver to list of drivers.
10. Add a bus to list of buses.
11. Remove bus from bus list.
12. Insert 'Actual Trip Stop Info'.
0. EXIT

10
Enter the bus ID of the bus you would like to add:
BUS999
Enter the model of the bus you would like to add:
SuperBus
Enter the year(YYYY) of the bus you would like to add:
2025
Bus successfully added!
```

Before

```
pomona_transit=# select * from bus;
 bus_id |      model      | year
-----+-----+-----
BUS001 | New Flyer XN40   | 2018
BUS002 | Gillig Low Floor | 2019
BUS003 | Nova Bus LFS     | 2020
BUS004 | Proterra Catalyst | 2021
BUS005 | BYD K9S          | 2022
BUS006 | Blue Bird All American | 2017
BUS007 | Thomas Saf-T-Liner | 2018
BUS008 | IC Bus CE Series | 2020
BUS009 | Van Hool A330    | 2021
BUS010 | Alexander Dennis Enviro500 | 2023
BUS011 | New Flyer XDE60  | 2017
BUS012 | Gillig BRT Plus  | 2018
BUS013 | Proterra ZX5     | 2021
BUS014 | BYD C10MS        | 2022
BUS015 | Nova Bus Hybrid  | 2019
BUS016 | IC Bus RE Series | 2016
BUS017 | Blue Bird Vision | 2020
BUS018 | Thomas C2        | 2019
BUS019 | Ford E-Transit   | 2023
BUS020 | ElDorado Axess   | 2021
(20 rows)
```

After

```
pomona_transit=# select * from bus;
 bus_id |      model      | year
-----+-----+-----
BUS001 | New Flyer XN40   | 2018
BUS002 | Gillig Low Floor | 2019
BUS003 | Nova Bus LFS     | 2020
BUS004 | Proterra Catalyst | 2021
BUS005 | BYD K9S          | 2022
BUS006 | Blue Bird All American | 2017
BUS007 | Thomas Saf-T-Liner | 2018
BUS008 | IC Bus CE Series | 2020
BUS009 | Van Hool A330    | 2021
BUS010 | Alexander Dennis Enviro500 | 2023
BUS011 | New Flyer XDE60  | 2017
BUS012 | Gillig BRT Plus  | 2018
BUS013 | Proterra ZX5     | 2021
BUS014 | BYD C10MS        | 2022
BUS015 | Nova Bus Hybrid  | 2019
BUS016 | IC Bus RE Series | 2016
BUS017 | Blue Bird Vision | 2020
BUS018 | Thomas C2        | 2019
BUS019 | Ford E-Transit   | 2023
BUS020 | ElDorado Axess   | 2021
BUS999 | SuperBus         | 2025
(21 rows)
```

## 7. Delete bus from list of buses.

Output:

```
Please select an option.
-----
1. Show trip offering schedule for start location and destination.
2. Show full trip offering schedule.
3. Delete a trip offering.
4. Add trip offering(s).
5. Change driver assigned to trip offering.
6. Change bus assigned to trip offering.
7. Display the stops for a trip.
8. Display a driver's schedule.
9. Add a new driver to list of drivers.
10. Add a bus to list of buses.
11. Remove bus from bus list.
12. Insert 'Actual Trip Stop Info'.
0. EXIT

11
Enter the bus ID for the bus you would like to delete:
BUS018
Successfully removed BUS018 from bus table.
```

Before

```
pomona_transit=# select * from bus;
 bus_id |      model      | year
-----+-----+-----
BUS001 | New Flyer XN40  | 2018
BUS002 | Gillig Low Floor | 2019
BUS003 | Nova Bus LFS    | 2020
BUS004 | Proterra Catalyst | 2021
BUS005 | BYD K9S         | 2022
BUS006 | Blue Bird All American | 2017
BUS007 | Thomas Saf-T-Liner | 2018
BUS008 | IC Bus CE Series | 2020
BUS009 | Van Hool A330   | 2021
BUS010 | Alexander Dennis Enviro500 | 2023
BUS011 | New Flyer XDE60 | 2017
BUS012 | Gillig BRT Plus | 2018
BUS013 | Proterra ZX5    | 2021
BUS014 | BYD C10MS       | 2022
BUS015 | Nova Bus Hybrid | 2019
BUS016 | IC Bus RE Series | 2016
BUS017 | Blue Bird Vision | 2020
BUS018 | Thomas C2       | 2019
BUS019 | Ford E-Transit  | 2023
BUS020 | ElDorado Axess  | 2021
BUS999 | SuperBus        | 2025
(21 rows)
```

After

```
pomona_transit=# select * from bus;
 bus_id |      model      | year
-----+-----+-----
BUS001 | New Flyer XN40  | 2018
BUS002 | Gillig Low Floor | 2019
BUS003 | Nova Bus LFS    | 2020
BUS004 | Proterra Catalyst | 2021
BUS005 | BYD K9S         | 2022
BUS006 | Blue Bird All American | 2017
BUS007 | Thomas Saf-T-Liner | 2018
BUS008 | IC Bus CE Series | 2020
BUS009 | Van Hool A330   | 2021
BUS010 | Alexander Dennis Enviro500 | 2023
BUS011 | New Flyer XDE60 | 2017
BUS012 | Gillig BRT Plus | 2018
BUS013 | Proterra ZX5    | 2021
BUS014 | BYD C10MS       | 2022
BUS015 | Nova Bus Hybrid | 2019
BUS016 | IC Bus RE Series | 2016
BUS017 | Blue Bird Vision | 2020
BUS019 | Ford E-Transit  | 2023
BUS020 | ElDorado Axess  | 2021
BUS999 | SuperBus        | 2025
(20 rows)
```

## 8. Insert actual trip stop info.

### Output

```
Please select an option.
-----
1. Show trip offering schedule for start location and destination.
2. Show full trip offering schedule.
3. Delete a trip offering.
4. Add trip offering(s).
5. Change driver assigned to trip offering.
6. Change bus assigned to trip offering.
7. Display the stops for a trip.
8. Display a driver's schedule.
9. Add a new driver to list of drivers.
10. Add a bus to list of buses.
11. Remove bus from bus list.
12. Insert 'Actual Trip Stop Info'.
0. EXIT

12
Enter the following details of the actual trip stop info you would like to insert.

Trip Number:
1
Date (YYYY-MM-DD):
2025-04-02
Scheduled Start Time (hh:mm:ss):
08:00:00
Stop Number:
105
Scheduled Arrival Time (hh:mm:ss):
08:10:00
Actual Start Time (hh:mm:ss):
08:02:34
Number of Passengers In:
22
Number of Passengers Out:
4
Actual trip info successfully inserted!
```

### Before and after execution.

```
pomona_transit=# select * from actual_trip_stop_info;
trip_number | date | scheduled_start_time | stop_number | scheduled_arrival_time | actual_start_time | number_of_passengers_in | number_of_passengers_out
-----
(0 rows)

trip_number | date | scheduled_start_time | stop_number | scheduled_arrival_time | actual_start_time | number_of_passengers_in | number_of_passengers_out
-----
1 | 2025-04-02 | 08:00:00 | 105 | 08:10:00 | 08:02:34 | 22 | 4
(1 row)
```