

1 task

The screenshot shows the pgAdmin 4 interface with the following details:

- Object Explorer:** The tree view shows the database structure. The 'airline' table is selected under the 'public' schema.
- Query Editor:** The SQL query is as follows:

```
5891
5892
5893 --lab 8
5894 --1
5895 --without error
5896 BEGIN;
5897 DELETE FROM boarding_pass WHERE booking_id = 500;
5898 DELETE FROM baggage_check WHERE booking_id = 500;
5899 DELETE FROM booking_flight WHERE booking_id = 500;
5900 DELETE FROM booking WHERE booking_id = 500;
5901 COMMIT;
5902
5903 SELECT *FROM booking where booking_id = 500;
5904
5905
5906
5907
5908
```
- Data Output:** The table structure is displayed with the following columns: booking_id (PK) integer, passenger_id integer, booking_platform character varying (50), created_at date, update_at date, status character varying (50), price numeric (7,2), and ticket_discount integer.
- Status Bar:** Shows 'Total rows: 0' and 'Query complete 00:00:00.056'.
- Notification:** A yellow message box states: 'You are currently running version 9.6 of pgAdmin 4, however the current version is 9.9. Please click [here](#) for more information.'

The screenshot shows the pgAdmin 4 interface with the following details:

- Object Explorer:** The tree view shows the database structure. The 'airline' table is selected under the 'public' schema.
- Query Editor:** The SQL query is as follows:

```
5902
5903 SELECT *FROM booking where booking_id = 500;
5904
5905 --with error
5906 BEGIN;
5907 DELETE FROM boarding_pass WHERE booking_id = 5;
5908 DELETE FROM baggage_check WHERE booking_id = 5;
5909 DELETE FROM booking_flight WHERE booking_id = 5;
5910 DELETE FROM booking WHERE booking_id = 5;
5911
5912 SELECT * FROM pass;
5913 ROLLBACK;
5914
5915 SELECT * FROM booking WHERE booking_id = 5;
5916
5917
5918
5919
```
- Data Output:** The table structure is displayed with the following columns: booking_id (PK) integer, passenger_id integer, booking_platform character varying (50), created_at date, update_at date, status character varying (50), price numeric (7,2), and ticket_discount integer. The data output shows one row:

booking_id	passenger_id	booking_platform	created_at	update_at	status	price	ticket_discount
1	5	79	Fisher-McGlynn	2023-04-25	2023-04-02	Male	5435.95
- Status Bar:** Shows 'Total rows: 1' and 'Query complete 00:00:00.150'.
- Notification:** A yellow message box states: 'You are currently running version 9.6 of pgAdmin 4, however the current version is 9.9. Please click [here](#) for more information.'

2 task

Object Explorer

- Triggers
- Columns
- Constraints
- Indexes
- RLS Policies
- Rules
- Triggers
- flights
 - Columns (14)
 - flight_id
 - flight_no
 - scheduled_departure
 - scheduled_arrival
 - departure_airport_id
 - arrival_airport_id
 - departing_gate
 - arriving_gate
 - airline_id
 - status
 - actual_departure
 - actual_arrival
 - created_at
 - update_at
- passengers
 - Columns (10)
 - passenger_id
 - first_name
 - last_name
 - date_of_birth
 - gender
 - country_of_citizenship

Query History

```

5914 SELECT * FROM booking WHERE booking_id = 5;
5915
5916
5917
5918 --2
5919 BEGIN;
5920 UPDATE flights SET scheduled_departure = '2025-12-09'
5921 WHERE flight_id = 1000;
5922 COMMIT;
5923
5924 SELECT * FROM flights WHERE flight_id = 1000;
5925
5926
5927
5928
5929
5930
5931

```

Data Output Messages Notifications

flight_id [PK] integer	flight_no character varying (50)	scheduled_departure date	scheduled_arrival date	departure_airport_id integer	arrival_airport_id integer	departing_gate character varying (50)	arriving_gate character varying (50)	airline_id integer	status character varying
1	1000	US-IL	2025-12-09	2024-03-07	9	4	768	29	22 Delayed

Total rows: 1 Query complete 00:00:00.056

You are currently running version 9.6 of pgAdmin 4, however the current version is 9.9.

Please click [here](#) for more information.

CRLF Ln 5926, Col 1

Object Explorer

- Triggers
- Columns
- Constraints
- Indexes
- RLS Policies
- Rules
- Triggers
- flights
 - Columns (14)
 - flight_id
 - flight_no
 - scheduled_departure
 - scheduled_arrival
 - departure_airport_id
 - arrival_airport_id
 - departing_gate
 - arriving_gate
 - airline_id
 - status
 - actual_departure
 - actual_arrival
 - created_at
 - update_at
- passengers
 - Columns (10)
 - passenger_id
 - first_name
 - last_name
 - date_of_birth
 - gender
 - country_of_citizenship

Query History

```

5922 COMMIT;
5923
5924
5925 SELECT * FROM flights WHERE flight_id = 1000;
5926
5927 BEGIN;
5928 UPDATE flights
5929 SET scheduled_departure = '2026-11-09'
5930 WHERE flight_id = 1000;
5931
5932 SELECT * FROM tabl1;
5933
5934 ROLLBACK;
5935
5936 SELECT * FROM flights WHERE flight_id = 1000;
5937
5938
5939
5940

```

Data Output Messages Notifications

flight_id [PK] integer	flight_no character varying (50)	scheduled_departure date	scheduled_arrival date	departure_airport_id integer	arrival_airport_id integer	departing_gate character varying (50)	arriving_gate character varying (50)	airline_id integer	status character varying
1	1000	US-IL	2025-12-09	2024-03-07	9	4	768	29	22 Delayed

Total rows: 1 Query complete 00:00:00.103

You are currently running version 9.6 of pgAdmin 4, however the current version is 9.9.

Please click [here](#) for more information.

CRLF Ln 5939, Col 1

3 task

PostgreSQL 17 Query Editor

Query:

```

--4
BEGIN;
SELECT * FROM passengers
WHERE passenger_id = 1
FOR UPDATE;

UPDATE passengers
SET country_of_citizenship = 'Sweden',
    country_of_residence = 'Singapore'
WHERE passenger_id = 1;

SELECT * FROM passengers WHERE passenger_id = 1;
COMMIT;
--5

```

Data Output:

passenger_id	first_name	last_name	date_of_birth	gender	country_of_citizenship	country_of_residence	passport_number	created_at	update_at
1	Hilde	Imis	2000-01-03	Female	Sweden	Singapore	382385347-3	2023-11-25	2024-03-07

Total rows: 1 Query complete 00:00:00.116

5 task

PostgreSQL 17 Query Editor

Query:

```

WHERE booking_id IN (SELECT bf.booking_id FROM booking_flight bf
WHERE bf.flight_id = 10);

--S
BEGIN;
INSERT INTO passengers(passenger_id,first_name,last_name,date_of_birth,gender, country_of_citizenship,
country_of_residence,passport_number,created_at,update_at)
VALUES(203, 'Stefan', 'Salvatore', '1985-08-16', 'Male', 'Canada', 'USA', '8546931559-0', NOW(), NOW())
INSERT INTO booking(booking_id, passenger_id, booking_platform, created_at, update_at, status, price, t
VALUES (601,203,'Hagenes-Klein', NOW(), NOW(), 'Male', 4555.6, NULL );
COMMIT;

SELECT *FROM passengers p
JOIN booking b ON p.passenger_id = b.passenger_id
WHERE p.passenger_id = 203

```

Data Output:

passenger_id	first_name	last_name	date_of_birth	gender	country_of_citizenship	country_of_residence	passport_number	created_at	update_at
1	203	Stefan	Salvatore	1985-08-16	Male	Canada	USA	8546931559-0	2025-11-21

Total rows: 1 Query complete 00:00:00.071

You are currently running version 9.6 of pgAdmin 4, however the current version is 9.9. Please click [here](#) for more information.

6 task

7 task

8 task

The screenshot shows the PostgreSQL Enterprise Studio interface. The Object Explorer on the left displays the database structure, including tables like `baggage_check`, `boarding_pass`, and `booking`. The main query editor contains the following SQL code:

```

6013 join passengers p on p.passenger_id = b.passenger_id
6014 where p.first_name = 'Zerc' and p.last_name = 'Dusey'
6015
6016 --8
6017 BEGIN;
6018 UPDATE booking
6019 SET ticket_discount = 0.9
6020 WHERE passenger_id = 35;
6021 ROLLBACK;
6022
6023
6024
6025 --9
6026 BEGIN;
6027
6028 SELECT 1 FROM flights WHERE flight_id = 20 FOR UPDATE;
6029 UPDATE booking_flight
6030 SET flight_id = 20

```

The Data Output pane at the bottom shows the message: "Query returned successfully in 84 msec." The status bar at the bottom indicates "Total rows: Query complete 00:00:00.084" and "CRLF Ln 6024, Col 1".

9 task

The screenshot shows the PostgreSQL Enterprise Studio interface. The Object Explorer on the left displays the database structure, including tables like `airline`. The main query editor contains the following SQL code:

```

5449
5450
5451
5452 --9
5453 BEGIN;
5454 SELECT * FROM booking_flight WHERE flight_id = 20;
5455 UPDATE booking_flight SET flight_id = 20 WHERE flight_id = 12;
5456 COMMIT;
5457
5458 SELECT * FROM booking_flight WHERE flight_id = 20;
5459
5460
5461
5462
5463
5464
5465
5466
5467
5468
5469
5470
5471
5472

```

The Data Output pane at the bottom shows the message: "Query returned successfully in 66 msec." The status bar at the bottom indicates "Total rows: Query complete 00:00:00.066" and "CRLF Ln 5453, Col 1".