**Codes**

CREATE TABLE airport(

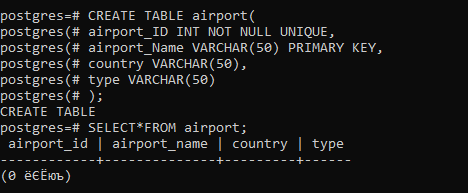
airport\_ID INT NOT NULL UNIQUE,

airport\_Name VARCHAR(50) PRIMARY KEY,

country VARCHAR(50),

type VARCHAR(50)

);



***Figure 1.* Creating table “airport”.**

CREATE TABLE aircraft(

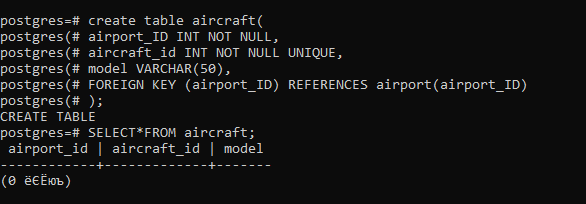
airport\_ID INT NOT NULL,

aircraft\_id INT NOT NULL UNIQUE,

model VARCHAR(50),

FOREIGN KEY (airport\_ID) REFERENCES airport(airport\_ID)

);



***Figure 2.* Creating table “aircraft”.**

CREATE TABLE flight(

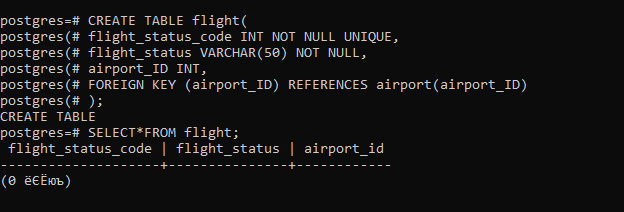
flight\_status\_code INT NOT NULL UNIQUE,

flight\_status VARCHAR(50) NOT NULL,

airport\_ID INT,

FOREIGN KEY (airport\_ID) REFERENCES airport(airport\_ID)

);



***Figure 3.* Creating table “Flight”**

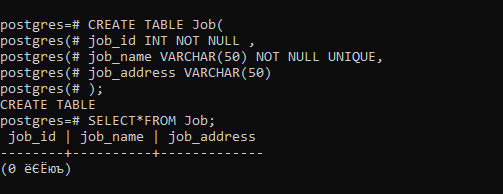
CREATE TABLE Job(

job\_id INT NOT NULL ,

job\_name VARCHAR(50) NOT NULL UNIQUE,

job\_address VARCHAR(50)

);



***Figure 4*. Creating table “Job”**

CREATE TABLE employee(

employee\_ID INT NOT NULL,

employee\_Name VARCHAR(50) NOT NULL,

airport\_Name VARCHAR(50) NOT NULL,

job\_Name VARCHAR(50) NOT NULL,

salary INT NOT NULL,

employee\_address VARCHAR(50) NOT NULL,

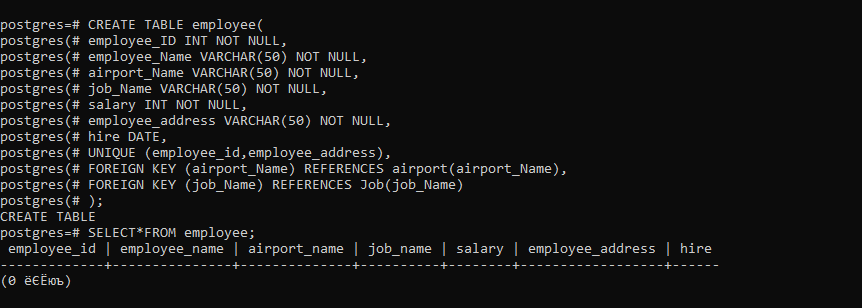
hire DATE,

UNIQUE (employee\_id,employee\_address),

FOREIGN KEY (airport\_Name) REFERENCES airport(airport\_Name),

FOREIGN KEY (job\_Name) REFERENCES Job(job\_Name)

);



***Figure 5.* Creating table “employee”**

CREATE TABLE passengers(

airport\_id INT NOT NULL,

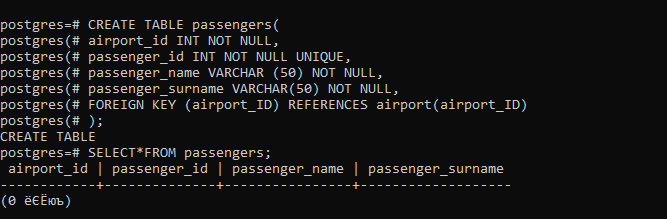
passenger\_id INT NOT NULL UNIQUE,

passenger\_name VARCHAR (50) NOT NULL,

passenger\_surname VARCHAR(50) NOT NULL,

FOREIGN KEY (airport\_ID) REFERENCES airport(airport\_ID)

);



***Figure 6*. Creating table “passengers”**

CREATE TABLE tickets (

order\_number INT NOT NULL,

passenger\_id INT NOT NULL,

passenger\_name VARCHAR(50),

passenger\_surName VARCHAR(50),

total\_price INT ,

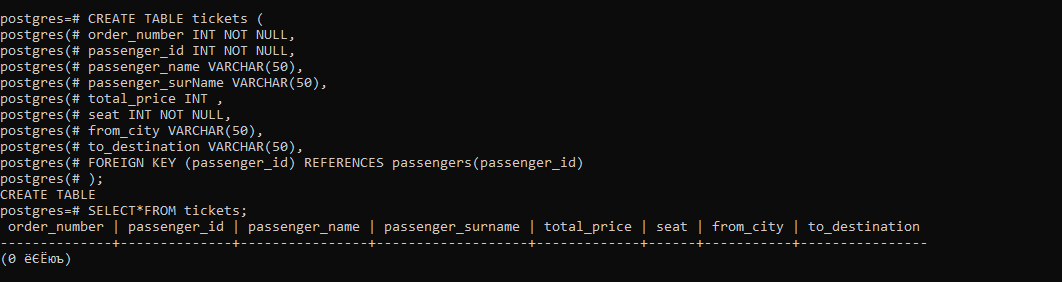
seat INT NOT NULL,

from\_city VARCHAR(50),

to\_destination VARCHAR(50),

FOREIGN KEY (passenger\_id) REFERENCES passengers(passenger\_id)

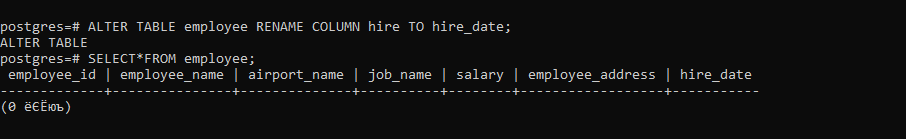
);



***Figure 7*. Creating table “Tickets”.**

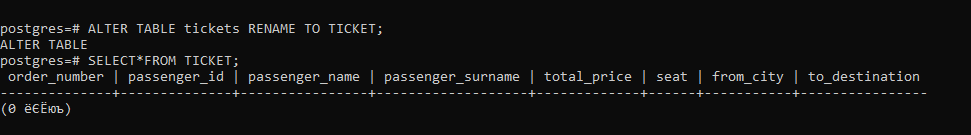
**ALTER STATEMENTS**

ALTER TABLE employee RENAME COLUMN hire TO hire\_date;



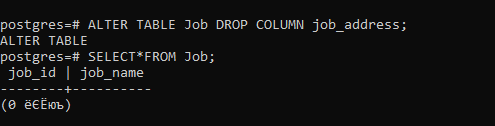
***Figure 8*. ALTER statements**

ALTER TABLE tickets RENAME TO TICKET;



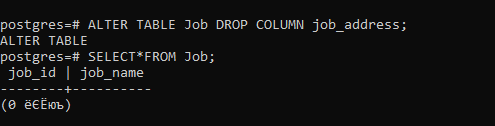
***Figure 9.* ALTER statements**

ALTER TABLE Job DROP COLUMN job\_address;



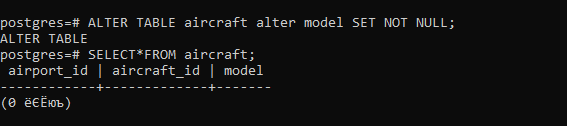
***Figure 10.* ALTER statements**

ALTER TABLE passengers ADD COLUMN age INT;



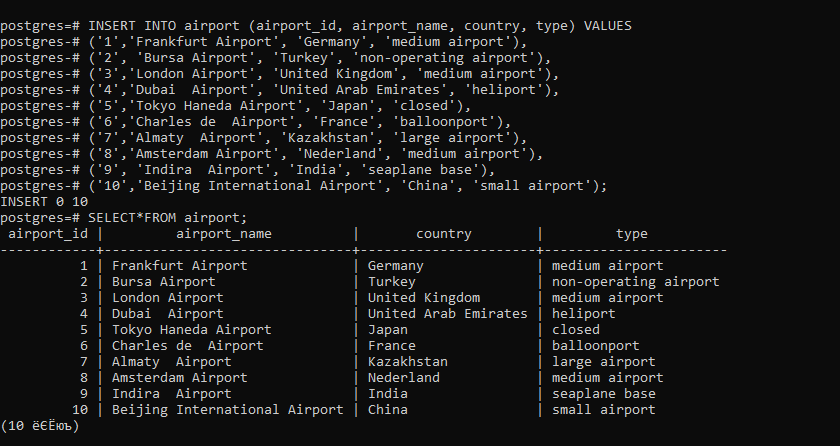
***Figure 11.* ALTER statements**

ALTER TABLE aircraft alter model SET NOT NULL;

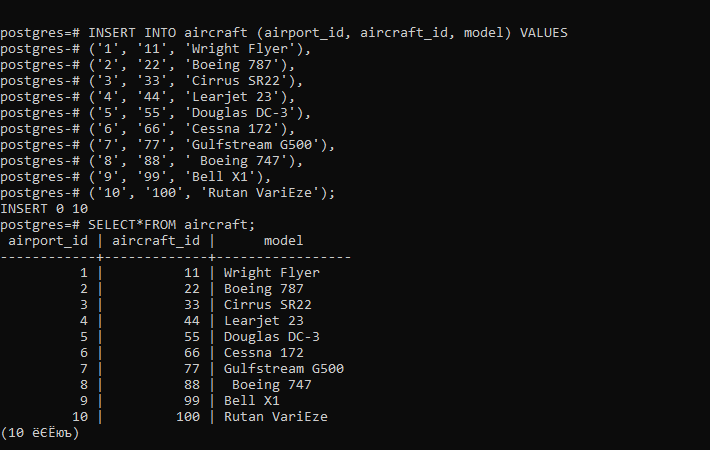


***Figure 12*. ALTER statements**

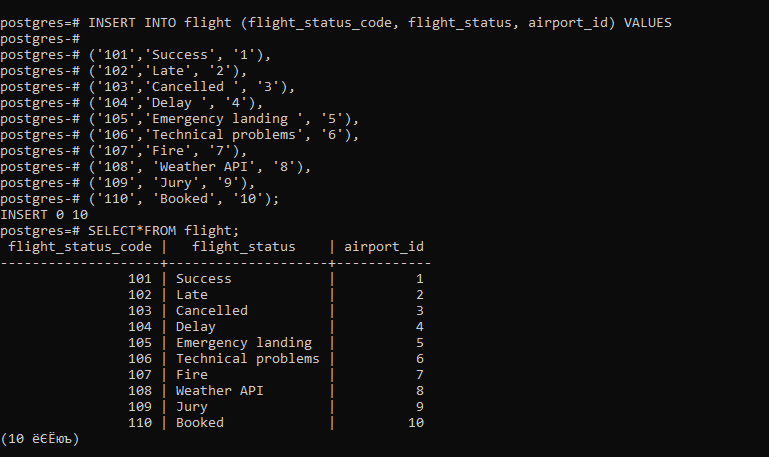
**INSERT**



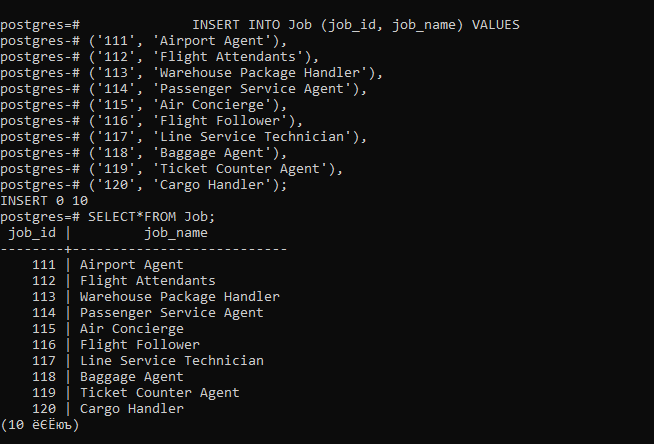
***Figure 13*. Inserting data to table “Airport”.**



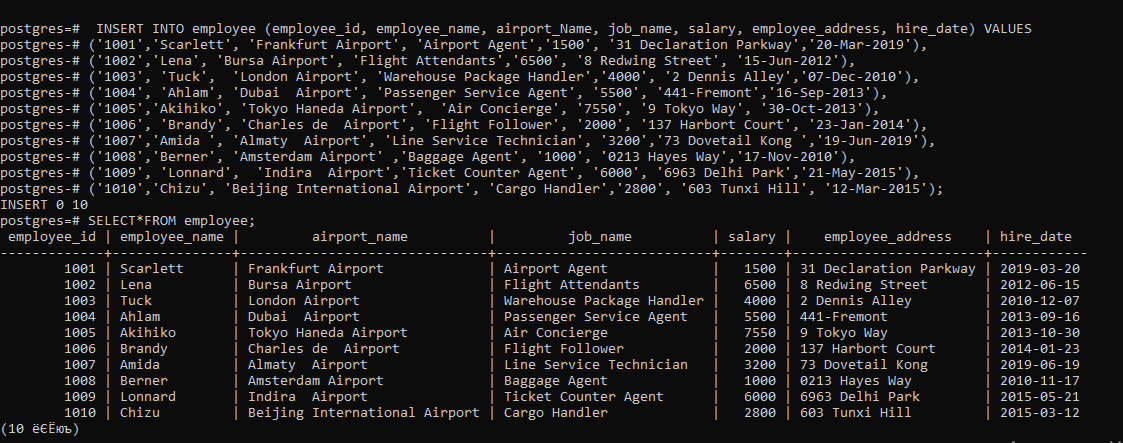
***Figure 14*. Inserting data to table “Aircraft”.**



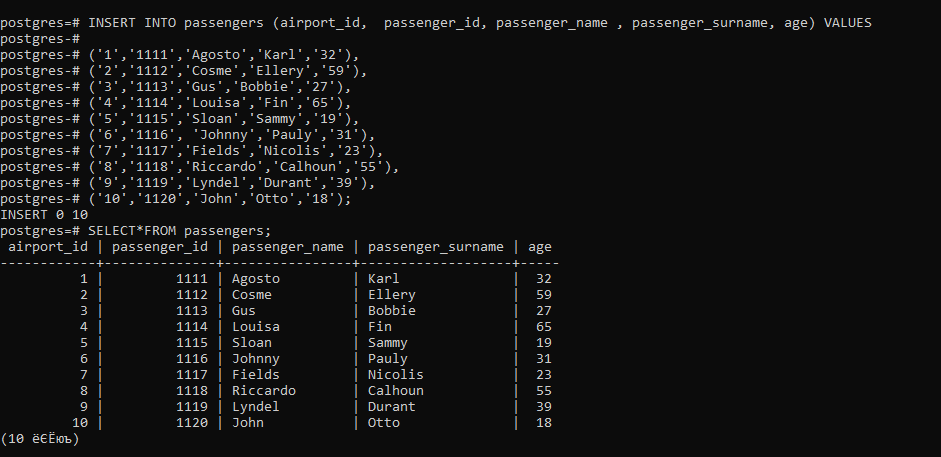
***Figure 15*. Inserting data to table “Flight.”**



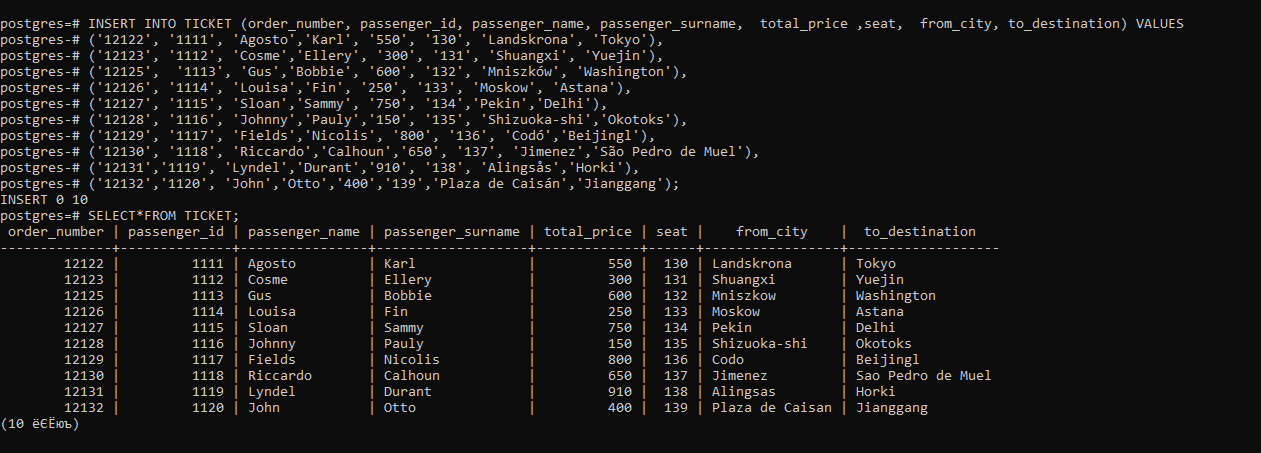
***Figure 16*. Inserting data to table “Job”.**



***Figure 17*. Inserting data to table “employee”.**



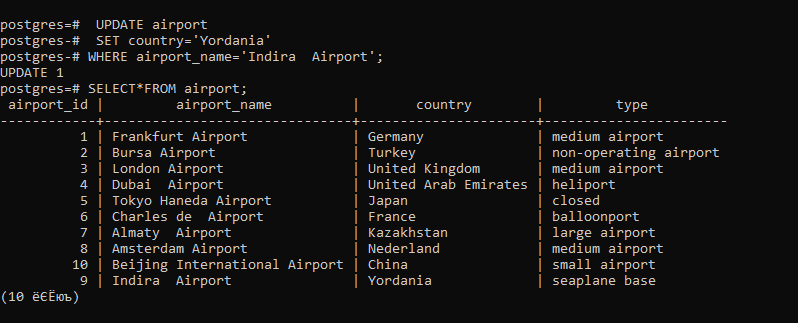
***Figure 18*. Inserting data to table “passengers”.**



***Figure 19*. Inserting data to table “TICKET”.**

**UPDATE**

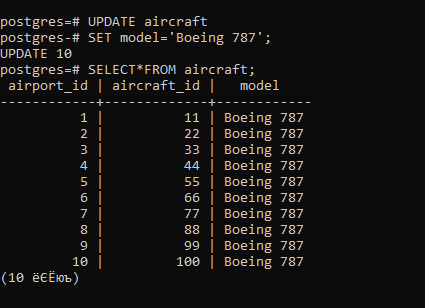
 UPDATE airport  
 SET country='Yordania'  
WHERE airport\_name='Indira Airport';

****

***Figure 20*. Update data of table “airport”.**

UPDATE aircraft

SET model='Boeing 787';

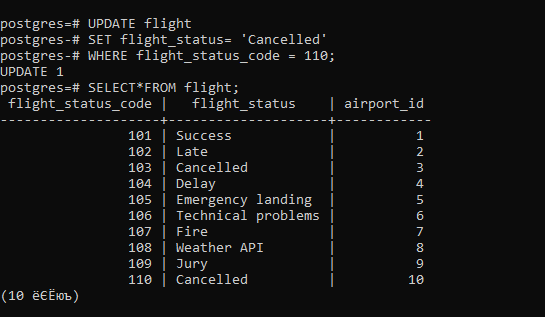
****

***Figure 21*. Update data of table “aircraft”.**

UPDATE flight

SET flight\_status= 'Cancelled'

WHERE flight\_status\_code = 110;



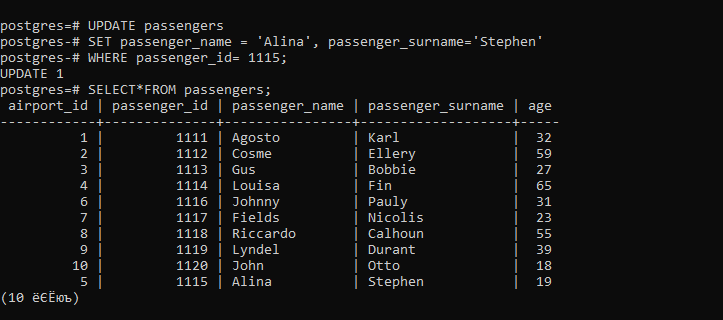
***Figure 22*. Update data of table “flight”.**

UPDATE employee  
SET salary = 7000.00;



***Figure 23*. Update data of table “employee”.**

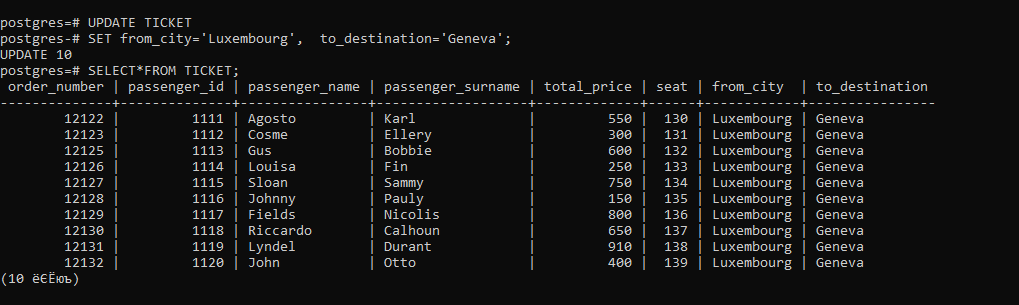
UPDATE passengers  
SET passenger\_name = 'Alina', passenger\_surname='Stephen'  
WHERE passenger\_id= 1115;

****

***Figure 24*. Update data of table “passengers”.**

UPDATE TICKET

SET from\_city='Luxembourg', to\_destination='Geneva';

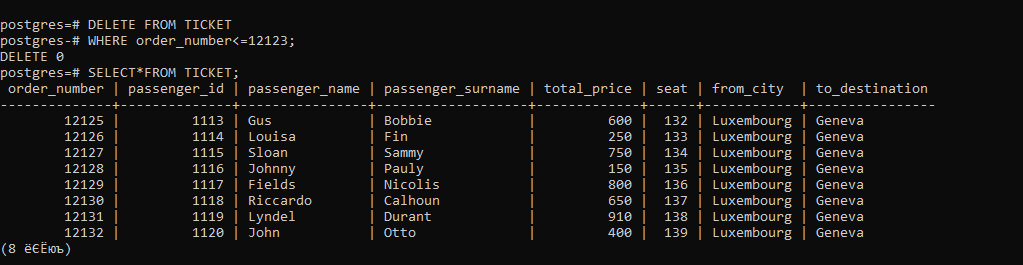
****

***Figure 25*. Update data of table “TICKET”.**

**DELETE**

DELETE FROM TICKET

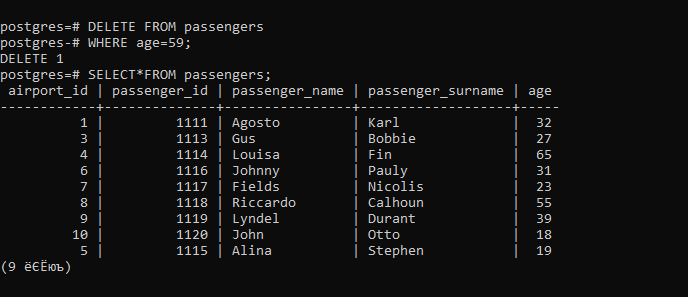
WHERE order\_number<=12123;



***Figure 26.* Delete data from table “TICKET”.**

DELETE FROM passengers

WHERE age=59;



***Figure 27.* Delete data from table “passengers”.**

DELETE FROM employee

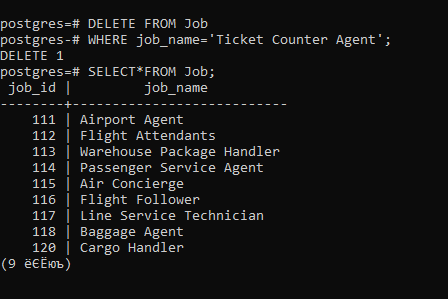
WHERE employee\_id = 1009;



***Figure 28.* Delete data from table “employee”.**

DELETE FROM Job

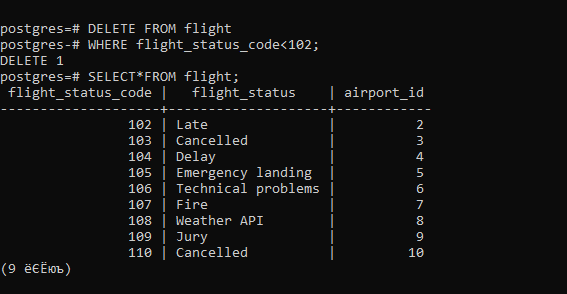
WHERE job\_name='Ticket Counter Agent';



***Figure 29.* Delete data from table “Job”.**

DELETE FROM flight

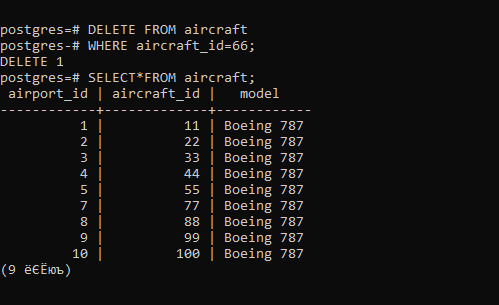
WHERE flght\_status\_code<102;



***Figure 30.* Delete data from table “flight”.**

DELETE FROM aircraft

WHERE aircraft\_id=66;

****

***Figure 31.* Delete data from table “aircraft”.**

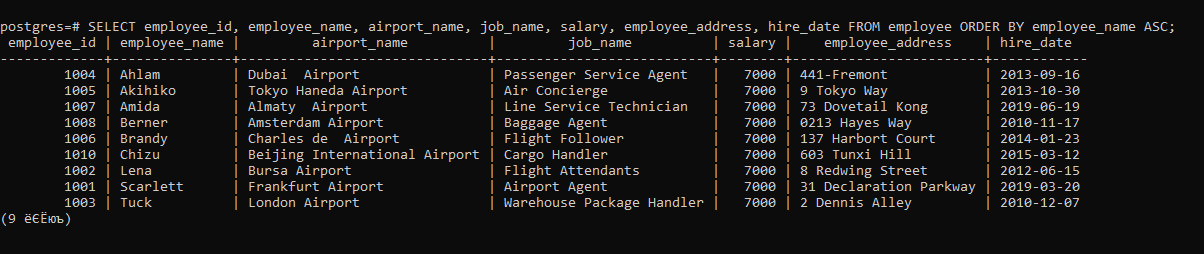
**QUERIES**

SELECT\*FROM airport  
WHERE airport\_id BETWEEN 2 AND 10;



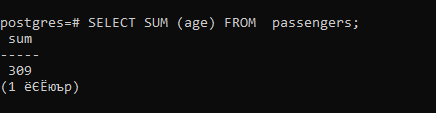
*Figure 32.* Query shows airport\_id between 2 and 10

SELECT employee\_id, employee\_name, airport\_name, job\_name, salary, employee\_address, hire\_date FROM employee ORDER BY employee\_name ASC;



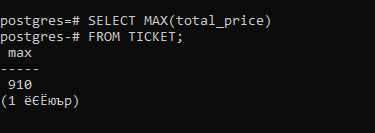
*Figure 33.* Query shows ASC each employee\_name

SELECT SUM (age) FROM passengers;



*Figure 34.* Query shows SUM(age) passengers

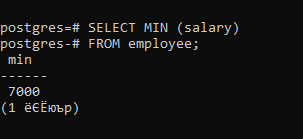
SELECT MAX(total\_price)  
FROM TICKET;



*Figure 35.* Query shows MAX salary in each TICKET

SELECT MIN (salary)

FROM employee;



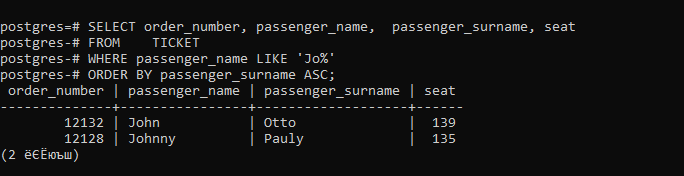
*Figure 36.* Query shows min salary in each employee

SELECT order\_number, passenger\_name, passenger\_surname, seat

FROM TICKET

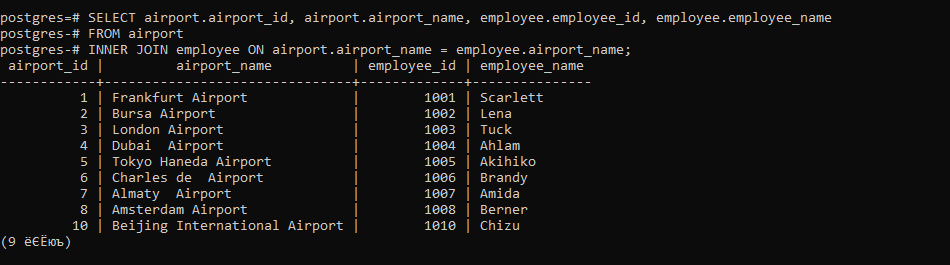
WHERE passenger\_name LIKE 'Jo%'

ORDER BY passenger\_surname ASC;



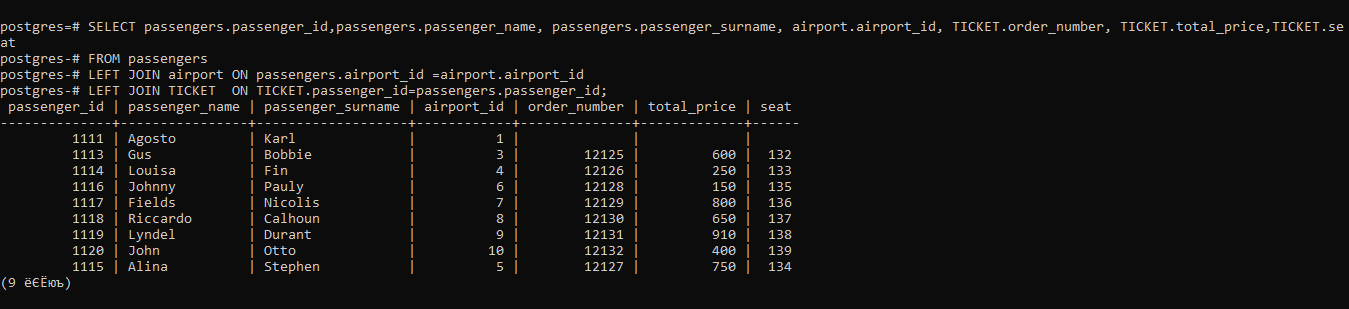
*Figure 37.* Query shows LIKE “JO%”

SELECT airport.airport\_id, airport.airport\_name, employee.employee\_id, employee.employee\_name  
FROM airport  
INNER JOIN employee ON airport.airport\_name = employee.airport\_name;



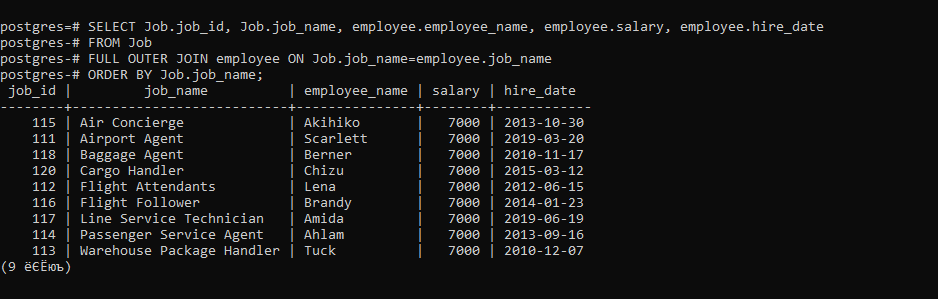
*Figure 38.* Query which shows information about airport of each employee.

SELECT passengers.passenger\_id,passengers.passenger\_name, passengers.passenger\_surname, airport.airport\_id, TICKET.order\_number, TICKET.total\_price,TICKET.seat  
FROM passengers  
LEFT JOIN airport ON passengers.airport\_id =airport.airport\_id  
LEFT JOIN TICKET ON TICKET.passenger\_id=passengers.passenger\_id;



***Figure 39.* Query of showing passenger\_name and passenger\_id of each Ticket**

SELECT Job.job\_id, Job.job\_name, employee.employee\_name, employee.salary, employee.hire\_date  
FROM Job  
FULL OUTER JOIN employee ON Job.job\_name=employee.job\_name  
ORDER BY Job.job\_name;



*Figure 40.* Query which shows information about Job of each employee.

**5 SUBQUERIES.**

SELECT job\_id, job\_name

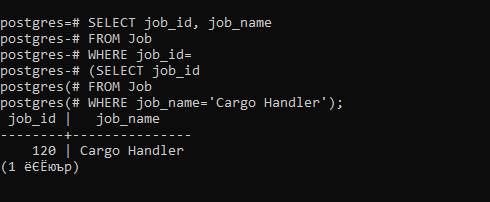
FROM Job

WHERE job\_id=

(SELECT job\_id

FROM Job

WHERE job\_name='Cargo Handler');



*Figure 41. 1st Result from Database Using SQL*

SELECT employee\_id, employee\_name, job\_name, salary, hire\_date

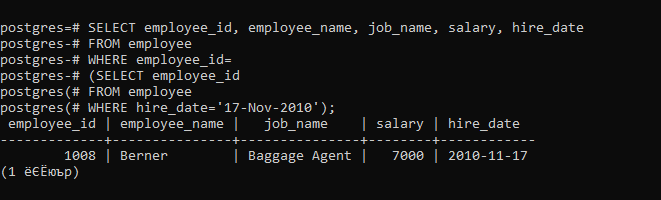
FROM employee

WHERE employee\_id=

(SELECT employee\_id

FROM employee

WHERE hire\_date='17-Nov-2010');



*Figure 42. 2nd Result from Database Using SQL*

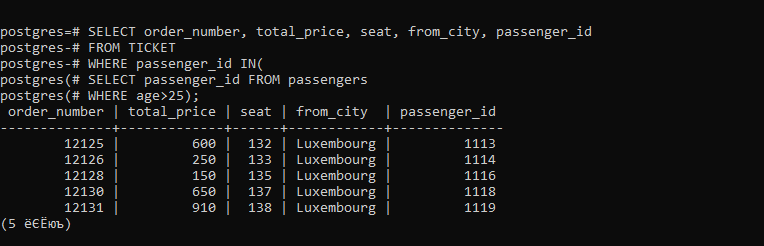
SELECT order\_number, total\_price, seat, from\_city, passenger\_id

FROM TICKET

WHERE passenger\_id IN(

SELECT passenger\_id FROM passengers

WHERE age>25);



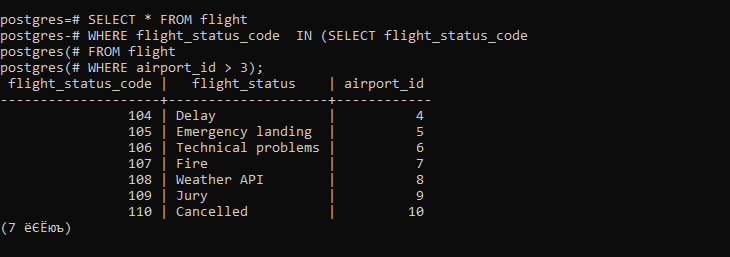
*Figure 43. 3RD Result from Database Using SQL*

SELECT \* FROM flight

WHERE flight\_status\_code IN (SELECT flight\_status\_code

FROM flight

WHERE airport\_id > 3);

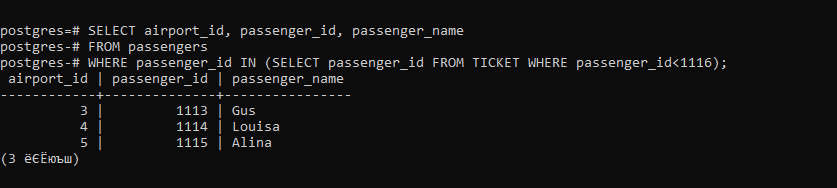


*Figure 44. 4th Result from Database Using SQL*

SELECT airport\_id, passenger\_id, passenger\_name

FROM passengers

WHERE passenger\_id IN (SELECT passenger\_id FROM TICKET WHERE passenger\_id<1116);



*Figure 45. 5th Result from Database Using SQL*