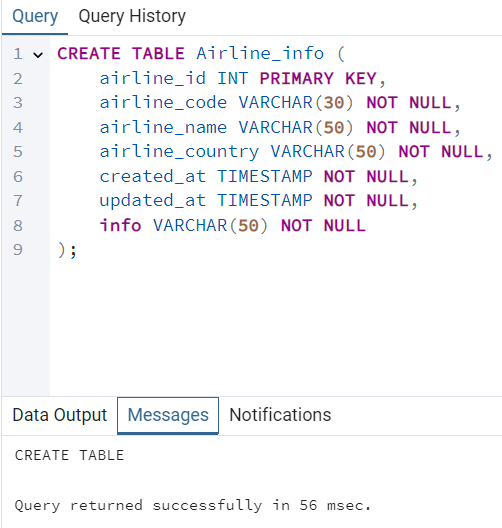
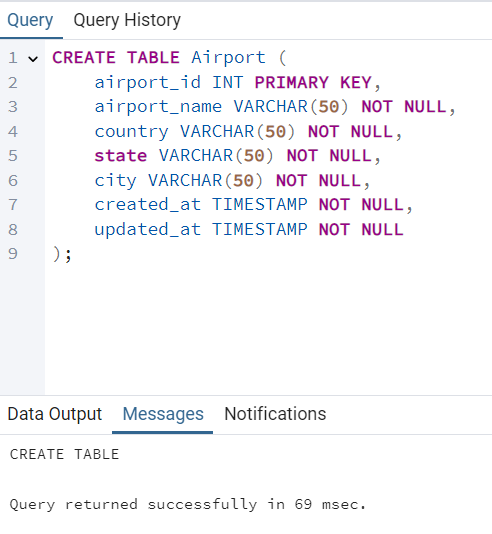
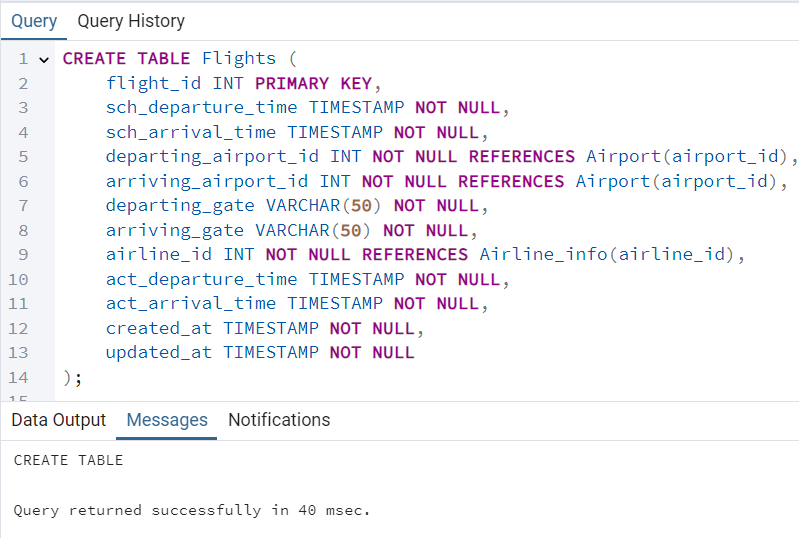
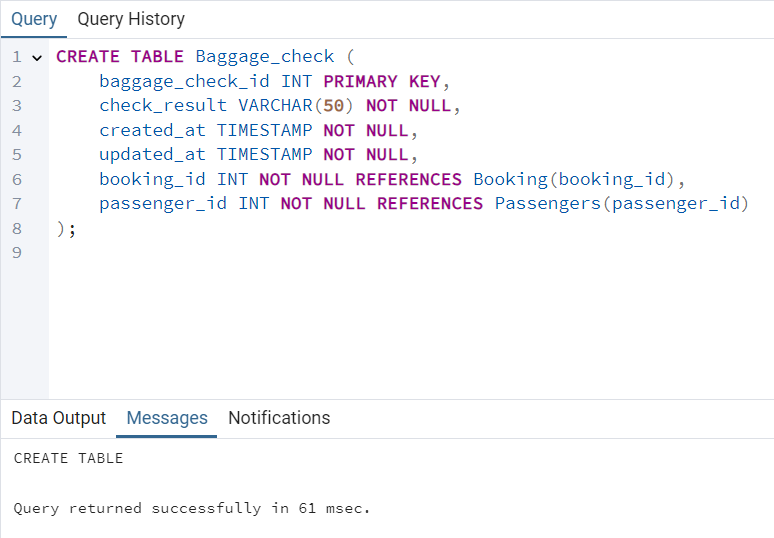
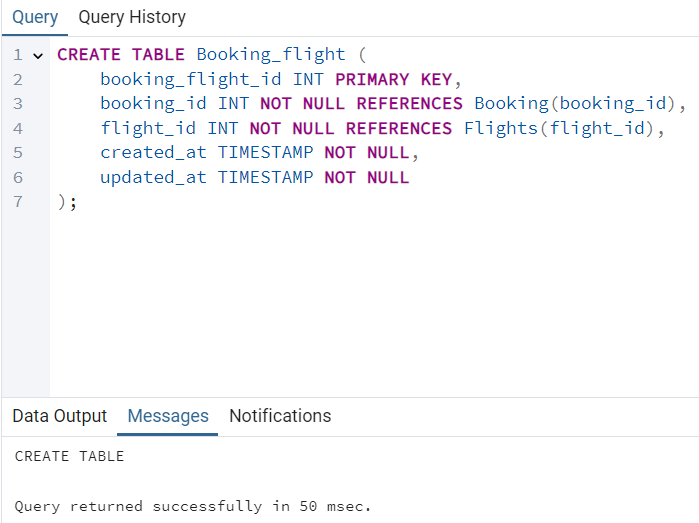
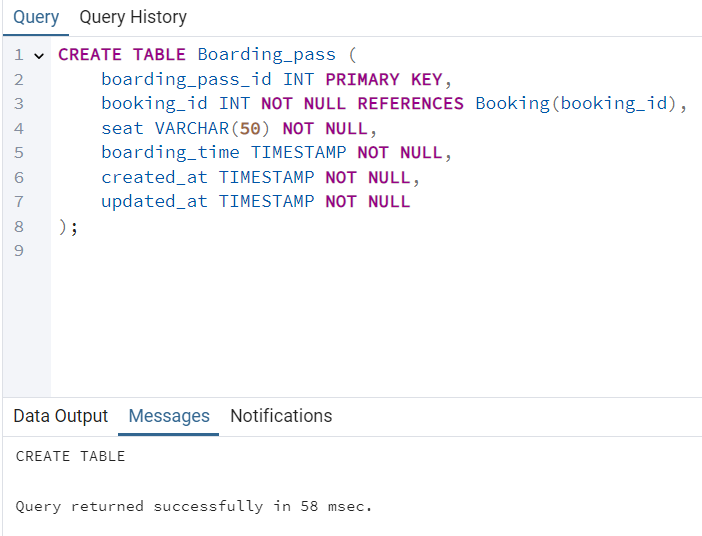
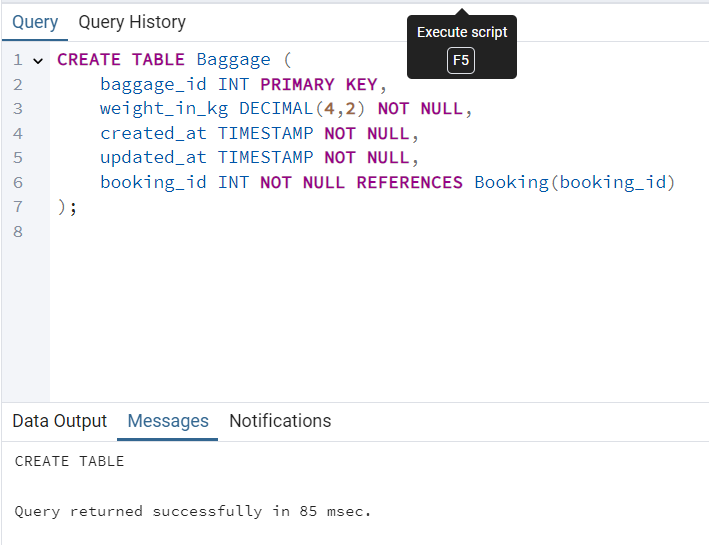
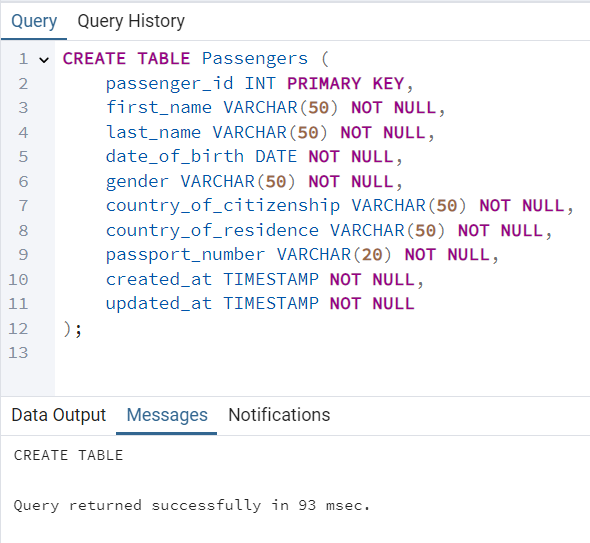
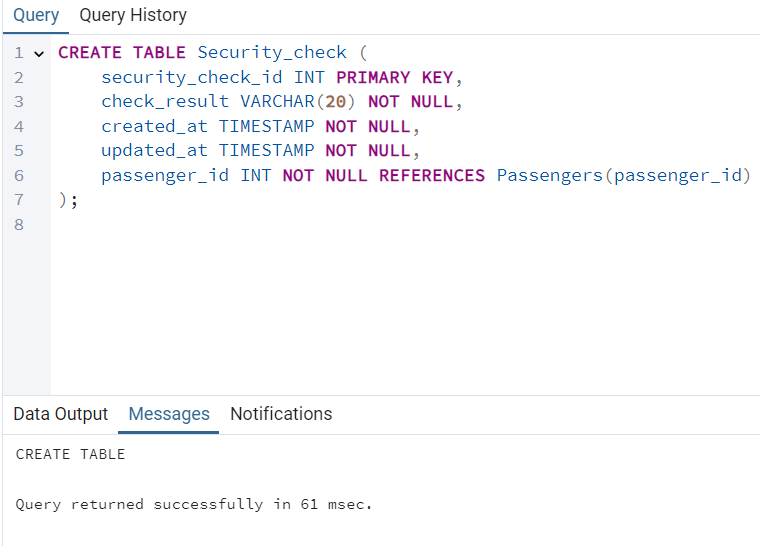
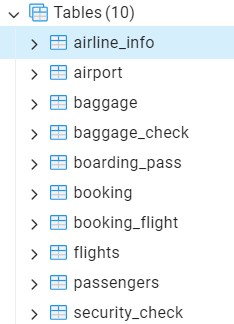
**Laboratory work #2**

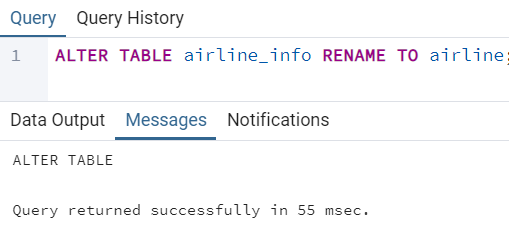
Submission format: word or pdf document containing screenshots of your tasks with answers that covers full-page screenshots (Alt+PrtSc).

**DDL**

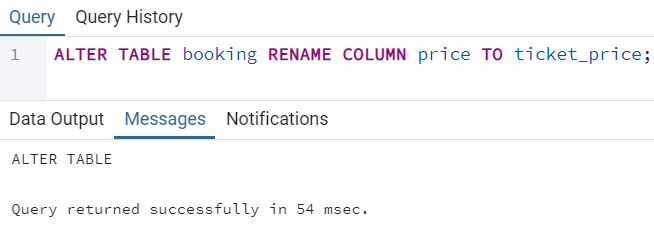
1. Create following tables with corresponding attributes:

* **Airline\_info:** airline\_id (int), airline\_code (varchar (30)),airline\_name (varchar(50)),airline\_country(varchar(50)), created\_at(timestamp), updated\_at(timestamp), info(varchar(50) ;
* ****
* **Airport**: airport\_id(int), airport\_name (varchar(50)),country (varchar(50)), state (varchar(50)), city(varchar(50)), created\_at(timestamp), updated\_at(timestamp) ;
* **Flights**: flight\_id(int), sch\_departure\_time(timestamp), sch\_arrival\_time(timestamp), departing\_airport\_id(int), arriving\_airport\_id(int), departing\_gate(varchar(50)), arriving\_gate(varchar(50)), airline\_id(int), act\_departure\_time(timestamp), act\_arrival\_time(timestamp), created\_at(timestamp), updated\_at(timestamp) ;
* ****
* **Booking:** booking\_id(int), flight\_id(int), passenger\_id(int), booking\_platform(varchar(50)), created\_at(timestamp), updated\_at(timestamp), status(varchar(50)), price(decimal(7,2));
* ****
* **Baggage\_check:** baggage\_check\_id(int), check\_result (varchar(50)), created\_at(timestamp), updated\_at(timestamp), booking\_id(int), passenger\_id(int);
* ****
* **Booking\_flight:** booking\_flight\_id(int), booking\_id(int), flight\_id(int), created\_at(timestamp), updated\_at(timestamp);
* ****
* **Boarding\_pass:** boarding\_pass\_id(int), booking\_id(int), seat (varchar(50)), boarding\_time(timestamp), created\_at(timestamp), updated\_at(timestamp);
* ****
* **Baggage:** baggage\_id(int), weight\_in\_kg (decimal(4,2)), created\_at(timestamp, updated\_at(timestamp) , booking\_id(int);
* ****
* **Passengers:** passenger\_id(int), first\_name(varchar(50)), last\_name(varchar(50)), date\_of\_birth(date), gender(varchar(50)), country\_of\_citizenship(varchar(50)), country\_of\_residence(varchar(50)), passport\_number(varchar(20)), created\_at(timestamp), updated\_at(timestamp) ;
* ****
* **Security\_check**: security\_check\_id(int), check\_result(varchar(20)), created\_at(timestamp), updated\_at(timestamp), passenger\_id(int);
* ****
* ****

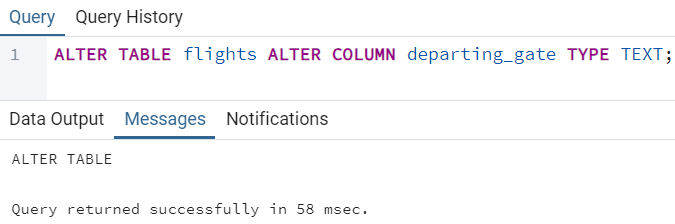
1. Define Primary Keys for each tables;**Completed**
2. Define for all attributes not null constraint;**Completed**
3. Rename airline\_info table to  airline;

****

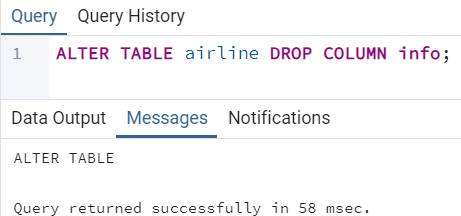
1. Rename column price  to ticket\_price in booking table;

****

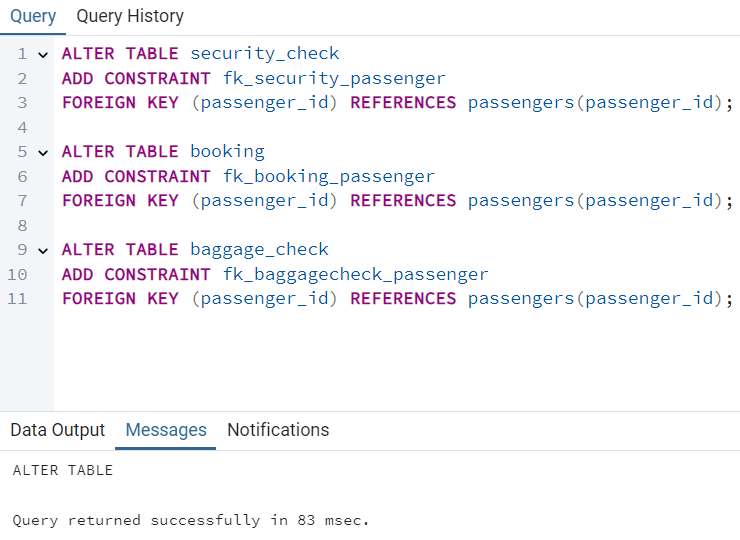
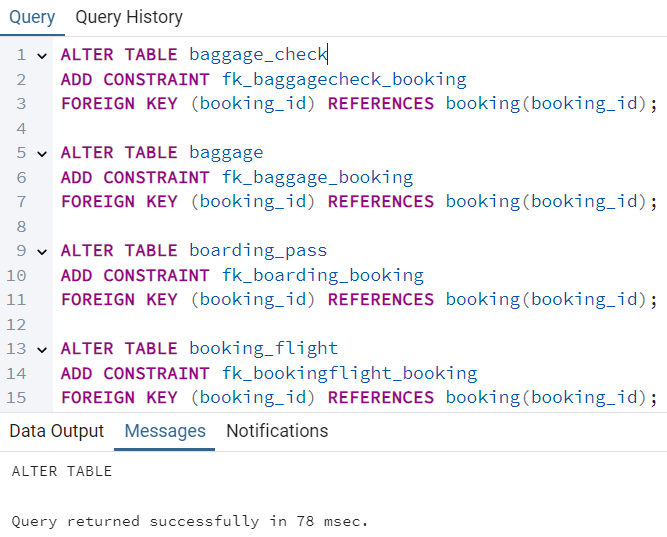
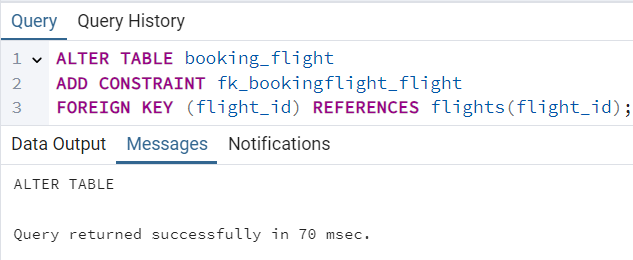
1. Change data type of departing\_gate from varchar(50) to text;

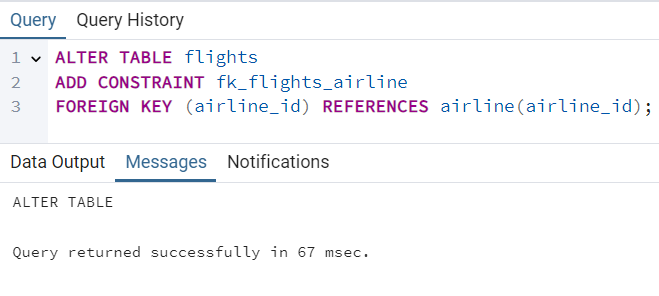
****

1. Drop the column info(varchar(50)) from the airline table.

****

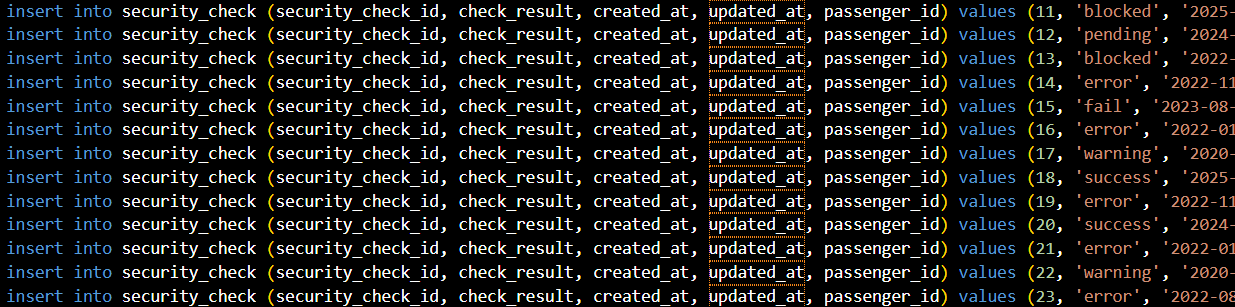
1. Make a relationship between following tables:

* Passengers with Secuitiry\_check, Booking, Baggage\_check by passenger\_id;
* 
* Booking with Baggage\_check, Baggage, Boarding\_pass, Booking\_flight by booking\_id;
* 
* Flights with Booking\_flight by flight\_id;
* 
* Airport with Flights by departing\_airport\_id;
* Airport with Flights by arriving\_airport\_id;
* 
* Airline with Flights by airline\_id;

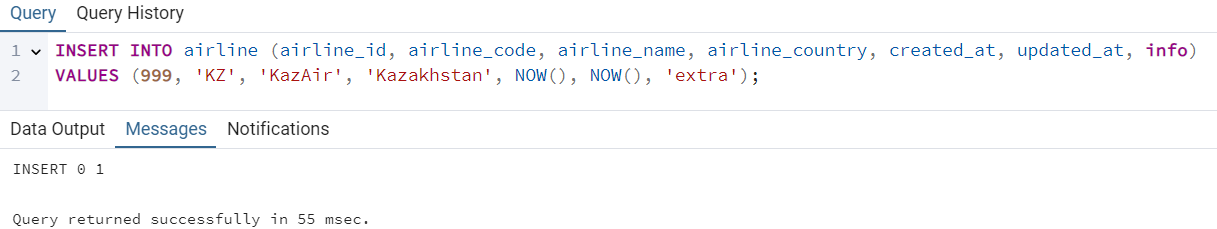


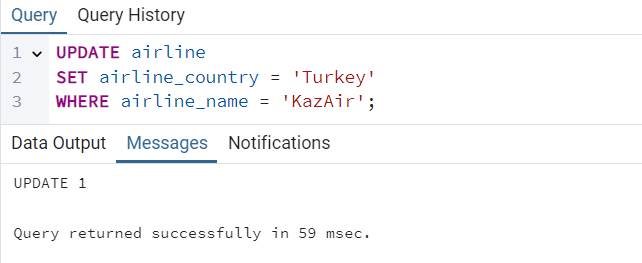
**DML**

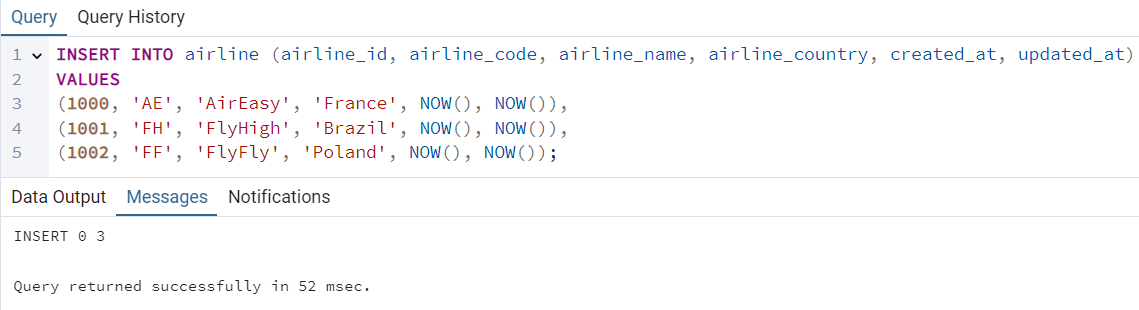
1. Generate and insert 200 random rows in your airport database.



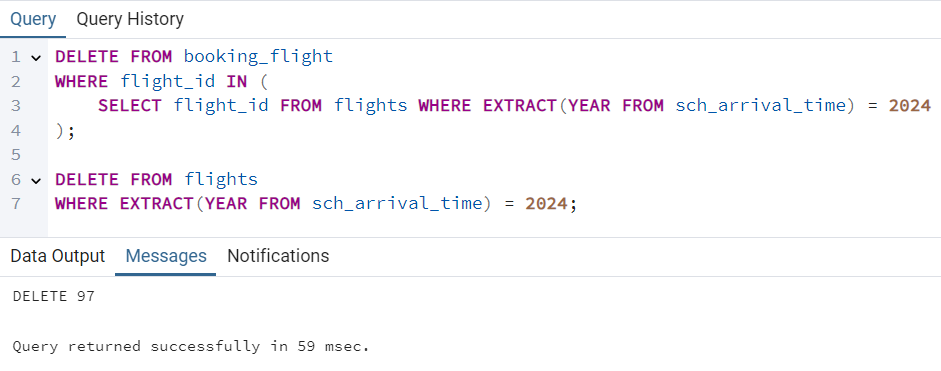
1. Add a new airline named "KazAir" based in "Kazakhstan" to the airline table.



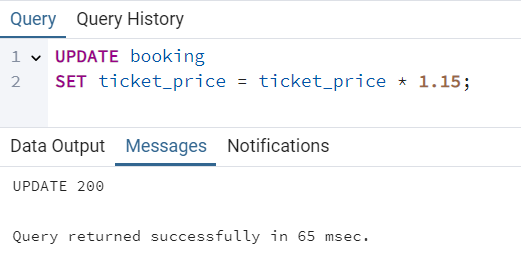
1. Update the airline country "KazAir" to "Turkey".
2. Add three airlines at once: "AirEasy" in "France", "FlyHigh" in "Brazil" and "FlyFly" in "Poland".



1. Delete all flights whose arrival in 2024 year.



1. Increase the price of all tickets in booking table for flights by 15%.



1. Delete all tickets where price is less than 10000. 