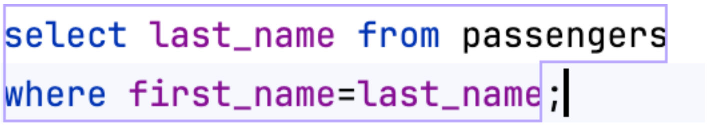
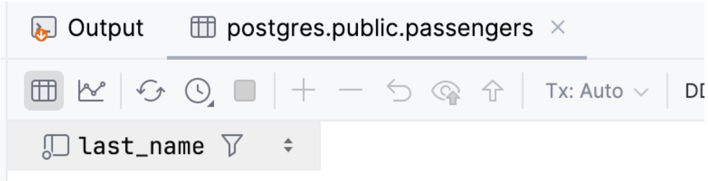
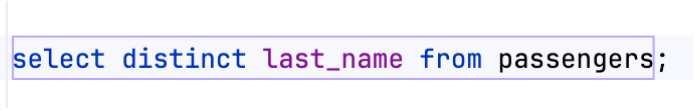
Lab 3

1. 

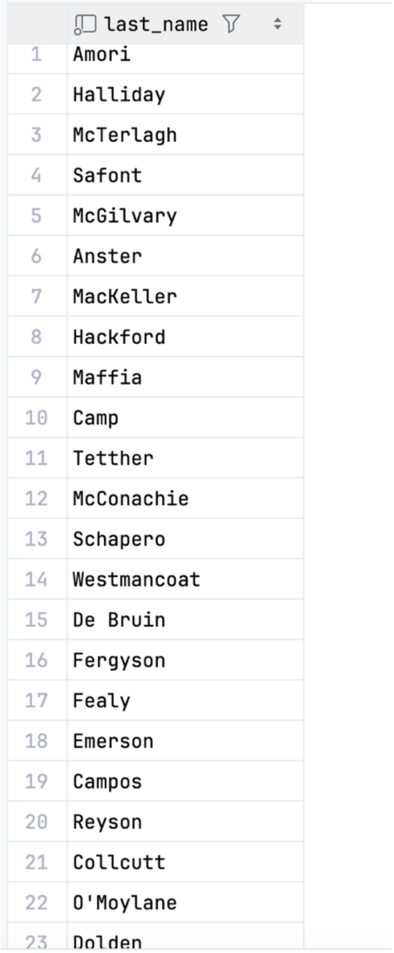
```
select last_name from passengers
where first_name=last_name;
```



There are no people with same last and first names.

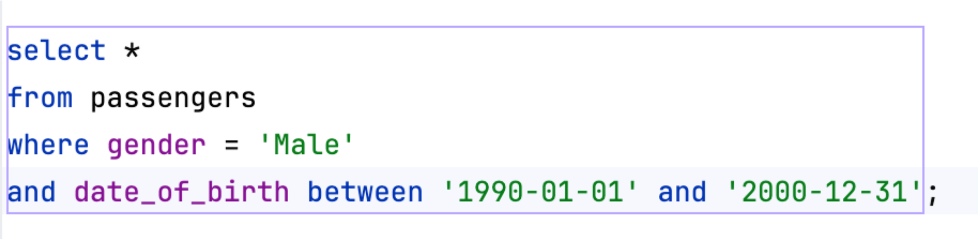
2. 

```
select distinct last_name from passengers;
```

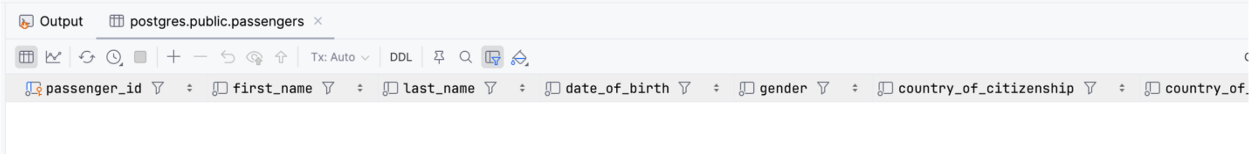


	last_name
1	Amori
2	Halliday
3	McTerlagh
4	Safont
5	McGilvary
6	Anster
7	MacKeller
8	Hackford
9	Maffia
10	Camp
11	Tetther
12	McConachie
13	Schapero
14	Westmancoat
15	De Bruin
16	Fergyson
17	Fealy
18	Emerson
19	Campos
20	Reyson
21	Collcutt
22	O'Moylane
23	Dolden

3.



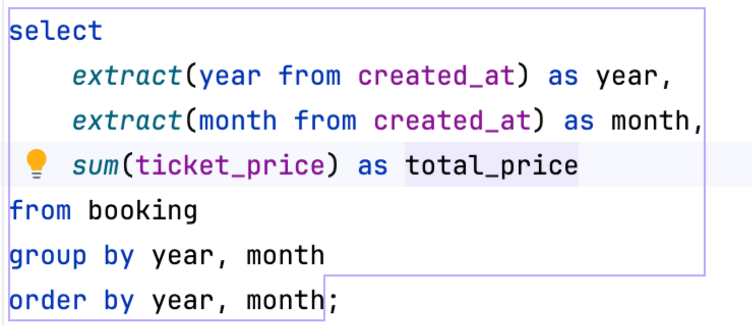
```
select *
from passengers
where gender = 'Male'
and date_of_birth between '1990-01-01' and '2000-12-31';
```



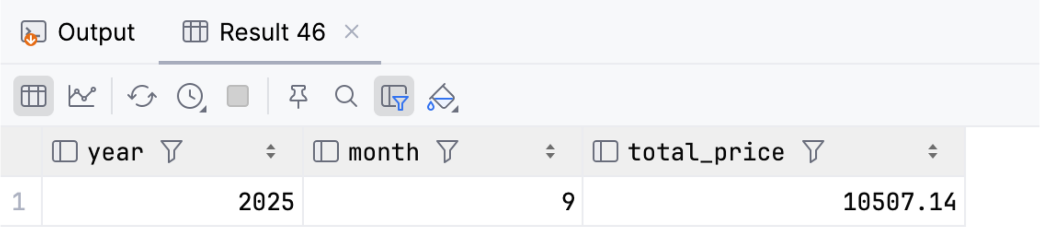
passenger_id	first_name	last_name	date_of_birth	gender	country_of_citizenship	country_of_

All the people were born after 2000s.

4.



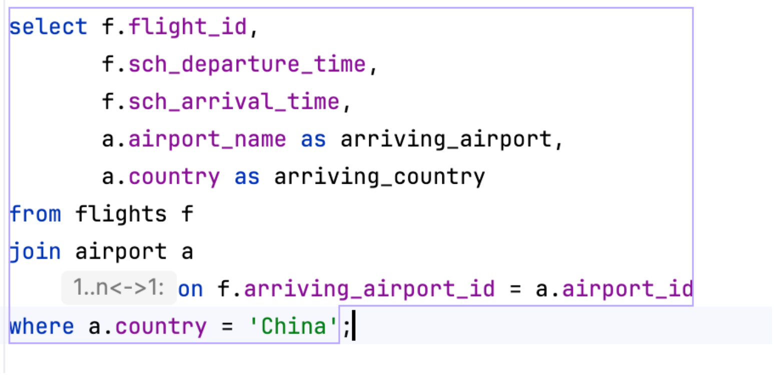
```
select
    extract(year from created_at) as year,
    extract(month from created_at) as month,
    sum(ticket_price) as total_price
from booking
group by year, month
order by year, month;
```



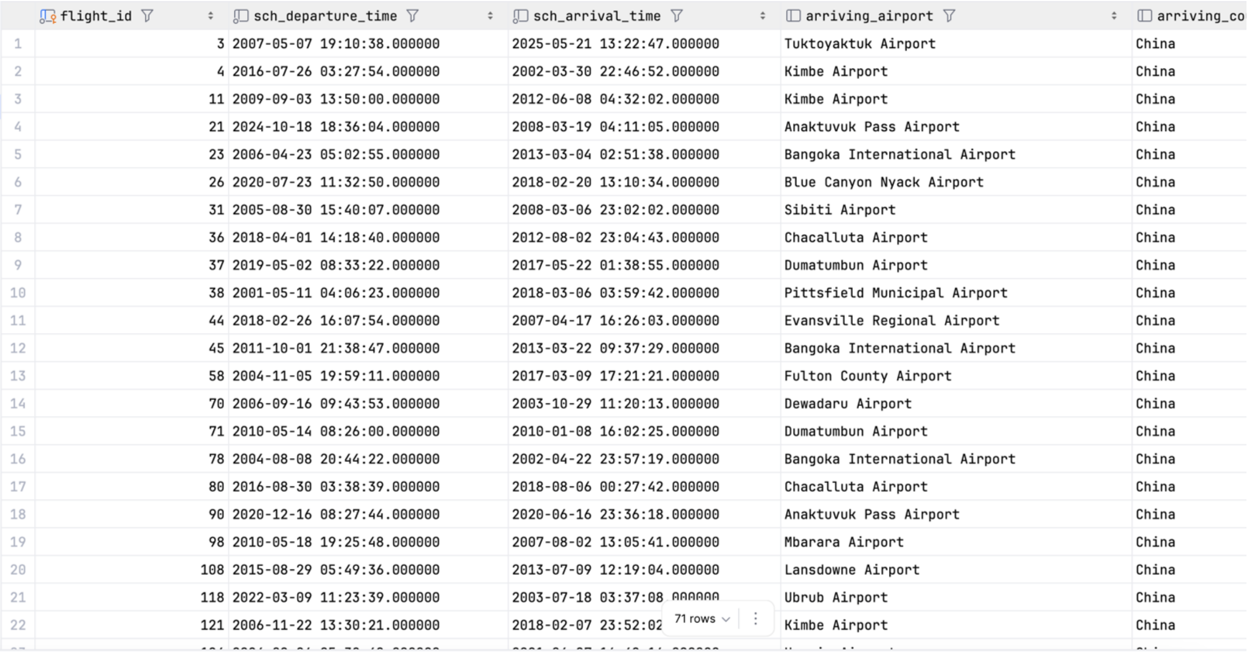
	year	month	total_price
1	2025	9	10507.14

All the bookings were created in the same month.

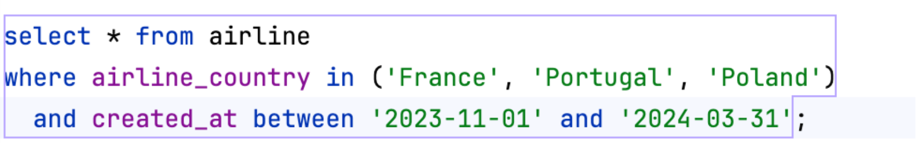
5.



```
select f.flight_id,
       f.sch_departure_time,
       f.sch_arrival_time,
       a.airport_name as arriving_airport,
       a.country as arriving_country
from flights f
join airport a
    1..n<->1: on f.arriving_airport_id = a.airport_id
where a.country = 'China';
```

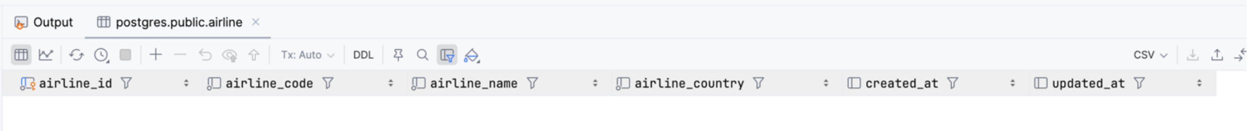


	flight_id	sch_departure_time	sch_arrival_time	arriving_airport	arriving_co
1	3	2007-05-07 19:10:38.000000	2025-05-21 13:22:47.000000	Tuktoyaktuk Airport	China
2	4	2016-07-26 03:27:54.000000	2002-03-30 22:46:52.000000	Kimbe Airport	China
3	11	2009-09-03 13:50:00.000000	2012-06-08 04:32:02.000000	Kimbe Airport	China
4	21	2024-10-18 18:36:04.000000	2008-03-19 04:11:05.000000	Anaktuvuk Pass Airport	China
5	23	2006-04-23 05:02:55.000000	2013-03-04 02:51:38.000000	Bangoka International Airport	China
6	26	2020-07-23 11:32:50.000000	2018-02-20 13:10:34.000000	Blue Canyon Nyack Airport	China
7	31	2005-08-30 15:40:07.000000	2008-03-06 23:02:02.000000	Sibiti Airport	China
8	36	2018-04-01 14:18:40.000000	2012-08-02 23:04:43.000000	Chacalluta Airport	China
9	37	2019-05-02 08:33:22.000000	2017-05-22 01:38:55.000000	Dumatumbun Airport	China
10	38	2001-05-11 04:06:23.000000	2018-03-06 03:59:42.000000	Pittsfield Municipal Airport	China
11	44	2018-02-26 16:07:54.000000	2007-04-17 16:26:03.000000	Evansville Regional Airport	China
12	45	2011-10-01 21:38:47.000000	2013-03-22 09:37:29.000000	Bangoka International Airport	China
13	58	2004-11-05 19:59:11.000000	2017-03-09 17:21:21.000000	Fulton County Airport	China
14	70	2006-09-16 09:43:53.000000	2003-10-29 11:20:13.000000	Dewadaru Airport	China
15	71	2010-05-14 08:26:00.000000	2010-01-08 16:02:25.000000	Dumatumbun Airport	China
16	78	2004-08-08 20:44:22.000000	2002-04-22 23:57:19.000000	Bangoka International Airport	China
17	80	2016-08-30 03:38:39.000000	2018-08-06 00:27:42.000000	Chacalluta Airport	China
18	90	2020-12-16 08:27:44.000000	2020-06-16 23:36:18.000000	Anaktuvuk Pass Airport	China
19	98	2010-05-18 19:25:48.000000	2007-08-02 13:05:41.000000	Mbarara Airport	China
20	108	2015-08-29 05:49:36.000000	2013-07-09 12:19:04.000000	Lansdowne Airport	China
21	118	2022-03-09 11:23:39.000000	2003-07-18 03:37:08.000000	Ubrub Airport	China
22	121	2006-11-22 13:30:21.000000	2018-02-07 23:52:02	Kimbe Airport	China



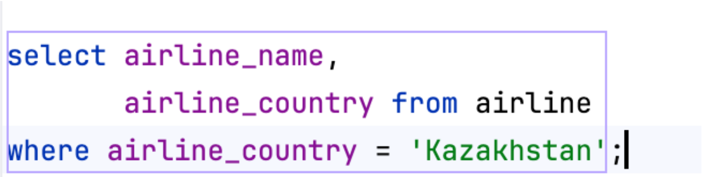
```
select * from airline
where airline_country in ('France', 'Portugal', 'Poland')
  and created_at between '2023-11-01' and '2024-03-31';
```

6.



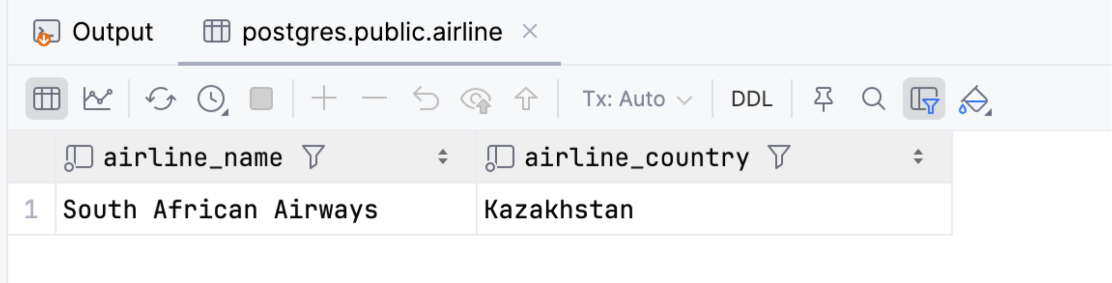
airline_id	airline_code	airline_name	airline_country	created_at	updated_at

All queries in airline_country were created after 2024.



```
select airline_name,
       airline_country from airline
where airline_country = 'Kazakhstan';
```

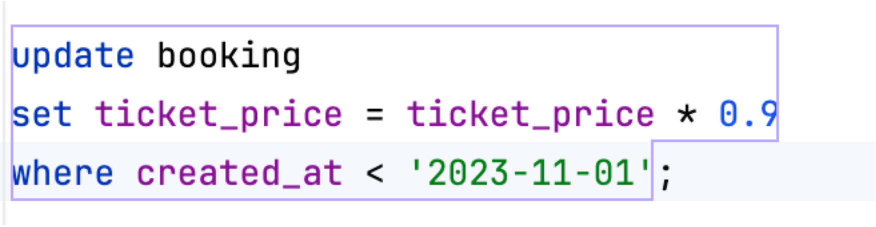
7.



	airline_name	airline_country
1	South African Airways	Kazakhstan

Only one airline is from Kazakhstan.

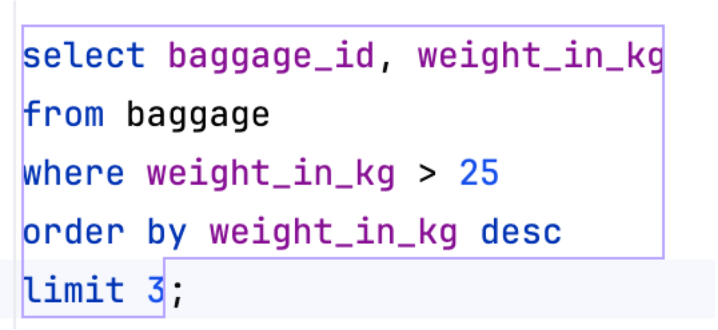
8.



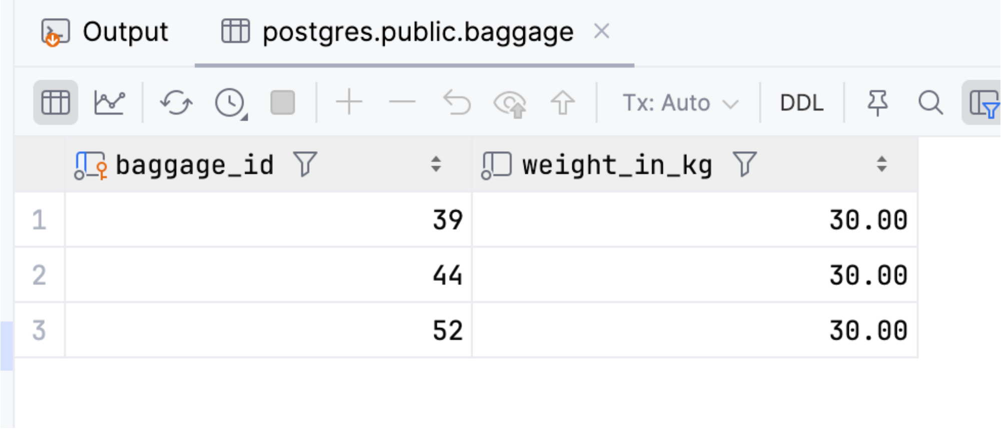
```
update booking
set ticket_price = ticket_price * 0.9
where created_at < '2023-11-01';
```

All the tickets were bought after 2023.

9.

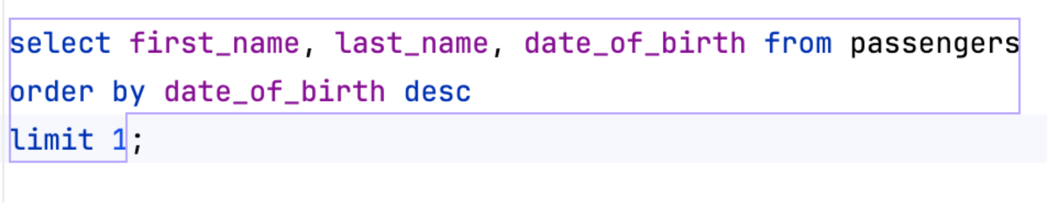


```
select baggage_id, weight_in_kg
from baggage
where weight_in_kg > 25
order by weight_in_kg desc
limit 3;
```

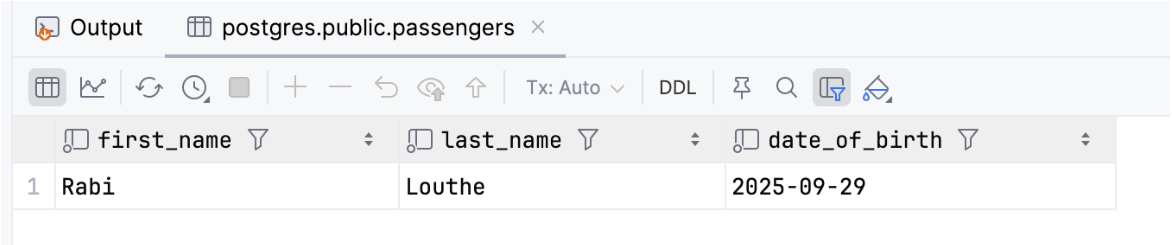


	baggage_id	weight_in_kg
1	39	30.00
2	44	30.00
3	52	30.00

10.

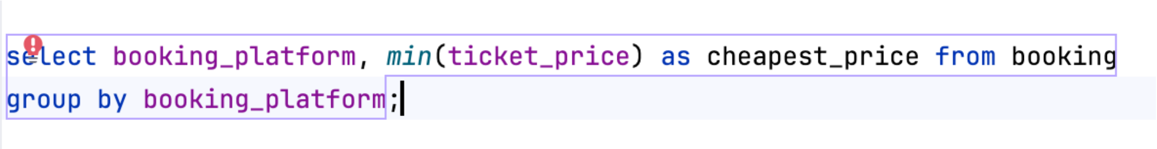


```
select first_name, last_name, date_of_birth from passengers
order by date_of_birth desc
limit 1;
```

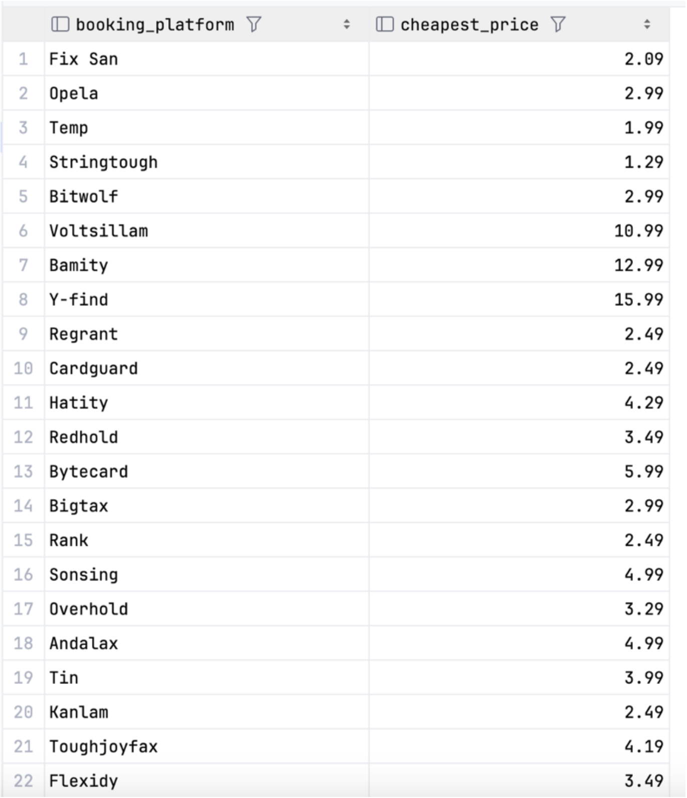


	first_name	last_name	date_of_birth
1	Rabi	Louthe	2025-09-29

11.

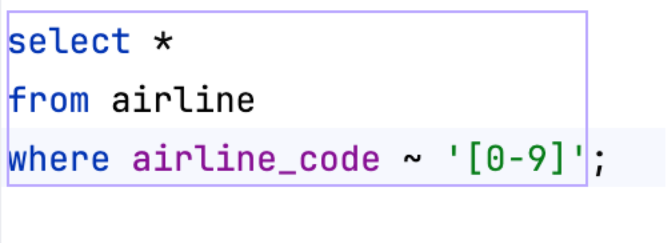


```
select booking_platform, min(ticket_price) as cheapest_price from booking
group by booking_platform;
```

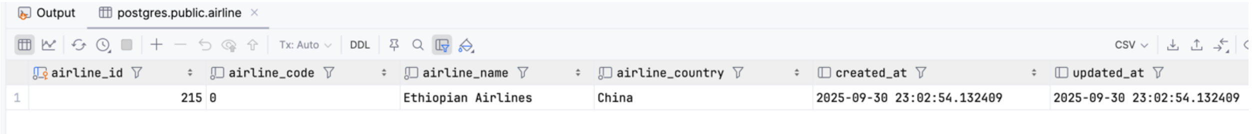


	booking_platform	cheapest_price
1	Fix San	2.09
2	Opela	2.99
3	Temp	1.99
4	Stringtough	1.29
5	Bitwolf	2.99
6	Voltsillam	10.99
7	Bamity	12.99
8	Y-find	15.99
9	Regrant	2.49
10	Cardguard	2.49
11	Hatity	4.29
12	Redhold	3.49
13	Bytecard	5.99
14	Bigtax	2.99
15	Rank	2.49
16	Sonsing	4.99
17	Overhold	3.29
18	Andalax	4.99
19	Tin	3.99
20	Kanlam	2.49
21	Toughjoyfax	4.19
22	Flexidy	3.49

12.

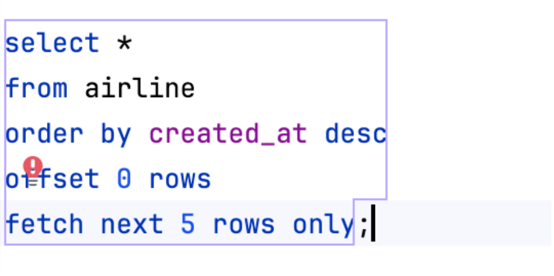


```
select *
from airline
where airline_code ~ '[0-9]';
```

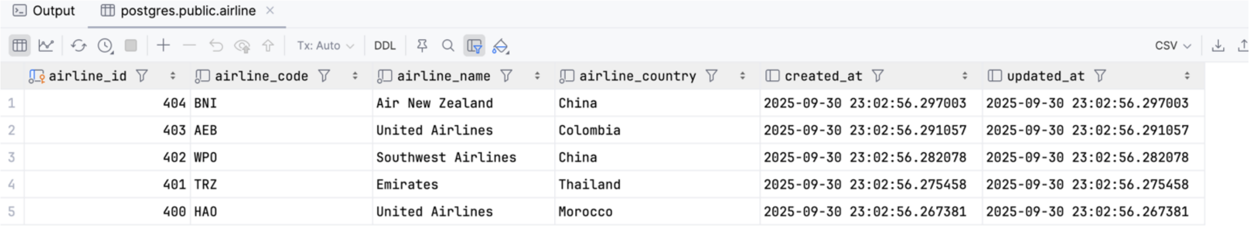


	airline_id	airline_code	airline_name	airline_country	created_at	updated_at
1	215	0	Ethiopian Airlines	China	2025-09-30 23:02:54.132409	2025-09-30 23:02:54.132409

13.

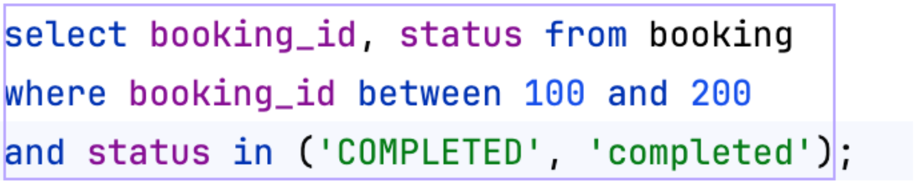


```
select *
from airline
order by created_at desc
offset 0 rows
fetch next 5 rows only;
```



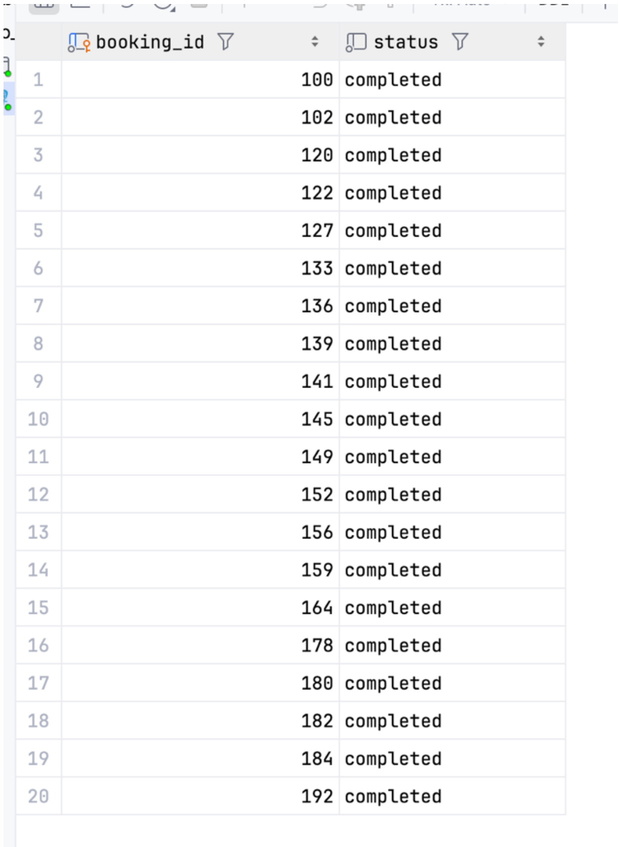
	airline_id	airline_code	airline_name	airline_country	created_at	updated_at
1	404	BNI	Air New Zealand	China	2025-09-30 23:02:56.297003	2025-09-30 23:02:56.297003
2	403	AEB	United Airlines	Colombia	2025-09-30 23:02:56.291057	2025-09-30 23:02:56.291057
3	402	WPO	Southwest Airlines	China	2025-09-30 23:02:56.282078	2025-09-30 23:02:56.282078
4	401	TRZ	Emirates	Thailand	2025-09-30 23:02:56.275458	2025-09-30 23:02:56.275458
5	400	HAO	United Airlines	Morocco	2025-09-30 23:02:56.267381	2025-09-30 23:02:56.267381

14.

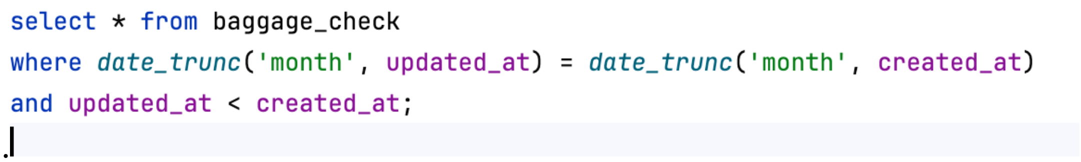


```sql
select booking_id, status from booking
where booking_id between 100 and 200
and status in ('COMPLETED', 'completed');
```

In this case we used ‘completed’ as ‘checked’.

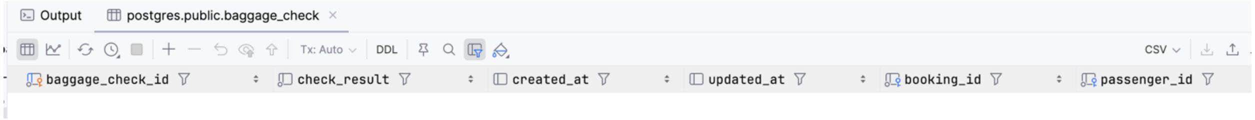


	booking_id	status
1	100	completed
2	102	completed
3	120	completed
4	122	completed
5	127	completed
6	133	completed
7	136	completed
8	139	completed
9	141	completed
10	145	completed
11	149	completed
12	152	completed
13	156	completed
14	159	completed
15	164	completed
16	178	completed
17	180	completed
18	182	completed
19	184	completed
20	192	completed



```
select * from baggage_check
where date_trunc('month', updated_at) = date_trunc('month', created_at)
and updated_at < created_at;
```

15.



baggage_check_id	check_result	created_at	updated_at	booking_id	passenger_id