

Laboratory work #3

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```
SELECT * FROM passenger WHERE first_name = 'lastname';

SELECT DISTINCT lastname FROM passenger;

SELECT * FROM passenger WHERE gender = 'M' AND birthdate > '1990-01-01' AND birthdate < '2000-01-01';

SELECT extract(MONTH FROM booking.created_at) AS month, sum(tickets_price) AS revenue
FROM booking JOIN boarding_pass 1<->1..n: ON booking.id = boarding_pass.booking_id
GROUP BY month
ORDER BY month ASC;

SELECT * FROM flight
JOIN airport 1..n<->1: ON flight.dept_airport_id = airport.id
WHERE country = 'Japan';
```

Output airport.public.passenger airport.public.passenger 2 ×

Tx: Auto DDL

CSV

id firstname lastname birthdate gender country_of_citizenship

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```
SELECT DISTINCT lastname FROM passenger;

SELECT * FROM passenger WHERE gender = 'M' AND birthdate > '1990-01-01' AND birthdate < '2000-01-01';

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FROM booking JOIN boarding_pass 1<->1..n: ON booking.id = boarding_pass.booking_id
GROUP BY month
ORDER BY month ASC;

SELECT * FROM flight
JOIN airport 1..n<->1: ON flight.dept_airport_id = airport.id
WHERE country = 'Japan';
```

Output airport.public.passenger airport.public.passenger 2 ×

Tx: Auto DDL

lastname

1	Wei
2	Khan
3	Al-Mansouri
4	Petrova
5	Wojcik
6	Kowalska
7	Dubois
8	Gonzalez
9	Hassan
10	Tanaka

30 rows

```

5 ✓ SELECT * FROM passenger WHERE gender = 'M' AND birthdate > '1990-01-01' AND birthdate < '2000-01-01';
6
7 SELECT extract(MONTH FROM booking.created_at) AS month, sum(tickets_price) AS revenue
8 FROM booking JOIN boarding_pass 1<->1.n: ON booking.id = boarding_pass.booking_id
9 GROUP BY month
10 ORDER BY month ASC;
11
12 SELECT * FROM flight
13 JOIN airport 1.n<->1: ON flight.dept_airport_id = airport.id
14 WHERE country = 'Japan';

```

Output airport.public.passenger airport.public.passenger 2 ×

	id	firstname	lastname	birthdate	gender	country_of_citizenship	count
1	1	Aidos	Tulegenov	1990-04-15	M	Kazakhstan	Kazakhstan
2	7	Ali	Rahman	1991-07-10	M	UAE	UAE
3	9	Hans	Muller	1993-05-09	M	Germany	Germany
4	13	Petr	Novak	1994-07-22	M	Czechia	Poland
5	18	Zhang	Wei	1990-11-19	M	China	China

```

6
7 ✓ SELECT extract(MONTH FROM booking.created_at) AS month, sum(tickets_price) AS revenue
8 FROM booking JOIN boarding_pass 1<->1.n: ON booking.id = boarding_pass.booking_id
9 GROUP BY month
10 ORDER BY month ASC;
11
12 SELECT * FROM flight
13 JOIN airport 1.n<->1: ON flight.dept_airport_id = airport.id
14 WHERE country = 'Japan';

```

Output airport.public.passenger Result 32 ×

	month	revenue
1	1	49132.6
2	3	57058.4
3	4	26231.5
4	5	71815.2
5	6	28911
6	7	21304.9
7	8	88067
8	9	51582.1
9	10	11352.8
10	11	32591

11 rows

```

11
12 ✓ SELECT * FROM flight
13 JOIN airport 1.n<->1: ON flight.dept_airport_id = airport.id
14 WHERE country = 'Japan';
15
16 SELECT * FROM airline
17 WHERE airline.country IN ('France', 'Portugal', 'Poland') AND created_at BETWEEN '2023-11-01' AND '2024-03-31';

```

Output airport.public.passenger Result 33 ×

	flight_id	airline_id	dept_airport_id	arr_airport_id	dept_gate	arr_gate
1	11	4	4	2	A	A
2	16	2	4	7	A	A
3	33	5	4	2	A	A
4	38	6	4	7	A	A

```
15
16 ✓ SELECT * FROM airline
17 WHERE airline_country IN ('France', 'Portugal', 'Poland') AND created_at BETWEEN '2023-11-01' AND '2025-03-31';
18
19 SELECT airline_name FROM airline WHERE airline_country = 'Kazakhstan';
20
21 UPDATE booking SET tickets_price = tickets_price * 0.9 WHERE created_at < '11-01-2023';
22
23 SELECT * FROM baggage WHERE weight > 25 ORDER BY weight DESC LIMIT 3;
```

Output airport.public.passenger airport.public.airline ×

	id	airline_code	airline_name	airline_country	created_at	updated_at
1	9	#343244	AirEasy	France	2024-04-27 02:45:36.895751	<null>
2	11	#343246	FlyFly	Poland	2024-05-05 06:37:30.492551	<null>

```
18
19 ✓ SELECT airline_name FROM airline WHERE airline_country = 'Kazakhstan';
20
21 UPDATE booking SET tickets_price = tickets_price * 0.9 WHERE created_at < '11-01-2023';
22
23 SELECT * FROM baggage WHERE weight > 25 ORDER BY weight DESC LIMIT 3;
```

Output airport.public.passenger airport.public.airline ×

	airline_name
1	Airastana
2	flyarystan

```
22
23 ✓ SELECT * FROM baggage WHERE weight > 25 ORDER BY weight DESC LIMIT 3;
24
25 SELECT firstname FROM passenger ORDER BY birthdate DESC LIMIT 1;
26
27 SELECT MIN(tickets_price) AS cheapest_price, booking_platform FROM booking
28 GROUP BY booking_platform;
```

Output airport.public.passenger airport.public.baggage ×

	id	weight	booking_id	created_at	updated_at
1	12	31.50	12	2025-09-19 14:38:02.657955	<null>
2	5	30.00	5	2025-09-07 14:38:02.657955	<null>
3	14	28.40	14	2025-09-24 14:38:02.657955	<null>

```
24
25 ✓ SELECT firstname FROM passenger ORDER BY birthdate DESC LIMIT 1;
26
27 SELECT MIN(tickets_price) AS cheapest_price, booking_platform FROM booking
28 GROUP BY booking_platform;
29
```

Output airport.public.passenger

firstance

	firstance
1	Nora

```
26
27 ✓ SELECT MIN(tickets_price) AS cheapest_price, booking_platform FROM booking
28 GROUP BY booking_platform;
29
30 SELECT * FROM airline WHERE airline_code ~ ('[0-9]');
31
32 SELECT airline_name FROM airline ORDER BY created_at DESC LIMIT 5;
33
34 SELECT * FROM booking
35 JOIN boarding_pass ON booking_id = boarding_pass.booking_id
```

Output airport.public.passenger Result 40 ×

cheapest_price booking_platform

	cheapest_price	booking_platform
1	14455.5	Lufthansa
2	7337	Emirates
3	10300.55	Airbnb
4	14362.35	QazaqAir
5	6331.9	Opodo
6	10652.45	AirAstana
7	14265.75	SkyScanner
8	13115.75	Singapore Airlines
9	16295.5	S7 Airlines
10	11313.7	Aeroflot

30 rows

```
0 ✓ SELECT * FROM airline WHERE airline_code ~ ('[0-9]');
1
2 SELECT airline_name FROM airline ORDER BY created_at DESC LIMIT 5;
3
4 SELECT * FROM booking
5 JOIN boarding_pass 1<->1..n: ON booking.id = boarding_pass.booking_id
6 JOIN passenger 1..n<->1: ON boarding_pass.passenger_id = passenger.id
7 JOIN security_check 1<->1..n: ON passenger.id = security_check.passenger_id
8 WHERE booking_id BETWEEN 5 AND 15 AND check_result = 'passed';
```

Output airport.public.passenger airport.public.airline ×

	id	airline_code	airline_name	airline_country	created_at
1	1	#243242	Airastana	Kazakhstan	2023-08-19
2	2	#2d22f2	flyarystan	Kazakhstan	2024-01-23
3	3	#2d2d23	scat	Russia	2025-09-27
4	4	#2d2232	turkish airlines	Turkey	2024-10-08
5	5	#2d22f1	qatar airways	Qatar	2025-08-08
6	6	#2d223e	airfrance	France	2025-05-05
7	7	#23233f	american airlines	USA	2025-01-26
8	8	#123213	KazAir	Turkey	2025-09-29
9	9	#343244	AirEasy		2024-04-27
10	10	#343245	FlvHnh		2024-04-10

11 rows

```
31
32 ✓ SELECT airline_name FROM airline ORDER BY created_at DESC LIMIT 5;
33
34 SELECT * FROM booking
35 JOIN boarding_pass 1<->1..n: ON booking.id = boarding_pass.booking_id
36 JOIN passenger 1..n<->1: ON boarding_pass.passenger_id = passenger.id
37 JOIN security_check 1<->1..n: ON passenger.id = security_check.passenger_id
38 WHERE booking_id BETWEEN 5 AND 15 AND check_result = 'passed';
39
40
41 SELECT * FROM baggage_check WHERE EXTRACT(MONTH FROM updated_at) = EXTRACT(MONTH FROM CURRENT_DATE);
```

Output airport.public.passenger

	airline_name
1	KazAir
2	scat
3	qatar airways
4	airfrance
5	american airlines

```
14 SELECT * FROM booking
35 JOIN boarding_pass 1<->1:n ON booking.id = boarding_pass.booking_id
36 JOIN passenger 1:n<->1 ON boarding_pass.passenger_id = passenger.id
37 JOIN security_check 1<->1:n ON passenger.id = security_check.passenger_id
38 WHERE booking_id BETWEEN 5 AND 15 AND check_result = 'passed';
39
40
41 SELECT * FROM baggage_check WHERE EXTRACT(MONTH FROM updated_at) = EXTRACT(MONTH FROM created_at) AND updated_at < created_at;
42
```

Output airport.public.passenger Result 43 ×

CSV Download Refresh Filter Columns

	booking.id	booking_platform	status	tickets_price	booking_created_at	booking.updated_at
1	11	QazaqAir	Confirmed	14362.35	2025-03-29 14:38:02.333249	<null>
2	6	CheapOair	Confirmed	13150.25	2024-12-29 14:38:02.333249	<null>
3	13	Airbnb	Pending	10300.55	2025-01-29 14:38:02.333249	<null>
4	14	Gotogate	Confirmed	17102.80	2025-05-29 14:38:02.333249	<null>
5	13	Airbnb	Pending	10300.55	2025-01-29 14:38:02.333249	<null>
6	10	Priceline	Confirmed	11352.80	2024-10-29 14:38:02.333249	<null>
7	14	Gotogate	Confirmed	17102.80	2025-05-29 14:38:02.333249	<null>
8	6	CheapOair	Confirmed	13150.25	2024-12-29 14:38:02.333249	<null>

```
✓ SELECT * FROM baggage_check WHERE EXTRACT(MONTH FROM updated_at) = EXTRACT(MONTH FROM created_at) AND updated_at < created_at;
```

Output airport.public.passenger airport.public.baggage_check ×

CSV Download Refresh Filter Columns

	id	baggage_id	check_result	created_at	updated_at
1	3	3	passed	2025-07-09 23:40:44.784046	2025-07-01 00:00:00.000000
2	4	4	failed	2025-06-10 05:37:55.440046	2025-06-01 00:00:00.000000
3	5	5	passed	2025-04-06 14:02:38.899246	2025-04-01 00:00:00.000000
4	6	6	passed	2025-03-23 02:30:22.099246	2025-03-01 00:00:00.000000
5	7	7	passed	2024-12-11 15:12:39.408046	2024-12-01 00:00:00.000000