```sql
CREATE VIEW flights_view AS SELECT * FROM flights WHERE scheduled_departure = '2023-03-22';
SELECT * FROM flights_view;
```

Output | airport.public.flights_view ✕ | airport.public.passenger_platform

CSV ⌄

flight_id	flight_no	scheduled_departure	scheduled_arrival	departure_airport_id	arrival_airport_id
12	CA-NL	2023-03-22	2023-06-04	12	
783	PG-WPD	2023-03-22	2023-06-23	13	
985	US-TX	2023-03-22	2023-06-09	7	

```sql
CREATE VIEW next_week_flights AS SELECT * FROM flights WHERE scheduled_departure >= now() AND scheduled_departure <= now() + interval '1 week';
SELECT * FROM next_week_flights;
```

Output | airport.public.flights_view | airport.public.next_week_flights ✕

CSV ⌄

flight_id	flight_no	scheduled_departure	scheduled_arrival	departure_airport_id	arrival_airport_id
3	FI-OL	2025-11-18	2023-08-01	18	
2	US-NM	2025-11-20	2023-09-17	13	
1	US-CT	2025-11-19	2023-09-08	12	

```sql
CREATE VIEW top5_routes AS SELECT a_dept.country || ' -> ' || a_arr.country AS route, COUNT(booking_id) AS total_bookings
FROM flights
        JOIN airport a_dept  1..n<->1:  ON flights.departure_airport_id = a_dept.airport_id
        JOIN airport a_arr   1..n<->1:  ON flights.arrival_airport_id = a_arr.airport_id
        JOIN booking_flight  1<->1..n:  ON flights.flight_id = booking_flight.flight_id
GROUP BY a_dept.country, a_arr.country
ORDER BY total_bookings DESC
LIMIT 5;

SELECT * FROM top5_routes;
```

Output | airport.public.top5_routes ✕ | airport.public.next_week_flights

route	total_bookings
China -> China	61
Philippines -> China	42
Indonesia -> Indonesia	41
Indonesia -> China	37
China -> Indonesia	36

```sql
CREATE OR REPLACE VIEW some_companies_flights AS SELECT *
FROM flights
WHERE airline_id = 1;

SELECT * FROM some_companies_flights;
```

✓ 1 ∧

Output | ⊞ airport.public.flights | ⊞ airport.public.some_companies_flights ✕

CSV ∨

g_gate	arriving_gate	airline_id	status	actual_departure	actual_arrival	created_at
1	5429	1	Delayed	2023-08-19	2023-11-09	2023-06-29
2	9380	1	Delayed	2023-04-14	2024-01-16	2024-01-04
3	13	1	Delayed	2023-12-30	2023-08-21	2023-07-27
4	23	1	Delayed	2024-01-17	2023-04-04	2024-03-03
5	515	1	Delayed	2023-09-04	2023-05-07	2023-06-16
6	1330	1	Delayed	2023-04-13	2023-07-06	2023-11-03
7	1147	1	Delayed	2023-12-22	2023-04-21	2023-12-08
8	38	1	Boarding	2023-12-25	2023-07-28	2023-12-26
9	996	1	Delayed	2024-02-14	2024-02-29	2023-11-02
10	100	1	Boarding	2023-09-07	2023-10-03	2023-11-11
11	33	1	Boarding	2023-04-22	2024-02-08	2023-12-12
12	57	1	Boarding	2023-05-16	2023-05-29	2023-11-04
13	31	1	Boar	24-01-12	2023-06-13	2023-05-28

32 rows ∨

```sql
CREATE OR REPLACE VIEW some_companies_flights AS SELECT flight_id, flight_no, scheduled_departure, scheduled_arrival, departure_airport_id, arrival_airport_id, d
FROM flights
JOIN airline 1..n<->1: ON flights.airline_id = airline.airline_id
WHERE airline.airline_id = 1 AND (scheduled_departure >= now() AND scheduled_departure <= now() + interval '1 week');

SELECT * FROM some_companies_flights;
```

✓ 1 ∧

Output | ⊞ airport.public.some_companies_flights 2 ✕ | ⊞ airport.public.some_companies_flights

CSV ∨

l_airport_id	departing_gate	arriving_gate	airline_id	status	actual_departure	actual_arri
1	20	1891	5429	1	Delayed	2023-08-19	2023-11-09
2	19	<null>	9380	1	Delayed	2023-04-14	2024-01-16
3	14	<null>	13	1	Delayed	2023-12-30	2023-08-21
4	9	144	23	1	Delayed	2024-01-17	2023-04-04
5	11	335	515	1	Delayed	2023-09-04	2023-05-07
6	9	919	1330	1	Delayed	2023-04-13	2023-07-06
7	20	897	1147	1	Delayed	2023-12-22	2023-04-21
8	19	150	38	1	Boarding	2023-12-25	2023-07-28
9	5	2000	996	1	Delayed	2024-02-14	2024-02-29
10	18	30	100	1	Boarding	2023-09-07	2023-10-03
11	12	558	33	1	Boarding	2023-04-22	2024-02-08
12	6	53	57	1	Boarding	2023-05-16	2023-05-29
13	9	<null>	31	1	Boarding	2024-01-12	2023-06-13

32 rows ∨

```sql
CREATE VIEW delayed_morethan_24hrs_flights AS SELECT *
FROM flights
WHERE flights.actual_departure - flights.scheduled_departure > 1;

SELECT * FROM delayed_morethan_24hrs_flights;
```

Output | airport.public.some_companies_flights 2 | airport.public.delay...orethan_24hrs_flights

CSV

	ort_id	departing_gate	arriving_gate	airline_id	status	actual_departure	actual_arrival
1	2	626	171	14	Check-in open	2023-11-18	2023-07-02
2	1	1576	72	34	Check-in open	2024-02-19	2023-04-28
3	18	867	15	10	Delayed	2023-12-04	2023-07-12
4	9	659	621	13	Delayed	2023-06-17	2023-12-03
5	5	1280	3288	46	Delayed	2024-02-06	2023-05-15
6	13	40	2592	27	Boarding	2023-04-28	2023-11-17
7	3	973	297	8	Delayed	2024-03-04	2023-09-18
8	13	297	59	6	Boarding	2023-11-23	2023-04-17
9	7	18	25	6	Boarding	2023-10-28	2023-09-21
10	2	400	85	44	Delayed	2024-02-05	2024-01-04
11	3	934	3006	17	Boarding	2023-04-21	2023-05-17
12	17	915	18	37	Boarding	2024-01-01	2023-04-20
13	2	1027	190	43	Delayed	2024-02-24	2023-12-23
14	16	919	7050	38	Departed	2023-12-21	2023-06-05

492 rows

```sql
CREATE VIEW passenger_platform AS SELECT passengers.first_name || ' ' || passengers.last_name, passengers.country_of_citizenship
FROM passengers
JOIN booking  1<->1..n:  ON passengers.passenger_id = booking.passenger_id
WHERE booking_platform = 'Leffler-Thompson';

SELECT * FROM passenger_platform;
```

Output | airport.public.passenger_platform | airport.public.delay...orethan_24hrs_flights

"?column?"	country_of_citizenship
Philbert Shambroke	Colombia

```sql
CREATE VIEW top10_countries AS SELECT airport.country, COUNT(booking_id) AS bookings
FROM flights
JOIN airport  1..n<->1: ON flights.arrival_airport_id = airport.airport_id
JOIN booking_flight  1<->1..n: ON flights.flight_id = booking_flight.flight_id
GROUP BY airport.country
ORDER BY bookings DESC
LIMIT 10;

SELECT * FROM top10_countries;
```

Output   ⊞ airport.public.passenger_platform   ⊞ airport.public.top10_countries ✕

Tx: Auto ⌄   DDL

country	bookings
China	232
Indonesia	167
Philippines	137
Tanzania	78
United States	62
Russia	59
Poland	49
Slovenia	48
Afghanistan	46
Croatia	44

10 rows ⌄

```sql
CREATE OR REPLACE VIEW passenger_platform AS SELECT passengers.first_name || ' ' || passengers.last_name, passengers.country_of_citizenship
FROM passengers
JOIN booking  1<->1..n: ON passengers.passenger_id = booking.passenger_id
WHERE booking_platform = 'Leffler-Thompson' AND passengers.gender = 'Male';

SELECT * FROM passenger_platform;
```

Output   ⊞ airport.public.passenger_platform ✕   ⊞ airport.public.top10_countries

Tx: Auto ⌄   DDL

"?column?"	country_of_citizenship
Philbert Shambroke	Colombia

```sql
DROP VIEW flights_view;
DROP VIEW next_week_flights;
DROP VIEW top5_routes;
DROP VIEW some_companies_flights;
DROP VIEW delayed_morethan_24hrs_flights;
DROP VIEW passenger_platform;
DROP VIEW top10_countries;
```