

kr\_2.sql x airports\_data [demo@localhost] kr\_2\_ch.sql

demo: bookings, public console [demo@localhost]

```
1 SELECT airport_name->'ru' AS airport_name
2 FROM airports_data
3 EXCEPT
4 SELECT city->'ru' AS city
5 FROM airports_data
6 ORDER BY airport_name;
```

Files

- hmrwk\_2 C:\Users\Камилла\DataGripF
- hw7.sql
- hw7\_ch.sql
- kr\_2.sql
- kr\_2\_ch.sql
- schema.sql
- kr1\_ziganshina C:\Users\Камилла\Data
- Scratches and Consoles

Output airport\_name x

38 rows

| airport_name     |
|------------------|
| 1 Байкал         |
| 2 Баратаевка     |
| 3 Бегичево       |
| 4 Беспан         |
| 5 Бесовец        |
| 6 Богашёво       |
| 7 Витязево       |
| 8 Внуково        |
| 9 Гумрак         |
| 10 Домодедово    |
| 11 Донское       |
| 12 Елизово       |
| 13 Емельяново    |
| 14 Иваново-Взный |
| 15 Игнатьево     |

kr\_2.sql x airports\_data [demo@localhost] kr\_2\_ch.sql

demo: bookings, public console [demo@localhost]

```
1 SELECT airport_name->'ru' AS airport_name
2 FROM airports_data
3 INTERSECT
4 SELECT city->'ru' AS city
5 FROM airports_data
6 ORDER BY airport_name;
```

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Output airport\_name x

66 rows

| airport_name     |
|------------------|
| 1 Абакан         |
| 2 Анадырь        |
| 3 Астрахань      |
| 4 Барнаул        |
| 5 Белгород       |
| 6 Белоярский     |
| 7 Братск         |
| 8 Брянск         |
| 9 Бугульма       |
| 10 Владивосток   |
| 11 Воркута       |
| 12 Воронеж       |
| 13 Геленджик     |
| 14 Горно-Алтайск |
| 15 Грозный       |

kr\_2.sql x aircrafts [demo@localhost] flights\_v [demo@localhost] kr\_2\_ch.sql

```
1 SELECT aircrafts.model, COUNT(f.flight_id) AS flights_count
2 FROM flights_v f
3 JOIN aircrafts ON f.aircraft_code = aircrafts.aircraft_code
4 WHERE f.departure_airport = 'KZN'
5 AND EXTRACT(MONTH FROM f.actual_departure) = 8
6 AND EXTRACT(YEAR FROM f.actual_departure) = 2017
7 GROUP BY aircrafts.model
8 HAVING COUNT(f.flight_id) > 50
9 ORDER BY flights_count DESC, aircrafts.model ASC;
```

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Output Result 11 x

0 rows

model flights\_count

kr\_2.sql x kr\_2\_ch.sql

```
1 SELECT *
2 FROM boarding_passes
3 INNER JOIN ticket_flights ON boarding_passes.ticket_no = ticket_flights.ticket_no and boarding_passes.flight_id = ticket_flights.flight_id
4 INNER JOIN tickets ON ticket_flights.ticket_no = tickets.ticket_no
5 INNER JOIN bookings ON tickets.book_ref = bookings.book_ref
6 INNER JOIN flights ON ticket_flights.flight_id = flights.flight_id
7 INNER JOIN airports_data ON flights.arrival_airport = airports_data.airport_code
8 INNER JOIN aircrafts_data ON flights.aircraft_code = aircrafts_data.aircraft_code
9 INNER JOIN seats ON aircrafts_data.aircraft_code = seats.aircraft_code;
```

demo x

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Output Result 12 x

1-500 of 501+

|    | boarding_passes.ticket_no | boarding_passes.flight_id | boarding_no | boarding_passes.seat_no | ticket_flights.ticket_no | ticket_flight |
|----|---------------------------|---------------------------|-------------|-------------------------|--------------------------|---------------|
| 1  | 0005434876668             | 29045                     | 24          | 10                      | 0005434876668            |               |
| 2  | 0005434876668             | 29045                     | 24          | 10                      | 0005434876668            |               |
| 3  | 0005434876668             | 29045                     | 24          | 10                      | 0005434876668            |               |
| 4  | 0005434876668             | 29045                     | 24          | 10                      | 0005434876668            |               |
| 5  | 0005434876668             | 29045                     | 24          | 10                      | 0005434876668            |               |
| 6  | 0005434876668             | 29045                     | 24          | 10                      | 0005434876668            |               |
| 7  | 0005434876668             | 29045                     | 24          | 10                      | 0005434876668            |               |
| 8  | 0005434876668             | 29045                     | 24          | 10                      | 0005434876668            |               |
| 9  | 0005434876668             | 29045                     | 24          | 10                      | 0005434876668            |               |
| 10 | 0005434876668             | 29045                     | 24          | 10                      | 0005434876668            |               |
| 11 | 0005434876668             | 29045                     | 24          | 10                      | 0005434876668            |               |
| 12 | 0005434876668             | 29045                     | 24          | 10                      | 0005434876668            |               |
| 13 | 0005434876668             | 29045                     | 24          | 10                      | 0005434876668            |               |
| 14 | 0005434876668             | 29045                     | 24          | 10                      | 0005434876668            |               |
| 15 | 0005434876668             | 29045                     | 24          | 10                      | 0005434876668            |               |

kr\_2.sql tickets [demo@localhost] hw7\_ch.sql kr\_2\_ch.sql

```
1 SELECT COUNT(flights.flight_no)
2 FROM ticket_flights tf
3 RIGHT JOIN flights ON flights.flight_id = tf.flight_id
4 WHERE tf.ticket_no IS NULL;
```

demo bookings, public console [demo@localhost]

ticket\_flights

- book\_ref: Booking number
- book\_date: Booking date
- total\_amount: Total booking cost
- ticket\_no: Ticket number

flights

- flight\_no: Flight number
- scheduled\_departure: Scheduled departure time
- scheduled\_arrival: Scheduled arrival time
- departure\_airport: Airport of departure
- arrival\_airport: Airport of arrival
- status: Flight status
- aircraft\_code: Aircraft code
- actual\_departure: Actual departure time
- actual\_arrival: Actual arrival time
- flight\_id: Flight ID

ticket\_conditions

- fare\_conditions: Fare conditions
- amount: Travel cost
- ticket\_no: Ticket number
- flight\_id: Flight ID

Files

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- Scratches and Consoles

Output COUNT(flights.flight\_no):bigint

| count   |
|---------|
| 1 20490 |

CSV

kr\_2.sql tickets [demo@localhost] hw7\_ch.sql kr\_2\_ch.sql

```
1 SELECT f.flight_id, f.flight_no, COALESCE(SUM(t.amount), 0) AS total_sum
2 FROM flights f
3 INNER JOIN ticket_flights t ON f.flight_id = t.flight_id
4 WHERE EXTRACT(MONTH FROM f.scheduled_departure) = 8 AND EXTRACT(YEAR FROM f.scheduled_departure) = 2017
5 GROUP BY f.flight_id, f.flight_no
6 ORDER BY total_sum DESC;
```

demo bookings, public console [demo@localhost]

ticket\_flights

- book\_ref: Booking number
- book\_date: Booking date
- total\_amount: Total booking cost
- ticket\_no: Ticket number

flights

- flight\_no: Flight number
- scheduled\_departure: Scheduled departure time
- scheduled\_arrival: Scheduled arrival time
- departure\_airport: Airport of departure
- arrival\_airport: Airport of arrival
- status: Flight status
- aircraft\_code: Aircraft code
- actual\_departure: Actual departure time
- actual\_arrival: Actual arrival time
- flight\_id: Flight ID

ticket\_conditions

- fare\_conditions: Fare conditions
- amount: Travel cost
- ticket\_no: Ticket number
- flight\_id: Flight ID

Files

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Output Result 40

| flight_id | flight_no | total_sum |
|-----------|-----------|-----------|
| 1 4686    | P60208    | 17146600  |
| 2 51909   | P60209    | 17023600  |
| 3 4672    | P60208    | 16962100  |
| 4 4624    | P60208    | 16900600  |
| 5 4684    | P60208    | 16839100  |
| 6 4677    | P60208    | 16777600  |
| 7 4673    | P60208    | 16777600  |
| 8 4716    | P60208    | 16648400  |
| 9 4669    | P60208    | 16593100  |
| 10 51853  | P60209    | 16593100  |
| 11 4664   | P60208    | 16593100  |
| 12 4707   | P60208    | 16586900  |
| 13 51869  | P60209    | 16531600  |
| 14 51864  | P60209    | 16531600  |
| 15 51887  | P60209    | 16470100  |

CSV

kr\_2.sql tickets [demo@localhost] hw7\_ch.sql kr\_2\_ch.sql demo

```
GROUP BY f.flight_id, f.flight_no
ORDER BY total_sum DESC;

SELECT f.flight_id,
       f.flight_no,
       SUM(CASE WHEN EXTRACT(MONTH FROM scheduled_departure) = 8 THEN tf.amount ELSE 0 END) AS august,
       SUM(CASE WHEN EXTRACT(MONTH FROM scheduled_departure) = 9 THEN tf.amount ELSE 0 END) AS september
FROM ticket_flights tf
JOIN flights f ON tf.flight_id = f.flight_id
WHERE EXTRACT(YEAR FROM scheduled_departure) = 2017
GROUP BY f.flight_id, f.flight_no
ORDER BY august DESC, september DESC, f.flight_id ASC;
```

demo bookings, public console [demo@localhost]

book\_ref: Booking number (integer) 10  
book\_date: Booking date (timestamp with time zone) 10  
total\_amount: Total booking cost (numeric(10,2)) 10  
book\_ref: Booking number (integer) 10

flight\_no: Flight number (integer) 10  
scheduled\_departure: Scheduled departure time (timestamp with time zone) 10  
scheduled\_arrival: Scheduled arrival time (timestamp with time zone) 10  
departure\_airport: Airport of departure (integer) 10  
arrival\_airport: Airport of arrival (integer) 10  
status: Flight status (integer) 10  
aircraft\_code: Aircraft code (integer) 10  
actual\_departure: Actual departure time (timestamp with time zone) 10  
actual\_arrival: Actual arrival time (timestamp with time zone) 10  
flight\_id: Flight ID (integer) 10

ticket\_ref: Ticket number (integer) 10  
passenger\_id: Passenger ID (integer) 10  
passenger\_name: Passenger name (varchar(20)) 10  
contact\_data: Passenger contact information (points) 10  
ticket\_no: Ticket number (integer) 10

ticket\_flights: Flight segment (integer) 10  
fare\_conditions: Travel class (varchar(10)) 10  
amount: Travel cost (numeric(10,2)) 10  
ticket\_no: Ticket number (integer) 10  
flight\_id: Flight ID (integer) 10

Files

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- Scratches and Consoles

Output Result 48

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|    | flight_id | flight_no | august   | september |
|----|-----------|-----------|----------|-----------|
| 1  | 4686      | PG0208    | 17146600 | 0         |
| 2  | 51909     | PG0209    | 17023600 | 0         |
| 3  | 4672      | PG0208    | 16962100 | 0         |
| 4  | 4624      | PG0208    | 16900600 | 0         |
| 5  | 4684      | PG0208    | 16839100 | 0         |
| 6  | 4673      | PG0208    | 16777600 | 0         |
| 7  | 4677      | PG0208    | 16777600 | 0         |
| 8  | 4716      | PG0208    | 16648600 | 0         |
| 9  | 4664      | PG0208    | 16593100 | 0         |
| 10 | 4669      | PG0208    | 16593100 | 0         |
| 11 | 51853     | PG0209    | 16593100 | 0         |
| 12 | 4707      | PG0208    | 16586900 | 0         |
| 13 | 51864     | PG0209    | 16531600 | 0         |
| 14 | 51869     | PG0209    | 16531600 | 0         |
| 15 | 4682      | PG0208    | 16470100 | 0         |
| 16 | 4680      | PG0208    | 16470100 | 0         |

kr\_2.sql tickets [demo@localhost] hw7\_ch.sql kr\_2\_ch.sql demo

```
SELECT DISTINCT passenger_name
FROM tickets
WHERE passenger_name ILIKE 'IRINa';
```

demo bookings, public console [demo@localhost]

book\_ref: Booking number (integer) 10  
book\_date: Booking date (timestamp with time zone) 10  
total\_amount: Total booking cost (numeric(10,2)) 10  
book\_ref: Booking number (integer) 10

flight\_no: Flight number (integer) 10  
scheduled\_departure: Scheduled departure time (timestamp with time zone) 10  
scheduled\_arrival: Scheduled arrival time (timestamp with time zone) 10  
departure\_airport: Airport of departure (integer) 10  
arrival\_airport: Airport of arrival (integer) 10  
status: Flight status (integer) 10  
aircraft\_code: Aircraft code (integer) 10  
actual\_departure: Actual departure time (timestamp with time zone) 10  
actual\_arrival: Actual arrival time (timestamp with time zone) 10  
flight\_id: Flight ID (integer) 10

ticket\_ref: Ticket number (integer) 10  
passenger\_id: Passenger ID (integer) 10  
passenger\_name: Passenger name (varchar(20)) 10  
contact\_data: Passenger contact information (points) 10  
ticket\_no: Ticket number (integer) 10

ticket\_flights: Flight segment (integer) 10  
fare\_conditions: Travel class (varchar(10)) 10  
amount: Travel cost (numeric(10,2)) 10  
ticket\_no: Ticket number (integer) 10  
flight\_id: Flight ID (integer) 10

Files

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- Scratches and Consoles

Output demo.bookings.tickets

113 rows

Tx: Auto DDL

| passenger_name   |
|------------------|
| IRINA NOVIKOVA   |
| IRINA MIKHAYLOVA |
| IRINA FILIPPOVA  |
| IRINA MOROZOVA   |
| IRINA ERMAKOVA   |
| IRINA MEDVEDEVA  |
| IRINA ABRAMOVA   |
| IRINA MOISEEVA   |
| IRINA KAZAKOVA   |
| IRINA ORLOVA     |
| IRINA LUKYANOVA  |
| IRINA NIKITINA   |
| IRINA YAKOVLEVA  |
| IRINA STEPANOVA  |
| IRINA AFANASEVA  |
| IRINA SUSEVA     |