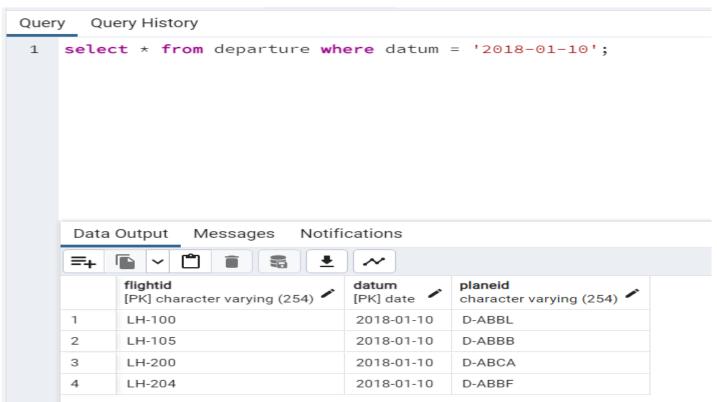
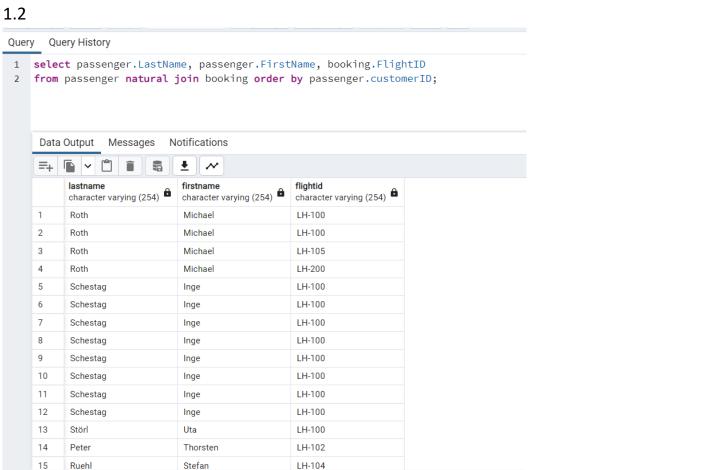
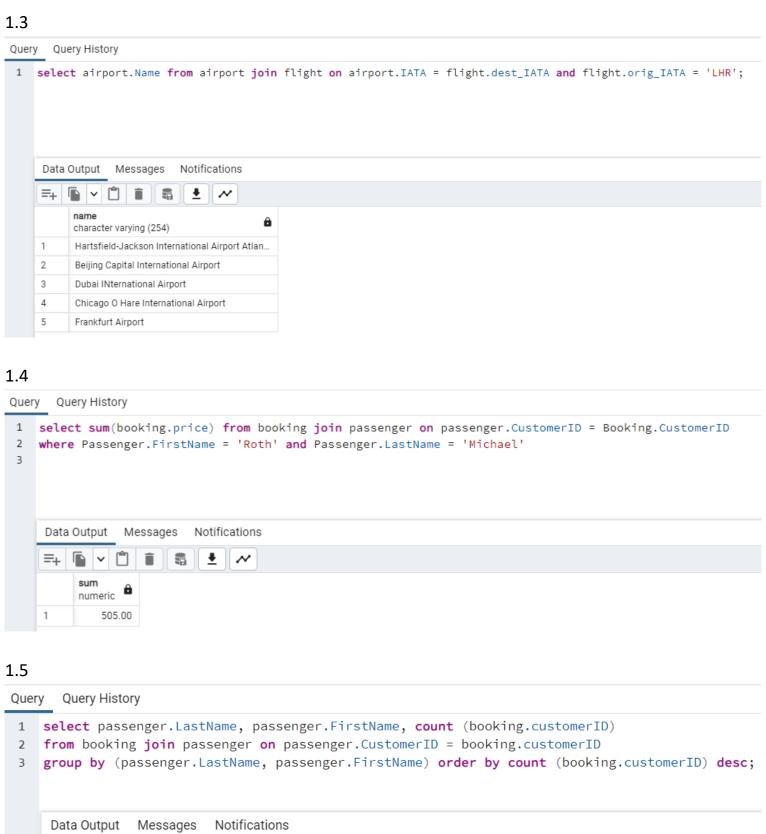
# Datenbanken Praktikum 5

### Aufgabe 1

#### 1.1







L )		from booking join passenger on passenger.CustomerID = booking.customerID								
<u>-</u>	group by (passenger.LastName, passenger.FirstName) order by count (booking.customerID) desc									
	group by (passenger reasonaine, passenger it it senaine) of der by courte (booking reasonaine) desc,									
	Data Output Messages Notifications									
	≡₊									
		lastname character varying (254)	firstname character varying (254)	count bigint						
	1	Schestag	Inge	8						
	2	Roth	Michael	4						
	3	Ruehl	Stefan	1						
	4	Störl	Uta	1						
	5	Peter	Thorsten	1						

Query Query History

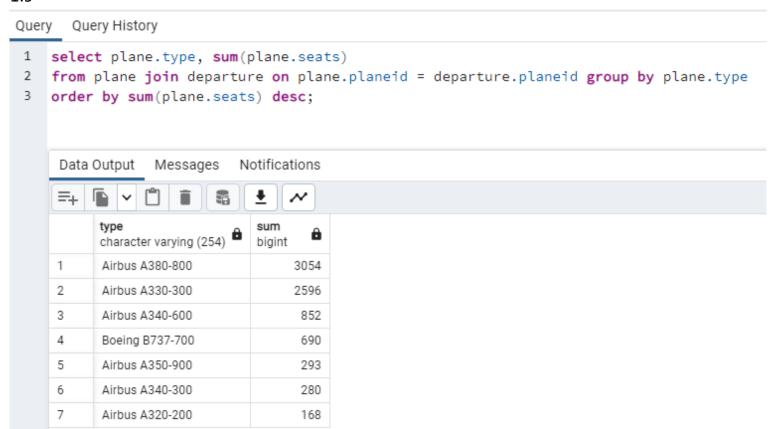
```
1
   SELECT airport.iata
2
   FROM airport
3
   WHERE airport.iata NOT IN (SELECT airport.iata FROM flight)
4
      OR
5
     (SELECT COUNT(*) FROM flight WHERE flight.dest_iata = airport.iata) = 0;
6
    Data Output
                Messages
                           Notifications
         iata
         [PK] character varying (254)
         WDH
    1
```

# 1.7

```
Query History
Query
 1
    WITH
 2
        reachable_airports AS (
 3
             SELECT DISTINCT dest_iata FROM flight WHERE orig_iata = 'FRA'
 4
        ),
 5
        transit_airports AS (
             SELECT DISTINCT orig_iata FROM flight
 6
 7
        )
 8
    SELECT DISTINCT dest_iata
 9
    FROM flight
10
    WHERE orig_iata IN (SELECT * FROM reachable_airports)
    AND dest_iata NOT IN (SELECT * FROM reachable_airports)
11
12
    AND orig_iata IN (SELECT * FROM transit_airports)
    AND dest_iata != 'FRA'
13
14
15
    Data Output
                Messages
                           Notifications
    =+
          dest_iata
         character varying (254) 🏻
    1
          PEK
```

#### Query Query History 1 with flight\_from\_frankfurt as 2 (select departure.planeID from flight join departure on flight.flightID = departure.flightID where flight.orig\_iata = 'FRA' and departure.datum = '2018-02-10') 3 select sum(plane.seats) from Plane natural join flight\_from\_frankfurt; Notifications Data Output Messages =+ sum â bigint 981 1

#### 1.9



#### 1.10



#### 1.11

#### Query Query History

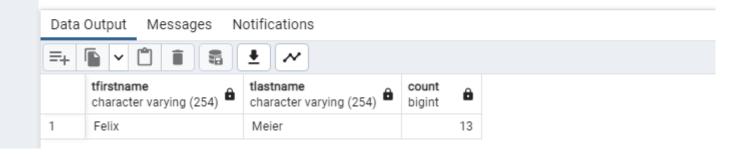
- 1 select technician.tFirstname, technician.tLastname
- 2 from technician join Maintenance on technician.tID = maintenance.tID
- 3 where maintenance.planeID = 'D-ABBB';



#### 1.12

#### Query Query History

- 1 select technician.tFirstName, technician.tLastName, count(maintenance.tID)
- 2 from technician join maintenance on technician.tID = maintenance.tID
- 3 group by technician.tFirstname, technician.tLastName
- 4 order by count(maintenance.tID) desc limit 1;



## Aufgabe 2

```
2.1
 1 Alter Table booking
 2 Add Check (price >= 50.00)
                 Messages Notifications
     Data Output
     ALTER TABLE
     Query returned successfully in 186 msec.
   Insert into Booking(CustomerID, FlightID, Datum, Price) values
   (1 , 'LH-100' , '2018-01-10' , 49.99);
     Data Output
                Messages Notifications
     ERROR: new row for relation "booking" violates check constraint "booking_price_check"
     DETAIL: Failing row contains (1, LH-100, 2018-01-10, 49.99).
     SQL state: 23514
2.2
Query Query History
     Alter Table Plane
 1
     Add Constraint keine_leeren_flugzeuge Check (seats >= 0);
                           Notifications
     Data Output
                Messages
     ALTER TABLE
     Query returned successfully in 126 msec.
   INSERT INTO Plane(PlaneID, Type, Seats) VALUES
   ('D-ABBB', 'Airbus A330-300', -5);
                Messages Notifications
    Data Output
    ERROR: new row for relation "plane" violates check constraint "keine_leeren_flugzeuge"
    DETAIL: Failing row contains (D-ABBB, Airbus A330-300, -5).
    SOL state: 23514
```

# Query Query History

- 1 Alter Table Plane
- 2 Alter seats Set Default 100;

Data Output Messages Notifications

ALTER TABLE

Query returned successfully in 85 msec.

- 1 INSERT INTO Plane(PlaneID, Type) VALUES
- 2 ('B-PLANE', 'Name ILoveDB');

Data Output Messages Notifications

INSERT 0 1

Query returned successfully in 217 msec.

=+		~		
	planeid [PK] character varying (254)	type seats character varying (254) integer		
6	D-ABBG	Airbus A340-300 27		
7	D-ABBH	Airbus A340-300	243	
8	D-ABBI	Airbus A340-600		
9	D-ABBK	Airbus A340-600	293	
10	D-ABBL	Airbus A380-800	509	
11	D-ABBM	Airbus A350-900	293	
12	D-ABBO	Airbus A350-900	297	
13	D-ABBP	Airbus A350-900	288	
14	D-ABBQ	Airbus A350-900	288	
15	D-ABBR	Airbus A320-200	168	
16	D-ABBS	Airbus A320-200 1		
17	D-ABBT	Airbus A320-200	170	
18	D-ABBU	Airbus A320-200	142	
19	D-ABBW	Boeing B747-8	364	
20	D-ABBX	Boeing B747-8		
21	D-ABBY	Boeing B747-8	364	
22	D-ABBZ	Boeing B747-8	364	
23	D-ABCA	Boeing B737-700	86	
24	D-ABCC	Boeing B737-700	88	
25	B-PLANE	Name ILoveDB	100	