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Α

Task Nº1

In this task we will use service draw-sql



Task Nº2

```
CREATE SCHEMA IF NOT EXISTS travels;
CREATE TABLE travels. Employee (
    id INT PRIMARY KEY,
    employee_name VARCHAR(10),
    company_id INT
);
CREATE TABLE travels.Company (
    id INT PRIMARY KEY,
    company_name VARCHAR(10)
);
CREATE TABLE travels.Trip (
    id INT PRIMARY KEY,
    employee_id INT,
    startdate DATE,
    enddate DATE,
    cancelationdate DATE,
    hotel_id INT,
    ticket_1_id INT,
    ticket_2_id INT
);
CREATE TABLE travels.Flight (
    flight_number INT PRIMARY KEY,
    oigin_city_id INT,
    destination_city_id INT,
    air_company VARCHAR(10),
    departure TIMESTAMP,
    ticket_price FLOAT
);
CREATE TABLE travels.Hotel (
    id INT PRIMARY KEY,
    hotel_name VARCHAR(10),
    hotel_address VARCHAR(10),
    city_id INT,
    room_charge FLOAT
```

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```
);
CREATE TABLE travels.City (
    id INT PRIMARY KEY,
    city name VARCHAR(10)
);
ALTER TABLE travels. Employee ADD FOREIGN KEY (company id) REFERENCES
travels.Company (id);
ALTER TABLE travels.Trip ADD FOREIGN KEY (employee id) REFERENCES
travels. Employee (id);
ALTER TABLE travels.Trip ADD FOREIGN KEY (hotel id) REFERENCES
travels.Hotel (id);
ALTER TABLE travels.Trip ADD FOREIGN KEY (ticket 1 id) REFERENCES
travels.Flight (flight number);
ALTER TABLE travels.Trip ADD FOREIGN KEY (ticket_2_id) REFERENCES
travels.Flight (flight number);
ALTER TABLE travels. Hotel ADD FOREIGN KEY (city_id) REFERENCES
travels.City (id);
ALTER TABLE travels.Flight ADD FOREIGN KEY (oigin_city_id) REFERENCES
travels.City (id);
ALTER TABLE travels.Flight ADD FOREIGN KEY (destination_city_id)
REFERENCES travels.City (id);
```

Task Nº3

```
SELECT DISTINCT
    travels.Hotel.id,
    travels.Hotel.hotel_name
FROM
    travels. Employee,
    travels.Trip,
    travels.Flight,
    travels.City AS from_city,
    travels.City AS to_city,
    travels.Hotel
WHERE travels. Employee.id = travels. Trip.employee_id
    AND travels.Trip.ticket_1_id = travels.Flight.flight_number
    -- Employees who travel from Berlin to Paris
    AND travels.Flight.origin_city_id = from_city.id
    AND travels.Flight.destination_city_id = from_city.id
    AND from_city.name LIKE "%Berlin%"
```

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```
AND to_city.name LIKE "%Paris%"

-- Employees who travel this year and their flights were not cancelled AND travels.Trip.canceletiondate IS NULL

AND date_part('year', travels.Trip.startdate) = date_part('year', NOW())

-- Hotels booked in these flights

AND travels.Trip.hotel_id = travels.Hotel.id;
```

Task Nº4

```
SELECT DISTINCT
    travels.Company.id,
    travels.company.company_name
FROM
    travels.Employee,
    travels.Trip
WHERE travels.Employee.comapny_id = travels.Company.id
    AND travels.Trip.employee_id = travels.Employee.id
GROUP BY travels.Trip.hotel_id
```

Task Nº5

```
SELECT DISTINCT
    travels.Company.id,
    travels.company.company_name
FROM
    travels.Employee,
    travels.Trip,
    travels.Flight
WHERE travels.Employee.comapny_id = travels.Company.id
    AND travels.Trip.employee_id = travels.Employee.id
    AND travels.enddate > NOW() - INTERVAL '1 month'
    AND travels.Trip.ticket_2_id = travels.Flight.flight_number
GROUP BY travels.Flight.origin_city_id;
```

Task Nº6

Task Nº7