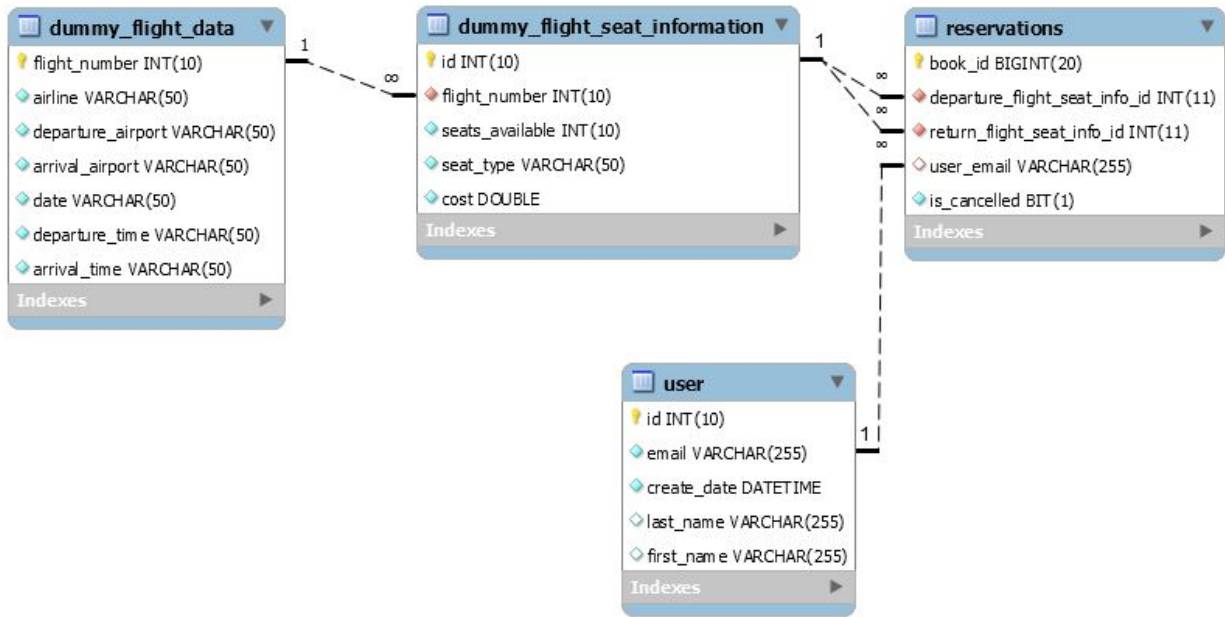


Database Design, Documentation, and EER Diagram



dummy_flight_data

- Description: The dummy_flight_data table contains an entry for every flight. This contains information like airline, departure date and time, departure and arrival airports.
- Fields
 - flight_number: INT(10), primary key
 - airline: VARCHAR(50)
 - departure_airport: VARCHAR(50)
 - arrival_airport: VARCHAR(50)
 - date: VARCHAR(50)
 - departure_time: VARCHAR(50)
 - arrival_time: VARCHAR(50)

dummy_flight_seat_information

- Description: The dummy_flight_seat_information expands on the dummy_flight_data table. It includes information such as the cost of the seat, the type of seat (econ, or luxury), and the number of seats available for booking.
- Relationships with other tables:

- The relationship between this table and the dummy_flight_data table is many to one.
- Fields
 - id: INT(10), primary key
 - flight_number: INT(50), foreign key to `flight_number` field in dummy_flight_data table
 - seats_available: INT(10)
 - seat_type: VARCHAR(50)
 - cost: DOUBLE

users

- Description: The user table holds basic user information, like their email address and name. This is used in conjunction with the reservations table.
- Fields
 - id: INT(10), primary key
 - email: VARCHAR(255), unique, non-null, used as primary key for table
 - create_date: DATETIME
 - last_name: VARCHAR(255)
 - first_name: VARCHAR(255)

reservations

- Description: The reservations table stores the user email address, the seat information, and the cancellation status of the reservation. The email address is optional, and if left blank means that the reservation was made via API.
- Relationships with other tables:
 - The relationship between this table and the dummy_flight_seat_information table is many to one.
 - The relationship between this table and the user table is many to one as well.
- Fields
 - book_id: BIGINT(20), primary key, auto-generated
 - departure_flight_seat_info_id: INT(11), foreign key to `id` in dummy_flight_seat_information table
 - arrival_flight_seat_info_id: INT(11), foreign key to `id` in dummy_flight_seat_information table
 - user_email: VARCHAR(255), foreign key to `email` in user table
 - is_cancelled: BIT(1)