

Create an ER diagram 2 for the given "employee" database.

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1. Dataset description:

Customer: Contains the information of customers

- customer_id – ID of the customer
- first_name – First name of the customer
- last_name – Last name of the customer
- date_of_birth – Date of birth of the customer
- gender – Gender of the customer

Passengers_on_flights: Contains information about the travel details

- aircraft_id – ID of each aircraft in a brand
- route_id – Route ID of from and to location
- customer_id – ID of the customer
- depart – Departure place from the airport
- arrival – Arrival place in the airport
- seat_num – Unique seat number for each passenger
- class_id – ID of travel class
- travel_date – Travel date of each passenger
- flight_num – Specific flight number for each route

Ticket_details: Contains information about the ticket details

- p_date – Ticket purchase date
- customer_id – ID of the customer
- aircraft_id – ID of each aircraft in a brand
- class_id – ID of travel class
- no_of_tickets – Number of tickets purchased
- a_code – Code of each airport
- price_per_ticket – Price of a ticket
- brand – Aviation service provider for each aircraft

Routes: Contains information about the route details

- Route_id – Route ID of from and to location
- Flight_num – Specific flight number for each route
- Origin_airport – Departure location
- Destination_airport – Arrival location
- Aircraft_id – ID of each aircraft in a brand
- Distance_miles – Distance between departure and arrival location

2. ER Diagram:

A) Entities:

- Customer
- Passengers_on_flights
- Ticket_details
- Routes

B) Relationships:

- Customer - Passengers_on_flights ==> **One to One**
- Customer - Ticket_details ==> **One to Many**

- Passengers_on_flights - Customer ==> **One to Many**
- Passengers_on_flights - Ticket_details ==> **One to Many**
- Passengers_on_flights - routes ==> **One to Many**

- Ticket_details - Customer ==> **One to Many**
- Ticket_details - Passengers_on_flights ==> **One to One**

- Routes - Passengers_on_flights ==> **One to Many**