TripSync: Conceptual and Relational Model

Relational Schema

1. User(**User_ID** , Name, Email, Phone No., Age(D.O.B , Year), Sex, Address(House No. , Address_City , Address_PIN))

2. Complaints (**Complaint_number,** *User_Id*(references))
   {Here User_Id is referenced from User Entity that cant be Null as forced Constraint of not Null as there must be a user_Id that needs to have for complaint (Foreign key).}

3. Transport(**Transport_ID** , Destn_Location , Timings , Start_Location , Price , Vacancy(Total , Filled))

4. Hotels(**Hotel_ID**, Vacancy(Total , Filled) , Pricing)

5. Train(*Transport_Id* **, Train No ,** Name) { Transport_Id is a foreign key }

6. Flight(*Transport_Id (references)* **, Flight No ,** Name){ Transport_Id is a foreign key }

7. Booked_Lounge(Date,***User_Id***(references),Flight_no,Offer_code)
   { Here User_Id is used as a foreignkey from user table to reference}

8. Payments(**Payment_ID** , User_ID,Ticket_ID,Payment_Status):
   {User_ID and Ticket_ID is a foreign key}

9. Lounge(**Offers_code**, Timings, Place, Credit card accepted)

10. Tickets(**Ticket_no** , date_of_journey , quantity , Amount , Train_no) {Train_no is a foreign key}

11. Hotel_Invoice(Date , Hotel_ID) {Hotel_ID is a foreign key here}

12. Holiday_Package(Package_Id (Primary Key) , Ticket_no , Hotel_Id , Time_Period,Discounts)

13. Files (Date)

14. Booked_Accomodation (Date)

ER Diagram

1) Entities

1. User
   a. <u>User_ID</u> **(Primary Key)**
   b. Name
   c. Email
   d. Phone No.
   e. Age
      i. D.O.B
      ii. Year
   f. Sex
   g. Address
      i. House No.
      ii. City
      iii. PIN

2. Complaints
   a. <u>Complaint_number</u> **(Primary Key)**
   b. *User_Id {Foreign Key}*
   c. *Description*

3. Transport
   a. <u>Transport_ID</u> **(Primary Key)**
   b. Start_Location
   c. Destination_Location
   d. Timings
   e. Price
   f. Vacancy

4. Hotels
   a. Hotel_ID **(Primary Key)**
   b. Vacancy

        i.   Total

        ii.   Filled

  c. Pricing

5. Train

  a. ***Transport_Id*** **(Foreign Key)**

  b. **Train No (Primary Key)**

  c. Name

  d. Date

6. Flight

  a. *Transport_Id* **(Foreign Key)**

  b. **Flight No (Primary Key)**

  c. Name

7. Payments(

  a. Payment_ID (Primary Key)

  b. User_ID

  c. Hotel Id (May NULL)

  d. Ticket_ID (May NULL)

  e. Payment_Status

8. Lounge

  a. Offers_code (Primary Key)

  b. Timings

  c. Place

  d. Credit card accepted

9. Tickets

  a. Ticket_no (Primary Key)

  b. Date_of_journey

  c. Quantity

  d. Amount

  e. Train_no
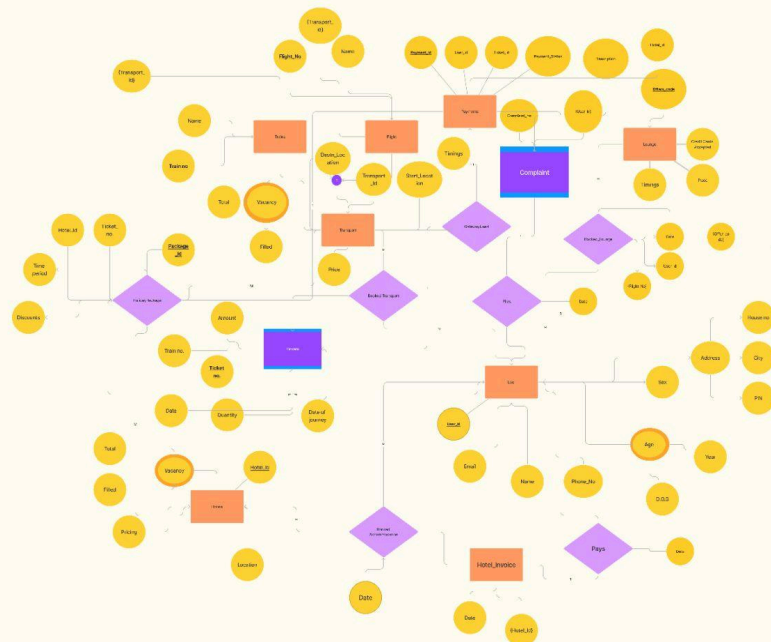
10. Hotel_Invoice

  a. Date

  b. Hotel_Id {Foreign Key}

2) Relations

1) Files
    i) Date

2) Booked_Lounge
    i) Foreign Key: Offer_code
    ii) Date
    iii) User_ID
    iv) Flight_No

3) GatewayUsed

4) Booked Transport

5) Holiday Package
    i) Primary Key: Package_ID
    ii) Ticket No.
    iii) Hotel_ID
    iv) Time Period
    v) Discounts

6) Booked Accomodation
    i) Date

7) Pays

3) Diagram

[(https://www.figma.com/file/xXRbXE9IfZNVdp9JZtIryu/Entity-relationship-(ER)-Diagram-(Community)?type=whiteboard&node-id=0%3A1&t=1ShrrOyfmnmiCiLc-1)](https://www.figma.com/file/xXRbXE9IfZNVdp9JZtIryu/Entity-relationship-(ER)-Diagram-(Community)?type=whiteboard&node-id=0%3A1&t=1ShrrOyfmnmiCiLc-1)