BAN 610 GROUP PROJECT

Members: Vanshika Gupta (jv4361)
Aditya Chavan (hs2256)
Mahavir Parmar (yr5648)
Viral Patel (zb9583)

Company Name: Urban Inspire Salon & Spa

Urban Inspire Salon & Spa has been operating a salon and spa for the last 3 years. Services provided by the Urban Inspire include – hair cut/styling, hair coloring, facial, pedicure, manicure, deep tissue massage, hot stone massage, etc.

To keep a track of employees, customers, appointments and payments, the salon has been using spreadsheets and logbooks. Currently, customers make appointments with the hair stylist, masseuse or other employee to avail the required services. The materials required for the particular branch are tracked and also the time required for each service is noted. Due to the non-existence of a database, it is quite cumbersome to note which appointments, services and products are available or unavailable across the different branches. Hence, to obtain a 360-degree view of the business (inclusive of all branches), Urban Inspire aims to establish a database for tracking the overall activities which helps them to grow their business.

"Urban Inspire" also maintains the data about its employee's residential address, contact information and the pay rate. The customer's gender is also maintained along with their contact information. The appointments recorded include the customer's name along with the date and time of the appointment. All the services provided by "Urban Inspire" are also maintained; which includes service duration and price along with the branch where the services have been provided. The database also maintains the record of all the products which are going to be used by each branch along with product supplier information.

User Requirements and Relationship:

1. Employee is identified with Employee ID and has attributes First Name, Last Name, Date of Birth, Phone Number, Pay Rate, Street, City, State, Zip Code and Email ID

2. Customer is identified with Customer ID, First Name, Last Name, Date of Birth, Phone Number, Gender, Street, City, State, Zip Code and Email ID

3. Service is identified with Service ID and has attributes Service Name and Duration. Service can be Salon or Spa Service or both. Service Type and Service Price are the attributes of Salon Service whereas Spa Service contains Spa Type and Price. Every Spa is associated with one Room, which is identified by Room ID and has an attribute Room Type

4. Branch is identified by Branch ID and has the attribute Branch Name. Every branch has at least one room. Room is associated with one and only one branch

5. ServiceRendered is identified with ServiceRendered ID and has attributes ServiceRendered Start Time and End Time. One ServiceRendered must be a specific to one and only one appointment

6. Employee can render none, one or more services. One ServicesRendered must be rendered by one and only one employee. At one branch at least one or more services are rendered. One or more services can be provided by one or more branch

7. One customer can make one or more appointments. Appointment is identified by Appointment ID and has attributes Appointment Date and Time. It also maintains the Appointment Book Time (i.e. the time at which appointment is booked by the customer). One appointment is reserved for one and only one customer

8. Many products are available in all the branches. Manufacture is identified by Manufacturer ID and has attributes Name, Phone Number, Email ID, Street, City, State and Zip Code

9. Product is identified by Product ID and has attributes Product Name, Price Per Product, and Quantity of the Product. Product may be supplied by one or many manufacturers. One manufacturer can supply at least one or more products with Supply date and Time when they supplied

10. A branch can have one or many products. One product should be available in multiple branches

Conceptual Data Model (Entity Relationship Diagram):

EMPLOYEE
- Emp_ID
- Emp_First_Name
- Emp_Last_Name
- Emp_DOB
- Emp_Ph_No
- Emp_Pay_Rate
- Street
- City
- State
- Zipcode
- Emp_Email_ID

APPOINTMENT
- Apnt_ID
- Apnt_Date
- Apnt_Time
- Apnt_Booked_Time

CUSTOMER
- Cust_ID
- Cust_First_Name
- Cust_Last_Name
- Cust_DOB
- Cust_Ph_No
- Cust_Gender
- Street
- City
- State
- Zipcode
- Cust_Email_ID

Serve

Book

A Specific Service Rendered

Payment_Details

SERVICE_RENDERED
- SR_ID
- SR_Start_Time
- SR_End_Time
- Amount

Payment

Payment_Type
- Payment_type_ID
- Paymenr_Type
  (Card_Number?,
  UPI_ID?,
  Cash?,

Details

PAYMENT
Type,
Amount,
Date,
Time

O

CARD_NO
- Salon_Type

UPI_ID
- Salon_Type

Cash

Allocate

SERVICES
- Service_ID
- Service_Name
- Service_Duration
- Price
- S_Type{'Salon','SPA'}

BRANCH
- Branch_ID
- Branch_Name

Available

PRODUCT
- Product_ID
- Produc_Name
- Price_Per_Product
- Product_Quantity

Supply

MANUFACTURER
- M_ID
- M_Name
- Ph_No
- Email_Id
- Strret
- City
- State
- Zip_code

O

SUPPLY
Date,
Time

S_Type="Salon"   S_Type="SPA"

SALON
- Salon_Type

SPA
- SPA_Type

Allocate

ROOM
- Room_ID
- Room_Type

has