**RELATIONAL SCHEMA AND FUNCTIONAL DEPENDENCIES**

**Minimal Functional Dependencies -**

**USER**

user(**LoginID**, UserName, ContactNo, EmailID, Password)

LoginID → {UserName, ContactNo, EmailID, Password}

**PROMOCODE**

promocode(**PromoID**, Validity, Discount)

PromoID → {Validity, Discount}

**PROMOCODE-AVAILABLE-TO-USER**

promocode-available-to-user(**LoginID**, **PromoID**)

**CITY**

city(**CityID**, CityName, State)

CityID → {CityName, State}

**HOTELS**

hotels(**HotelID,** HotelName, Block, Street, Area, CityID, Rating, TransactionAccNo)

HotelID → {HotelName, Block, Street, Area, CityID, Rating, TransactionAccNo}

**ROOM-TYPES**

RoomTypes(**TypeName, HotelID**, AvgCostPerDay, NoOfPersonPerRoom, RoomsAvailabla)

{TypeName, HotelID} → {AvgCostPerDay, NoOfPersonPerRoom, RoomsAvailable}

**BOOKING**

booking**(TransactionID,** LoginID, HotelID, TypeOfRoom,RoomsBooked, CheckInDate, CheckOutDate, BookingDate, BookingTime, PromoID)

{TransactionID → LoginID, HotelID, TypeOfRoom, RoomsBooked, CheckInDate, CheckOutDate, BookingDate, BookingTime, PromoID}

**RESTAURANT**

restaurant(**ResID,** ResName, Block, Street, Area, CityID, Rating, Cuisines, OpeningHours, ClosingHours, AvgCostPerPerson, VegFood, NonVegFood, JainFood, WiFi-Facility, AC-Facility )

ResID → { ResName, Block, Street, Area, CityID, Rating, Cuisines,OpeningHours, ClosingHours, AvgCostPerPerson, VegFood, NonVegFood, JainFood, WiFi-Facility, AC-Facility}

**PLACES**

places(**PName, Block, Street, Area**, Rating, Category, BestTimeToVisit, CityID )

{PName, Block, Street, Area} → {Rating,Category, BestTimeToVisit, CityID}

**INTRACITY-TRANSPORTATION**

intracity-transportation(**Type, CityID**, AvgCostPerKm)

{Type, CityID} → AvgCostPerKm

**VIEW-HISTORY**

view-history(**LoginID, CityID**, Count)

{LoginID, CityID} → Count

**Hence all relations are in BCNF.**