Final Project: COP 4710

Tables:

- 1. Users (<u>UserID</u>, Username, Email)
 - PK: UserID
 - Constraints: Username, Email Not NULL
- 2. Cities (CityID, CityName, State, Latitude, Longitude)
 - PK: CityID
 - Constraints: CityName, State Not NULL
- 3. Places To Visit (PlaceID, City, PlaceName, Tags, Latitude, Longitude)
 - PK: PlaceID
 - FK: City (references Cities)
- 4. Restaurants (<u>RestaurantID</u>, City, RestaurantName, CuisineType, MealType, Latitude, Longitude)
 - PK: RestaurantID
 - FK: City (references Cities)
- 5. Hotels (HotelID, City, HotelName, Rating, PriceRange, Latitude, Longitude)
 - PK: HotelID
 - FK: City (references Cities)
- 6. Interests (InterestID, InterestName)
 - PK: InterestID
- 7. CanSatisfy (<u>PlaceID</u>, <u>InterestID</u>) (Relation)
 - PK, FK: PlaceID (references PlacesToVisit), InterestID (references Interests)
- 8. UserPreferences (<u>UserID</u>, <u>InterestID</u>) (Relation)
 - PK, FK: UserID (references Users), InterestID (references Interests)
- 9. Food (<u>FoodID</u>, FoodName)
 - PK: FoodID
- 10.FoodPreferences (<u>UserID</u>, <u>FoodID</u>) (Relation)
 - PK, FK: UserID (references Users), FoodID (references Food)
- 11. UserTrips (<u>TripID</u>, UserID, StartingCity, EndingCity, Notes,

NumberOfDays)

- PK: <u>TripID</u>
- FK: UserID (references Users), StartingCity (references Cities, NotNULL), EndingCity (references Cities, NotNULL)

- 12. DayPlan (<u>DayID</u>, TripID, DayNumber, MorningPlaceID, AfternoonPlaceID, NightPlaceID, BreakfastRestaurantID, LunchRestaurantID, DinnerRestaurantID, HotelID, Notes)
 - PK: DayID
 - FK: TripID (references UserTrips), MorningPlaceID (references PlacesToVisit), AfternoonPlaceID (references PlacesToVisit), NightPlaceID (references PlacesToVisit), BreakfastRestaurantID (references Restaurants, NotNULL), LunchRestaurantID (references Restaurants, NotNULL), DinnerRestaurantID (references Restaurants, NotNULL)