

Normalized Schema Overview

- Person(ID: char(16), uname: char(32), email: char(255))
 - ID: PK
 - uname: NOT NULL
 - email: UNIQUE NOT NULL
- TouristGroup(ID: char(16), title: char(32))
 - ID: PK
- Member(userID: char(16), groupID: char(16))
 - PK/CK: (userID, groupID)
 - FK (userID) references Person(ID)
 - FK (groupID) references TouristGroup(ID)
- Guide(ID: char(16), title: char(32), **authorID**: char(16))
 - ID: PK
 - authorID: NOT NULL
 - FK (authorID) references Person(ID)
- Itinerary(ID: char(16), title: char(32))
 - ID: PK
- GroupPlans(itineraryID: char(16), **groupID**: char(16), maxParticipants: int)
 - itineraryID: PK
 - groupID: NOT NULL
 - FK (groupID) references TouristGroup(ID)
 - FK (itineraryID) references Itinerary(ID)
- UserPlans(itineraryID: char(16), **userID**: char(16))
 - itineraryID: PK
 - userID: NOT NULL
 - FK (userID) references Person(ID)
 - FK (itineraryID) references Itinerary(ID)
- City(country: char(32), cityName: char(32), region: char(32))
 - PK/CK: (country, cityName, region)

- Language(country: char(32), region: char(32), localLanguage: char(16))
 - localLanguage: NOT NULL
 - currency: NOT NULL
 - PK/CK: (country, region)
- Currency(country: char(32), currency: char(16))
 - country: PK
 - currency: NOT NULL
- Transport(ID: char(16), transportType: char(16))
 - ID: PK
- Location(address: char(128), **country**: char(32), **cityName**: char(32), **region**: char(32), locationName: char(32), opening: timestamp, closing: timestamp)
 - address: PK
 - FK (country, cityName, region) references City(country, cityName, region)
- Event(eventName: char(64), startsAt: timestamp, address: char(128), admissionPrice: float)
 - PK/CK: (eventName, startsAt, address)
 - FK (address) references Location(address)
- Attraction(address: char(128), admissionPrice: float, attractionType: char(16))
 - address: PK
 - FK (address) references Location(address)
- Dining(address: char(128), cuisine: char(16))
 - address: PK
 - FK (address) references Location(address)
- Hospitality(address: char(128), rate: float)
 - address: PK
 - FK (address) references Location(address)
- About(guideID: char(16), address: char(128), description: varchar2(1000))
 - PK: (guideID, address)
 - FK (guideID) references Guide(ID)
 - FK (address) references Location(address)

- TravelsBetween(**itineraryID**: char(16), **transportID**: char(16), **departure**: timestamp, arrival: timestamp, **toAddress**: char(128), **fromAddress**: char(128))
 - transportID: NOT NULL
 - toAddress: NOT NULL
 - fromAddress: NOT NULL
 - PK/CK: (itineraryID, transportID, departure)
 - FK (itineraryID) references Itinerary(ID)
 - FK (transportID) references Transport(ID)
 - FK (toAddress, fromAddress) references Location(address)