Title: Database for Travel information management system.

Scope of Database:

A company wants to keep track of all travelers who use their services and travel from one place to another. Our task is to provide required statistical information when needed. We will provide package, offers information whenever needed. It also keeps track of various agencies associated with it, booking, payment and services related information.

Description / Requirements:

- Passenger has id, fname, lname, aadharno, birthdate, contactno.
- If multiple passengers are traveling together, they will be assigned a groupid which will be id of one of the passenger.
- Booking has bookingid, date_of_booking, group_id, package_id, price.
- Ticket has booking_id, ticket_no, date_of_ticket,price.
- package has packageid, pname, type, transport_mode, source_city, destination_city, days, nights, price.
- Payment has paymentid, mode_of_payment, ticketno, mode, date.
- One group can be assigned to only one agency. But one agency can handle many groups.
- A group of traveller stayed in which hotel with which package is stored.
- Passenger can choose any transport mode.
- Passenger can choose only one package at a time but one package can be selected by many passengers.
- One city has only one agency associated with it.
- On one booking, one ticket is booked and it contains the groupid thus all passengers are connected. Price of ticket is counted by the number of passengers a group contains multiplied by the price of package.
- Group_package_hotel contains groupid,hotelid,packageid,journey_Date thus it stores all details. We have unique records because date of journey will be different as no group will book the same package with same hotel on same day.
- Hotel is allotted as per the package and destination city. One group can be in only one hotel but one hotel can have multiple groups reside in it at the same time.
- Offers are provided for limited time. If group chooses to use it, discount is given on the total bill amount. One group can apply offer 3 times.
- Insurance is provided to every passenger but its not mandatory. However if something happens its duty of passenger to claim it.
- Passenger can give multiple feedback

- Whenever new hotel or insurance is connected with company, they are made available as a service.
- One package takes you to one city. However, you can go to one city using various packages.
- Whenever passenger resides in a hotel or takes insurance, entry is there in passenger_service table.

Queries that the database system should be able to answer

1. Find all agencies with respective cities.
2. Find firstname,lastname and ids of passengers who have used 'LE PLAZA' package.
3. List hotels and packages used by all groups.
4. Find out the passengers who have paid with cash and had gone to "Sweet Moon" package.
5. Find out the hotel which has maximum ratings in city of Kashmir.
6. Show the package information along with number of times they are used.
7. Show all offers that are currently active.
8. Show all package offers that are active and will remain active for one month.
9. Find out the passengers who have given more than 2 feedbacks and list them.
10. List out the passengers who have taken insurance with their source cities.
11. List cities with number of times they have been visited by the groups in descending order.
12. Display all destination cities where passengers can go where supervisor has been allocated.
13. Display all package that has 'BUS' as transport mode and 5 days of duration.
14. Display passenger who has given a lengthy feedback(more than 50 characters) also display it.
15. Retrieve the name of the insurance company which is used more by the travellers.
16. Find total male and female passengers.
17. Find the offer that's been used most.
18. Retrieve the name of the passengers who are in age-group of 18-25 and gone to Daman.
19. Retrieve the name of the passengers who have used 'BUMPER' offercode.
20. Given name of the city, find average age of passengers that have traveled there.
21. Find out the cities which have been visited most times.
22. Find out the total payment received in this month.
23. Find out the passengers who have used ALL packages.(Division Operator).