Project Overview-

In this project we are creating a 'Travel Agency Program'. This program makes it easy for a traveler to travel to the place his heart desires. The Travel Agency has numerous facilities like Customized Travel plans, Seasonal plans, pre-made Travel plans, etc. When a user wants his tour planned, he can contact a Marketing team individual who will assign him to an agent. This agent will guide him throughout the process. Users' plans are made and managed by one of the most valuable facilities 'Agent'. An agent can help the traveler make his tour plan, the major elements in planning would be Location, Transportation facility and Hotel stay. Based on the previous data, our best deals etc. an Agent will be able to assist the Traveler to find the best deal out of all the options available.

Entity Sets-

1. Traveler (SSN, Name, Contact)

2. Marketing_team (SSN, Name, Contact)

3. Agent (SSN, Name, Contact)

4. Travel_order (Order_id, Travel year, Travel_month)

6. Location (Country, City)

7. Transport (Ticket_no, Transportation_mode, Traveling_from_country, Traveling_from_city, Traveling_to_country, Traveling_to_city, Fare_in_usd)

8. Hotel (Registration_no, Room_type, Country, City, Name, Rating, Price_in usd)

8. Travel_plans (Travel_plan_id, Festival, Country, City, Festival_month)

Business Rules-

Our Travel agency portal KMisha serves to its Employees as well as Customers.

- A Marketing team representative is identified by SSN, and has a name contact information. This team is mainly responsible for attracting customers to our agency and a representative can be associated with as many as customers.

- A Traveler is identified by its SSN, it also has a name and contact information.

- An Agent is identified by SSN, and has a name contact information.

- A Traveler is advised by exactly one agent who will be working with them throughout the tour plan, but an Agent can be associated with as many as Travelers.

- An Agent can have a supervisor or a subordinate.

- Agents work with Marketing team. An agent can be associated with at most one marketing team representative. Marketing team representative has to be associated with at least one Agent.

- Agents work on creating Travel orders for their customers (travelers). An Agent can work on as many as travel orders but a travel order has to be created by exactly one Agent. A traveler can place as many as travel orders but an order can

be placed by <u>at least one</u> Traveler (Two or more travelers who are family or friends can have same order number but for the sake of this demo project, we only chose to represent orders belonging to exactly one customer).

- A Travel order consists of Trip details and is identified by its order id, it also has Travel month and year.

- Trip details consist of various travel attributes. It must include at least one travel Location, Transportation mode, and Hotel for stay as a part of the travel package.

- Location is identified by combination of Country and City.

- Transport is identified by Ticket number. It also has Transportation mode, Travelling to city, Travelling from city, Travelling to country, Travelling from country, Fare in usd information.

- Hotel is identified by Registration number, Name, Room type, City and Country, Rating, and Price in usd.

- Our Marketing team offers Travel plans (brochures) which are identified by Travel plan id. It also has information about City, Country, Festivals that are celebrated in those cities/countries, and the month in which they occur. A Travel plan has to be associated with <u>at least one</u> Marketing team representative.

ER Diagram-