TRAVEL AGENCY

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## Problem statements:

The purpose of the design is to establish fact that internet users are increasing today and to facilitate the customer online because they cannot spend their time in market finding best deals.

Problem is that we although having many websites but they offer different kind of services. The customers are enjoying a lot but there is a lack of relationship between travel agency and customer and hence we are establishing that relationship by caring and serving all customers in the same manner that we wish to be served.

* Our priority will be our customers and their travel requirements.
* There will be many users visiting the portal and hence we require a strong and reliable management system which can hold the users on our site.
* The data we will be consisting is very important that can help everyone and hence we need a strong database.
* We will be putting an effort to provide the right choice to the people when they plan a holiday.
* Providing with the best deal in a price possible by also giving them the idea of how easy their and comfortable their tour is going to happen without thinking twice about it.

In the ER – Diagram the Is represented for the primary key of an entity set.

Is represented for the attributes of the entity set.

Is represented for the relationship set .

Is represented for the strong entity sets.

Is represented for the weak entity sets.

### Agency details

We store the details about the Agency and the access way of all the data available to keep the record and watch and manage it, by one should need to access the records through the login id and password

### Customer details

Data of the customers and provided packages to them that mostly include their personal data name, age sex, phone no. , email id etc.

### Booking details

It will tell us about the person those have booked in the particular tour and status. Whether there is an availability or not, booking starting date and ending date

### Services

The hotels and room selected and given as per the price and suitable for customer where they are going to stay. There are different options of transportation available for the tour which suitable best for the person.

# ER Analysis-

### Entity sets

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| S.no. | Entity sets names | Attributes | Primary key | Weak/strong |
| 1. | Travel\_agency | Agency\_details, travel\_agency\_id | Travel\_agency\_id | strong |
| 2. | booking | Customer\_id,date\_of\_booking,Travel\_agency\_id,  status\_code,Outcome\_code,booking\_code,  Booking\_id | Booking\_id | strong |
| 3. | customer | Customer\_id,name, age, sex, email | Customer\_id | strong |
| 4. | address | Address\_id, addresses, phoneno. | Address\_id | strong |
| 5. | payment | Payment\_id,booking\_id,payment\_amount, Date , time | Payment\_id | strong |
| 6. | Booking\_outcome | Outcome\_code, description | Outcome\_code | strong |
| 7. | Booking\_status | Status\_code, description | Status\_code | strong |
| 8. | Service\_booking | Service\_id,booking\_id,start\_date,end\_date | Service\_id | weak |
| 9. | Service\_offered | Service\_id,service\_details,transport\_id,hotel\_id | Service\_id | strong |
| 10. | Customer\_address | Address\_id,customer\_address\_id,customer\_id,date\_from,date\_to | customer\_address\_id | strong |

### Functional dependency

|  |  |  |  |
| --- | --- | --- | --- |
| S.NO. | Table Name | Candidate key | Functional dependency |
| 1. | Travel\_agency | Trave\_agency\_id | Trave\_agency\_id agency\_details |
| 2 | booking | Booking\_id | Booking\_id status\_code, outcome\_code, booking\_detail, date\_of\_booking,customer\_id, travel\_agency\_id |
| 3 | customer | Customer\_id | Customer\_id name,sex,age, phone\_no,email |
| 4 | payment | Payment\_id | Payment\_id payment\_amount, booking\_id, payment\_date, payment\_time |
| 5 | Address | Address\_id | Address\_id address,phone |
| 6 | Booking\_outcome | Outcome\_code | Outcome\_code outcome\_description |
| 7 | Booking\_status | Status\_code | Status\_code status\_description |
| 8. | Service\_offered | Service\_id | service\_id transport\_id, tansport\_details, service\_details, hotel\_id |
| 9. | Customer\_address | customer\_ address\_id | customer \_address\_id customer\_\_id, address\_id, date\_from , date\_to |
| 10. | Service\_booking | Service\_id | Booking\_id,booking\_satrt\_date, booking\_end\_date |

### Relationship sets

|  |  |  |
| --- | --- | --- |
| S.No. | Relationship sets name | attributes |
| 1. | customer | Customer\_id,booking\_id |
| 2. | location | Address\_id, customer\_Address\_id |
| 3. | Person | Customer\_id, customer\_Address\_id |
| 4. | receipt | Payment\_id,booking\_id |
| 5. | service | Service\_id, booking\_id |
| 6. | Transport\_hotel | Service\_id,tansport\_id,hotel\_id |

### Tables and attributes:

|  |  |  |
| --- | --- | --- |
| S.NO. | Tables | Attributes |
| 1. | Travel\_agency | Agency\_details, travel\_agency\_id |
| 2. | booking | Customer\_id,date\_of\_booking,Travel\_agency\_id,status\_code, Outcome\_code,booking\_code,Booking\_id |
| 3. | customer | Customer\_id,name, age, sex, email,phoneno. |
| 4. | address | Address\_id, addresses, phoneno. |
| 5. | payment | Payment\_id,booking\_id,amount,Date , time |
| 6. | Booking\_outcome | Outcome\_code, description |
| 7. | Booking\_status | Status\_code, description |
| 8. | Service\_booking | Service\_id,booking\_id,start\_date,end\_date |
| 9. | Service\_offered | Service\_id,service\_details,transport\_id,hotel\_id |
| 10. | Customer\_address | Address\_id,customer\_address\_id,customer\_id,date\_from,date\_to |
| 11. | train | Train\_id,transport\_id,train\_detail |
| 12. | Airline | Airline\_id,transport\_id,airline\_detail |
| 13. | Car | Car\_id,transport\_id,car\_deatil |
| 14. | hotel | Hotel\_id,hotel\_name,hotel\_address,hotel\_phone\_no. |