**Requirements**

**Database name: WanderersVGopalakrishnan**

**Users:** Trekkers, Guides, Admins

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Trekker details** | | | | |
| **Attribute Name** | **Data Type** | **Size** | **Constraints/Domains** | **Cascading Problems** |
| T\_ID | varchar | 10 | 2 or 3 alphabets with the state code and numbers | Cascade delete |
| T\_FirstName | varchar | 50 | First name |  |
| T\_LastName | varchar | 50 | Last name |  |
| T\_DOB | Date |  |  |  |
| T\_Phone | numeric | 12 | 10 digits in most of the countries |  |
| T\_Email | varchar | n | Valid only if it contains @, .com |  |
| T\_State | varchar | n | State with state code |  |
| T\_IsActive | Bool |  |  |  |
| T\_WithFamily | Bool |  |  |  |
| T\_Pet | Bool |  |  |  |
| T\_TotCount | Int | 3 |  |  |
| T\_TrekCard | Bool |  |  |  |
| T\_CardNum | Varchar | 10 |  |  |

**Primary Key(s):** T\_ID

**Foreign Key(s):**

**Indices:** T\_LastName, T\_DOB

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Guide details** | | | | |
| **Attribute Name** | **Data Type** | **Size** | **Constraints/Domains** | **Cascading Problems** |
| G\_ID | Int | 5 | Only numbers auto generated | Cascade delete |
| G\_Name | Varchar | 100 | First and Last Name |  |
| G\_DOB | Date |  | Should be more than 18 |  |
| G\_Phone | Numeric | 12 | 10 digits in most of the countries |  |
| G\_Email | Varchar | n | Valid only if it contains @, .com |  |
| G\_Category | Varchar | 25 |  |  |
| G\_IsActive | Bool |  |  |  |
| G\_TrekCard | Bool |  |  |  |
| G\_CardNum | Varchar | 10 |  |  |

**Primary Key(s):** G\_ID

**Foreign Key(s):** Category\_Name from Category

**Indices:** G\_Name, G\_DOB

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Admin details** | | | | |
| **Attribute Name** | **Data Type** | **Size** | **Constraints/Domains** | **Cascading Problems** |
| A\_ID | Int | 5 | Numbers auto generated | Cascade delete |
| A\_Name | Varchar | 100 | First and last name |  |
| A\_DOB | Date |  | Should be > 18 years old |  |
| A\_Phone | Numeric | 12 | 10 digits in most of the countries |  |
| A\_Email | Varchar | n | Valid only if it contains @, .com |  |
| A\_IsActive | Bool |  |  |  |

**Primary Key(s):** A\_ID

**Foreign Key(s):** A\_ID

**Indices:** A\_Name, A\_DOB

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Login details** | | | | |
| **Attribute Name** | **Data Type** | **Size** | **Constraints/Domains** | **Cascading Problems** |
| LoginID | Varchar | 10 |  |  |
| Password | Varchar | 20 |  |  |
| LastLogin | Date |  |  |  |
| IsActive | Bool |  |  |  |

**Primary Key(s):** LoginID

**Foreign Key(s):** T\_ID from Trekker, G\_ID from Guide, A\_ID from Admin

**Indices:**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Category details** | | | | |
| **Attribute Name** | **Data Type** | **Size** | **Constraints/Domains** | **Cascading Problems** |
| Category\_ID | Varchar | 10 | First 2/3 letters with state code | Cascade delete, update |
| CategoryName | Varchar | 25 | Kind of event |  |
| Cat\_IsActive | Bool |  |  |  |

**Primary Key(s):** Category\_ID

**Foreign Key(s):**

**Indices:**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Event details** | | | | |
| **Attribute Name** | **Data Type** | **Size** | **Constraints/Domains** | **Cascading Problems** |
| EventID | Varchar | 10 | First 2/3 letters with state code |  |
| EventName | Varchar | 25 | Kind of event |  |
| Event\_IsActive | Bool |  |  |  |
| Event\_MaxCount | Int | 3 | Number of people |  |

**Primary Key(s):** EventID

**Foreign Key(s):** EventID

**Indices:**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Current trip** | | | | |
| **Attribute Name** | **Data Type** | **Size** | **Constraints/Domains** | **Cascading Problems** |
| Trip\_ID | Int | 5 |  |  |
| Trip\_Name | Varchar | 25 |  |  |
| Trip\_Category | Varchar | 25 |  |  |
| Trip\_IsActive | Bool |  |  |  |
| Trip\_From | Date |  |  |  |
| Trip\_To | Date |  |  |  |
| Trip\_State | Varchar | 25 |  |  |
| Trip\_Commute | varchar | 50 |  |  |
| Trip\_Food | Varchar | 50 |  |  |
| Trip\_Pet | Bool |  |  |  |
| Trip\_MediSupp | Bool |  |  |  |
| Trip\_Bonfire | Bool |  |  |  |
| Trip\_Insurance | Bool |  |  |  |
| Trip\_Toileteries | Bool |  |  |  |
| Trip\_Rate | Currency |  |  |  |
| Trip\_Guide | Varchar | 50 |  |  |

**Primary Key(s):** Trip\_ID

**Foreign Key(s):** CategoryName from Category, TrainID from Train. Trip food from Food. BusID from Bus, GuideName from Guide

**Indices:**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Archived trip** | | | | |
| **Attribute Name** | **Data Type** | **Size** | **Constraints/Domains** | **Cascading Problems** |
| ATrip\_ID | Int | 5 |  |  |
| ATrip\_Status | Varchar | 10 |  |  |

**Primary Key(s):** ATrip\_ID

**Foreign Key(s):** Trip\_ID from Current Trip

**Indices:**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Lodging details** | | | | |
| **Attribute Name** | **Data Type** | **Size** | **Constraints/Domains** | **Cascading Problems** |
| Lodge\_ID | Int | 5 |  |  |
| Lodge\_Name | Varchar | 50 |  |  |
| Lodge\_State | Varchar | 50 |  |  |
| Lodge\_Budget | Currency |  |  |  |
| Lodge\_Count | Int | 3 |  |  |

**Primary Key(s):** Lodge\_ID

**Foreign Key(s):**

**Indices:**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Bus details** | | | | |
| **Attribute Name** | **Data Type** | **Size** | **Constraints/Domains** | **Cascading Problems** |
| BusID | Int | 5 |  |  |
| Bus\_Name | Varchar |  |  |  |
| Bus\_Budget | Currency |  |  |  |
| Bus\_MaxCount | Int | 3 |  |  |

**Primary Key(s):** BusID

**Foreign Key(s)**

**Indices:**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Train details** | | | | |
| **Attribute Name** | **Data Type** | **Size** | **Constraints/Domains** | **Cascading Problems** |
| TrainID | int | 5 |  |  |
| Train\_Name | Varchar | 25 |  |  |
| Train\_Budget | Currency |  |  |  |
| Train\_State | varchar | 10 |  |  |

**Primary Key(s):** TrainID

**Foreign Key(s)**

**Indices:**