**USER**

* **UserID** (PK)
* UserName
* Password
* ContactNumber
* Email
* Role
* CreatedAt

**TRAVELER**

* **UserID** (PK, FK→USER.UserID)
* CNIC
* DateOfBirth
* Nationality
* JoinDate

**TRAVELER\_PREFERENCE**

* **UserID** (PK, FK→TRAVELER.UserID)
* **Preference** (PK)

**ADMIN**

* **UserID** (PK, FK→USER.UserID)
* JoinDate
* LastLogin

**LOCATION**

* **LocationID** (PK)
* City
* Country
* Description

**SERVICE\_PROVIDER**

* **LicenseNo** (PK)
* ProviderName
* ProviderType
* UserID (FK→USER.UserID)
* LocationID (FK→LOCATION.LocationID)
* JoinDate

**TOUR\_OPERATOR**

* **LicenseNo** (PK, FK→SERVICE\_PROVIDER.LicenseNo)
* CompanyName
* Revenue
* JoinDate

**HOTEL**

* **H\_Id** (PK)
* TotalRooms
* LicenseNo (FK→SERVICE\_PROVIDER.LicenseNo)

**GUIDE**

* **G\_Id** (PK)
* Specialization
* LicenseNo (FK→SERVICE\_PROVIDER.LicenseNo)

**GUIDE\_LANGUAGE**

* **G\_Id** (PK, FK→GUIDE.G\_Id)
* **Language** (PK)

**TRANSPORT**

* **T\_Id** (PK)
* VehicleType
* Capacity
* LicenseNo (FK→SERVICE\_PROVIDER.LicenseNo)

**TRIP**

* **TripID** (PK)
* Title
* Type
* Status
* Capacity
* Price
* DayOrder
* StartDate
* EndDate
* AdminID (FK→ADMIN.UserID)

**CATEGORY**

* **CategoryID** (PK)
* Name
* Description

**TRIP\_CATEGORY**

* **TripID** (PK, FK→TRIP.TripID)
* **CategoryID** (PK, FK→CATEGORY.CategoryID)

**BOOKINGS**

* **BookingID** (PK)
* TripID (FK→TRIP.TripID)
* UserID (FK→TRAVELER.UserID)
* BookDate
* Status
* GroupSize

**PAYMENT**

* **PaymentID** (PK)
* BookingID (FK→BOOKINGS.BookingID)
* TransactionDate
* PaymentMethod
* Amount
* Status

**TICKET**

* **TicketID** (PK)
* BookingID (FK→BOOKINGS.BookingID)
* Type
* IssueDate
* ExpiryDate

**REVIEW**

* **ReviewID** (PK)
* TripID (FK→TRIP.TripID)
* UserID (FK→TRAVELER.UserID)
* Rating
* Comment
* ReviewDate
* ApproveStatus
* ModeratedBy (FK→ADMIN.UserID)
* ModerationDate

**TRIP\_STOPS**

* **StopID** (PK)
* TripID (FK→TRIP.TripID)
* LocationID (FK→LOCATION.LocationID)
* PlaceName
* ArrivalDate
* DepartDate

**OFFERS**

* **TripID** (PK, FK→TRIP.TripID)
* **LicenseNo** (PK, FK→SERVICE\_PROVIDER.LicenseNo)
* Price

**CANCELLATION**

* **CancellationID** (PK)
* BookingID (FK→BOOKINGS.BookingID)
* Reason
* Status

**REFUND**

* **RefundID** (PK)
* BookingID (FK→BOOKINGS.BookingID)
* RefundDate
* Amount

**TRIP\_SERVICE\_ASSIGNMENT**

* **AssignmentID** (PK)
* TripID (FK→TRIP.TripID)
* OperatorLicenseNo (FK→TOUR\_OPERATOR.LicenseNo)
* ProviderLicenseNo (FK→SERVICE\_PROVIDER.LicenseNo)
* AssignedDate
* AssignmentStatus
* ResponseDate

**NORMALIZED VERSION:**

**USER**

* **UserID** (PK)
* UserName
* Password
* ContactNumber
* Email
* Role
* CreatedAt
* RegDate

**TRAVELER**

* **UserID** (PK, FK→USER.UserID)
* CNIC
* DateOfBirth
* Nationality
* JoinDate

**TRAVELER\_PREFERENCE**

* **UserID** (PK, FK→TRAVELER.UserID)
* **Preference** (PK)

**ADMIN**

* **UserID** (PK, FK→USER.UserID)
* JoinDate
* LastLogin

**LOCATION**

* **LocationID** (PK)
* City
* Country
* Description

**SERVICE\_PROVIDER**

* **LicenseNo** (PK)
* ProviderName
* ProviderType
* UserID (FK→USER.UserID)
* LocationID (FK→LOCATION.LocationID)
* JoinDate

**TOUR\_OPERATOR**

* **LicenseNo** (PK, FK→SERVICE\_PROVIDER.LicenseNo)
* CompanyName
* JoinDate

**HOTEL**

* **H\_Id** (PK)
* TotalRooms
* LicenseNo (FK→SERVICE\_PROVIDER.LicenseNo)

**GUIDE**

* **G\_Id** (PK)
* Specialization
* LicenseNo (FK→SERVICE\_PROVIDER.LicenseNo)

**GUIDE\_LANGUAGE**

* **G\_Id** (PK, FK→GUIDE.G\_Id)
* **Language** (PK)

**TRANSPORT**

* **T\_Id** (PK)
* VehicleType
* Capacity
* LicenseNo (FK→SERVICE\_PROVIDER.LicenseNo)

**TRIP**

* **TripID** (PK)
* Title
* Type
* Status
* Capacity
* Price
* DayOrder
* StartDate
* EndDate
* AdminID (FK→ADMIN.UserID)

**CATEGORY**

* **CategoryID** (PK)
* Name
* Description

**TRIP\_CATEGORY**

* **TripID** (PK, FK→TRIP.TripID)
* **CategoryID** (PK, FK→CATEGORY.CategoryID)

**BOOKINGS**

* **BookingID** (PK)
* TripID (FK→TRIP.TripID)
* UserID (FK→TRAVELER.UserID)
* BookDate
* Status
* GroupSize

**PAYMENT**

* **PaymentID** (PK)
* BookingID (FK→BOOKINGS.BookingID)
* TransactionDate
* PaymentMethod
* Amount
* Status

**TICKET**

* **TicketID** (PK)
* BookingID (FK→BOOKINGS.BookingID)
* Type
* IssueDate
* ExpiryDate

**REVIEW**

* **ReviewID** (PK)
* TripID (FK→TRIP.TripID)
* UserID (FK→TRAVELER.UserID)
* Rating
* Comment
* ReviewDate
* ApproveStatus
* ModeratedBy (FK→ADMIN.UserID)
* ModerationDate

**TRIP\_STOPS**

* **StopID** (PK)
* TripID (FK→TRIP.TripID)
* LocationID (FK→LOCATION.LocationID)
* PlaceName
* ArrivalDate
* DepartDate

**OFFERS**

* **TripID** (PK, FK→TRIP.TripID)
* **LicenseNo** (PK, FK→SERVICE\_PROVIDER.LicenseNo)
* Price

**CANCELLATION**

* **CancellationID** (PK)
* BookingID (FK→BOOKINGS.BookingID)
* CancelDate
* Reason
* Status

**REFUND**

* **RefundID** (PK)
* BookingID (FK→BOOKINGS.BookingID)
* RefundDate
* Amount

**TRIP\_SERVICE\_ASSIGNMENT**

* **AssignmentID** (PK)
* TripID (FK→TRIP.TripID)
* OperatorLicenseNo (FK→TOUR\_OPERATOR.LicenseNo)
* ProviderLicenseNo (FK→SERVICE\_PROVIDER.LicenseNo)
* AssignedDate
* AssignmentStatus
* ResponseDate

**Notes on normalization:**

1. **1NF:** No repeating or composite attributes.
2. **2NF:** All non‑key attributes fully depend on the whole PK.
3. **3NF/BCNF:** No transitive dependencies; every determinant is a candidate key.
4. **4NF:** No table contains two or more independent multivalued facts.