**DATA DICTIONARY**

**ReservationFact**

| **Field Name** | **Data Type** | **Description** |
| --- | --- | --- |
| ReservationKey | INT | Primary key identifier for the reservation |
| TimeKey | INT | Foreign key to TimeDim, represents when the reservation was made |
| GuestKey | INT | Foreign key to GuestDim, represents who made the reservation |
| RoomKey | INT | Foreign key to RoomDim, represents which room was reserved |
| HotelKey | INT | Foreign key to HotelDim, represents which hotel was reserved |
| EventKey | INT | Foreign key to EventDim, represents associated event (if any) |
| ReservationID | VARCHAR(20) | Unique identifier for the reservation in the operational system |
| CheckInDate | DATE | Date the guest checked in |
| CheckOutDate | DATE | Date the guest checked out |
| TotalRoomRevenue | DECIMAL(10,2) | Total revenue from room charges |
| TotalAncillaryRevenue | DECIMAL(10,2) | Total revenue from additional services |
| NumberOfGuests | INT | Number of guests in the reservation |
| BookingChannel | VARCHAR(50) | Method used to make the reservation (website, phone, etc.) |
| SatisfactionScore | INT | Guest satisfaction rating for the stay |

**GuestDim**

| **Field Name** | **Data Type** | **Description** |
| --- | --- | --- |
| GuestKey | INT | Primary key identifier for the guest |
| GuestID | VARCHAR(20) | Unique identifier in the operational system |
| FirstName | VARCHAR(50) | Guest's first name |
| LastName | VARCHAR(50) | Guest's last name |
| Email | VARCHAR(100) | Guest's email address |
| Phone | VARCHAR(20) | Guest's phone number |
| Address | VARCHAR(100) | Guest's street address |
| City | VARCHAR(50) | Guest's city |
| State | VARCHAR(50) | Guest's state/province |
| Country | VARCHAR(50) | Guest's country |
| LoyaltyTier | VARCHAR(20) | Guest's loyalty program status |
| Organization | VARCHAR(100) | Guest's affiliated organization |
| TotalStays | INT | Total number of previous stays |

**HotelDim**

| **Field Name** | **Data Type** | **Description** |
| --- | --- | --- |
| HotelKey | INT | Primary key identifier for the hotel |
| HotelID | VARCHAR(20) | Unique identifier in the operational system |
| HotelName | VARCHAR(100) | Name of the hotel |
| Brand | VARCHAR(50) | Brand/chain the hotel belongs to |
| City | VARCHAR(50) | City where the hotel is located |
| State | VARCHAR(50) | State/province where the hotel is located |
| Country | VARCHAR(50) | Country where the hotel is located |
| StarRating | INT | Official star rating of the hotel |
| TotalRooms | INT | Total number of rooms in the hotel |

**RoomDim**

| **Field Name** | **Data Type** | **Description** |
| --- | --- | --- |
| RoomKey | INT | Primary key identifier for the room |
| RoomID | VARCHAR(20) | Unique identifier in the operational system |
| RoomNumber | VARCHAR(10) | Room number |
| RoomType | VARCHAR(50) | Type of room (standard, suite, etc.) |
| BedType | VARCHAR(50) | Type of bed (king, queen, double, etc.) |
| MaxOccupancy | INT | Maximum number of guests allowed |
| BaseRate | DECIMAL(10,2) | Standard nightly rate |
| IsNonSmoking | BIT | Indicates if the room is non-smoking |
| HotelKey | INT | Foreign key to HotelDim, indicates which hotel the room belongs to |

**EventDim**

| **Field Name** | **Data Type** | **Description** |
| --- | --- | --- |
| EventKey | INT | Primary key identifier for the event |
| EventID | VARCHAR(20) | Unique identifier in the operational system |
| EventName | VARCHAR(100) | Name of the event |
| EventType | VARCHAR(50) | Type of event (conference, wedding, etc.) |
| StartDate | DATE | Event start date |
| EndDate | DATE | Event end date |
| EstimatedAttendees | INT | Estimated number of attendees |

**TimeDim**

| **Field Name** | **Data Type** | **Description** |
| --- | --- | --- |
| TimeKey | INT | Primary key identifier for the time record |
| FullDate | DATE | Complete date |
| DayOfWeek | INT | Numeric day of week (1-7) |
| DayName | VARCHAR(10) | Name of day (Monday, Tuesday, etc.) |
| MonthNumber | INT | Month number (1-12) |
| MonthName | VARCHAR(10) | Name of month (January, February, etc.) |
| Quarter | INT | Calendar quarter (1-4) |
| Year | INT | Calendar year |
| IsHighSeason | BIT | Indicates if the date falls in the high season |