1. **Questions**
2. How many single vs multiple-functions rooms were used last year in each of our resorts?

Answering that question will help us in identifying if we should have more or less of different kinds of rooms. If we noticed that multiple-function rooms were used more than expected, then we need to have more of those as they serve very well as a backup for any emergency situations especially during high-demand seasons where we don’t have enough sleeping rooms or meeting rooms for guests. Accordingly, this will significantly affect our bond with customers in a good way since we can always host them no matter how busy our reservations are, which will avoid them going to any other competitors hotel where they have vacant rooms. However, if we noticed that multiple-function rooms were barely or not used all, then we know we do not need to build more of them in the future buildings/constructions which will improve our budget since they cost more money than normal single-use rooms because of design and foldable items.

1. How many reservations have customers made with each of our resorts for a specific period i.e. last 2 years?

Answering that question will help us in building something like a rewards program/system that will help in both retaining our frequent customers and attracting new customers to be frequent ones by giving them free stays or discounts for their stays. Therefore, those customers would feel more valuable and appreciated to have their business and trust that will even encourage them to invite other people from their connection to try our resorts. That’s, retaining our current customers and attracting new ones to our business.

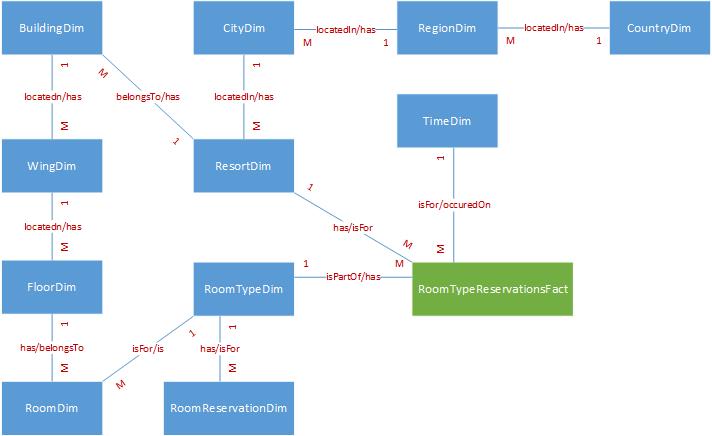
1. How many reservations were made because of events we hosted during a specific period vs another period i.e 2011-2015 vs 2016-2020 at any of our resorts?

Answering that question will help us in knowing how well we are doing with marketing and advertising for our resorts through events. This will also help us in knowing our guests more. For example, if we hosted a musical event, and we noticed it had bigger numbers of reservations than a sports event, this means that we need to focus more on musical events than sports ones. I believe knowing our guests interests are very important to know how to bring them back after their stays.

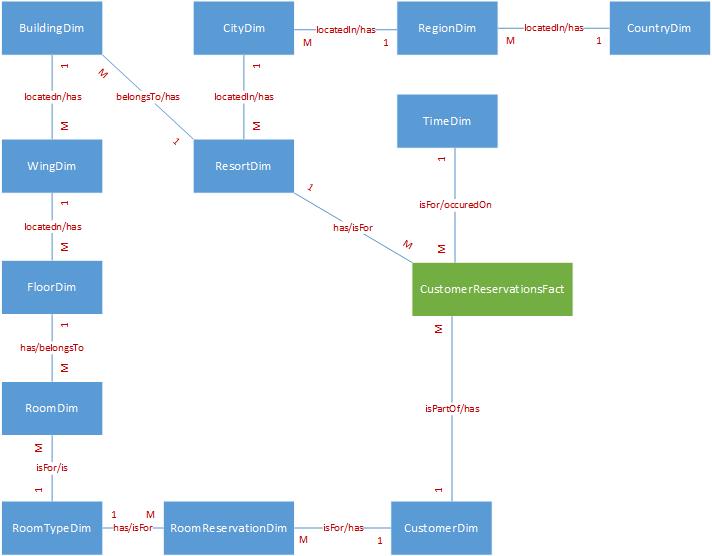
**2. Data Warehouse Snowflake schema**

**a. ER Models**

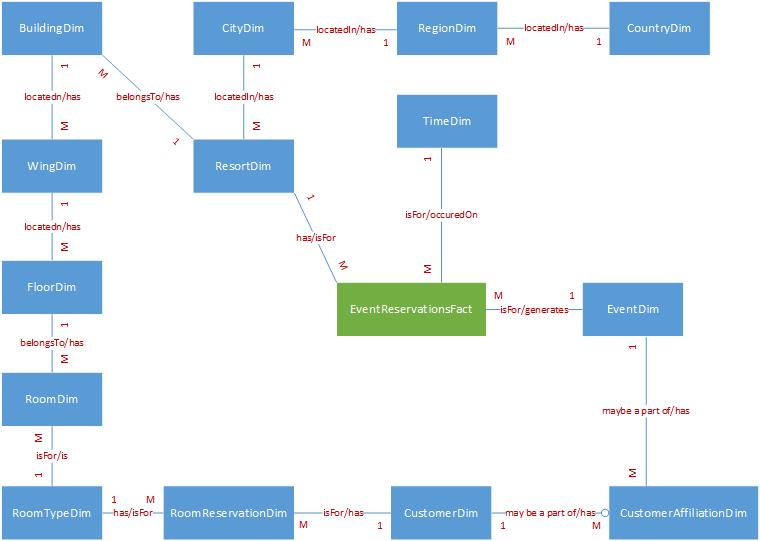
**i. RoomTypeReservationsFact**



**ii. CustomerReservationsFact**



**iii. EventReservationsFact**



**b. Data Dictionary**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Table Name** | **Description** |  |  |  |  |  |
| RoomTypeReservationsFact | This table contains one row for each room type reservation fact. |  |  |  |  |  |
|  |  |  |  |  |  |  |
| **Attribute Name** | **Attribute Description** | **PK** | **Data Type** | **Width** | **Range of Values** | **FK  Table** |
| C\_TimeID\_TR | Contains the foreign key from the TimeDim table. | Y | I | 9 | 0-999,999,999 | TI |
| T\_RoomType\_TR | Contains the foreign key from the RoomTypeDim table. | Y | T | 50 | A-Z | RT |
| C\_ResortID\_TR | Contains the foreign key from the ResortDim table. | Y | I | 9 | 0-999,999,999 | RS |
| N\_TotalNumOfStays\_TR | Contains the total number of stays. | N | N | 4 | 0-9,999 |  |
| N\_TotalPrice\_TR | Contains the total price of all stays. | N | N | 6 | 0-999,999 |  |

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Table Name** | **Description** |  |  |  |  |  |
| CustomerReservationsFact | This table contains one row for each customer reservation fact. |  |  |  |  |  |
|  |  |  |  |  |  |  |
| **Attribute Name** | **Attribute Description** | **PK** | **Data Type** | **Width** | **Range of Values** | **FK  Table** |
| C\_TimeID\_CR | Contains the foreign key from the TimeDim table. | Y | I | 9 | 0-999,999,999 | TI |
| C\_CustomerID\_CR | Contains the foreign key from the CustomerDim table. | Y | I | 9 | 0-999,999,999 | CU |
| C\_ResortID\_CR | Contains the foreign key from the ResortDim table. | Y | I | 9 | 0-999,999,999 | RS |
| N\_TotalNumOfStays\_CR | Contains the total number of stays. | N | N | 4 | 0-9,999 |  |
| N\_TotalPrice\_CR | Contains the total price of all stays. | N | N | 6 | 0-999,999 |  |

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Table Name** | **Description** |  |  |  |  |  |
| EventReservationsFact | This table contains one row for each event reservation fact. |  |  |  |  |  |
|  |  |  |  |  |  |  |
| **Attribute Name** | **Attribute Description** | **PK** | **Data Type** | **Width** | **Range of Values** | **FK  Table** |
| C\_TimeID\_ER | Contains the foreign key from the TimeDim table. | Y | I | 9 | 0-999,999,999 | TI |
| C\_EventID\_ER | Contains the foreign key from the EventDim table. | Y | I | 9 | 0-999,999,999 | EV |
| C\_ResortID\_ER | Contains the foreign key from the ResortDim table. | Y | I | 9 | 0-999,999,999 | RS |
| N\_TotalNumOfStays\_ER | Contains the total number of stays. | N | N | 4 | 0-9,999 |  |
| N\_TotalPrice\_ER | Contains the total price of all stays. | N | N | 6 | 0-999,999 |  |

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Table Name** | **Description** |  |  |  |  |  |
| TimeDim | This table contains one row for each time record. |  |  |  |  |  |
|  |  |  |  |  |  |  |
| **Attribute Name** | **Attribute Description** | **PK** | **Data Type** | **Width** | **Range of Values** | **FK  Table** |
| C\_TimeID\_TI | Contains a unique value for each instance of the TimeDim table. | Y | I | 9 | 0-999,999,999 |  |
| N\_TimeYear\_TI | Contains the year of the record. | N | I | 6 | 0-999,999 |  |
| N\_TimeQuarter\_TI | Contains the quarter of the record. | N | I | 1 | 1-4 |  |
| N\_TimeMonth\_TI | Contains the month of the record. | N | I | 2 | 1-12 |  |
| T\_TimeDay\_TI | Contains the day of the record. | N | T | 50 | A-Z |  |
| D\_ClockTime\_TI | Contains the full clock time. | N | D | 10 | 01-01-1000, 12-31-9999 |  |

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Table Name** | **Description** |  |  |  |  |  |
| RoomDim | This table contains one row for each room record. |  |  |  |  |  |
|  |  |  |  |  |  |  |
| **Attribute Name** | **Attribute Description** | **PK** | **Data Type** | **Width** | **Range of Values** | **FK  Table** |
| C\_RoomNum\_RM | Contains a unique value for each instance of the RoomDim table. | Y | T | 10 | A-Z |  |
| C\_FloorNumber\_RM | Contains the foreign key from the FloorDim table. | Y | I | 9 | 0-999,999,999 | FL |
| C\_WingCode\_RM | Contains the foreign key from the WingDim table. | Y | T | 10 | A-Z | WG |
| C\_RoomType\_RM | Contains the foreign key from the RoomTypeDim table. | N | T | 50 | A-Z | RT |

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Table Name** | **Description** |  |  |  |  |  |
| RoomTypeDim | This table contains one row for each room type record. |  |  |  |  |  |
|  |  |  |  |  |  |  |
| **Attribute Name** | **Attribute Description** | **PK** | **Data Type** | **Width** | **Range of Values** | **FK  Table** |
| C\_RoomType\_RT | Contains a unique value for each instance of the RoomTypeDim table. | Y | T | 50 | A-Z |  |
| N\_RoomPrice\_RT | Contains the price of each room type. | N | N | 6 | 0-999,999 |  |

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Table Name** | **Description** |  |  |  |  |  |
| RoomReservationDim | This table contains one row for each room reservation record. |  |  |  |  |  |
|  |  |  |  |  |  |  |
| **Attribute Name** | **Attribute Description** | **PK** | **Data Type** | **Width** | **Range of Values** | **FK  Table** |
| C\_RoomReservationNum\_RR | Contains a unique value for each instance of the RoomReservationDim table. | Y | T | 50 | A-Z |  |
| C\_CustomerID\_RR | Contains the foreign key from the CustomerDim table | Y | I | 9 | 0-999,999,999 | CU |
| C\_RoomType\_RR | Contains the foreign key from the RoomTypeDim table | Y | T | 50 | A-Z | RT |
| D\_ArrivalDate\_RR | Contains reservation’s arrival date. | N | D | 10 | 01-01-1000, 12-31-9999 |  |
| D\_DepartureDate\_RR | Contains reservation’s departure date. | N | D | 10 | 01-01-1000, 12-31-9999 |  |

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Table Name** | **Description** |  |  |  |  |  |
| FloorDim | This table contains one row for each floor record. |  |  |  |  |  |
|  |  |  |  |  |  |  |
| **Attribute Name** | **Attribute Description** | **PK** | **Data Type** | **Width** | **Range of Values** | **FK  Table** |
| C\_FloorNumber\_FL | Contains a unique value for each instance of the FloorDim table. | Y | I | 9 | 0-999,999,999 |  |
| C\_BuildingID\_FL | Contains the foreign key from the BuildingDim table. | Y | I | 9 | 0-999,999,999 | BU |
| C\_WingCode\_FL | Contains the foreign key from the WingDim table. | Y | T | 10 | A-Z | WG |
| **Table Name** | **Description** |  |  |  |  |  |
| WingDim | This table contains one row for each wing record. |  |  |  |  |  |
|  |  |  |  |  |  |  |
| **Attribute Name** | **Attribute Description** | **PK** | **Data Type** | **Width** | **Range of Values** | **FK  Table** |
| C\_WingCode\_WG | Contains a unique value for each instance of the FloorDim table. | Y | T | 10 | A-Z |  |
| C\_BuildingID\_WG | Contains the foreign key from the BuildingDim table. | Y | I | 9 | 0-999,999,999 | BU |
| T\_WingName\_WG | Contains the name for each wing. | N | T | 50 | A-Z |  |

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Table Name** | **Description** |  |  |  |  |  |
| BuildingDim | This table contains one row for each building record. |  |  |  |  |  |
|  |  |  |  |  |  |  |
| **Attribute Name** | **Attribute Description** | **PK** | **Data Type** | **Width** | **Range of Values** | **FK  Table** |
| C\_BuildingID\_BU | Contains a unique value for each instance of the BuildingDim table. | Y | I | 9 | 0-999,999,999 |  |
| T\_BuildingName\_BU | Contains the name for each building. | N | T | 50 | A-Z |  |
| T\_BuildingDescription\_BU | Contains the description for each building. | N | T | 255 | A-Z |  |
| C\_ResortID\_BU | Contains the foreign key from the ResortDim table. | N | I | 9 | 0-999,999,999 | RS |

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Table Name** | **Description** |  |  |  |  |  |
| ResortDim | This table contains one row for each resort record. |  |  |  |  |  |
|  |  |  |  |  |  |  |
| **Attribute Name** | **Attribute Description** | **PK** | **Data Type** | **Width** | **Range of Values** | **FK  Table** |
| C\_ResortID\_RS | Contains a unique value for each instance of the ResortDim table. | Y | I | 9 | 0-999,999,999 |  |
| T\_ResortName\_RS | Contains resort’s name. | N | T | 50 | A-Z |  |
| T\_StreetAddress\_RS | Contains resort’s street address. | N | T | 255 | A-Z |  |
| C\_CityName\_RS | Contains the foreign key from the CityDim table. | N | T | 50 | A-Z | CI |

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Table Name** | **Description** |  |  |  |  |  |
| CityDim | This table contains one row for each city record. |  |  |  |  |  |
|  |  |  |  |  |  |  |
| **Attribute Name** | **Attribute Description** | **PK** | **Data Type** | **Width** | **Range of Values** | **FK  Table** |
| C\_CityName\_CI | Contains a unique name for each instance of the CityDim table. | Y | T | 50 | A-Z |  |
| C\_ZipCode\_CI | Contains a unique zip code for each instance of the CityDim table. | Y | T | 50 | A-Z |  |
| T\_State\_CI | Contains city’s region. | N | T | 50 | A-Z |  |
| C\_RegionID\_CI | Contains the foreign key from the RegionDim table. | N | I | 9 | 0-999,999,999 | RG |

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Table Name** | **Description** |  |  |  |  |  |
| RegionDim | This table contains one row for each region record. |  |  |  |  |  |
|  |  |  |  |  |  |  |
| **Attribute Name** | **Attribute Description** | **PK** | **Data Type** | **Width** | **Range of Values** | **FK  Table** |
| C\_RegionID\_RG | Contains a unique name for each instance of the RegionDim table. | Y | I | 6 | 0-999,999 |  |
| T\_RegionName\_RG | Contains city’s region. | N | T | 50 | A-Z |  |
| C\_CountryCode\_RG | Contains the foreign key from the CountryDim table. | N | T | 5 | A-Z | CO |

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Table Name** | **Description** |  |  |  |  |  |
| CountryDim | This table contains one row for each country record. |  |  |  |  |  |
|  |  |  |  |  |  |  |
| **Attribute Name** | **Attribute Description** | **PK** | **Data Type** | **Width** | **Range of Values** | **FK  Table** |
| C\_CountryCode\_CO | Contains a unique name for each instance of the CountryDim table. | Y | T | 5 | A-Z |  |
| T\_CountryName\_CO | Contains country’s name. | N | T | 50 | A-Z |  |

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Table Name** | **Description** |  |  |  |  |  |
| EventDim | This table contains one row for each event record. |  |  |  |  |  |
|  |  |  |  |  |  |  |
| **Attribute Name** | **Attribute Description** | **PK** | **Data Type** | **Width** | **Range of Values** | **FK  Table** |
| C\_EventID\_EV | Contains a unique value for each instance of the EventDim table. | Y | I | 9 | 0-999,999,999 |  |
| T\_EventDescription\_EV | Contains event’s description. | N | T | 255 | A-Z |  |
| D\_EventStartDate\_EV | Contains event’s start date. | N | D | 10 | 01-01-1000, 12-31-9999 |  |
| D\_EventEndDate\_EV | Contains event’s end date. | N | D | 10 | 01-01-1000, 12-31-9999 |  |

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Table Name** | **Description** |  |  |  |  |  |
| CustomerDim | This table contains one row for each customer record. |  |  |  |  |  |
|  |  |  |  |  |  |  |
| **Attribute Name** | **Attribute Description** | **PK** | **Data Type** | **Width** | **Range of Values** | **FK  Table** |
| C\_CustomerID\_CU | Contains a unique value for each instance of the CustomerDim table. | Y | I | 9 | 0-999,999,999 |  |
| T\_CustomerFirstName\_CU | Contains customer’s first name. | N | T | 50 | A-Z |  |
| T\_CustomerLastName\_CU | Contains customer’s last name. | N | T | 50 | A-Z |  |
| T\_CustomerMiddleName\_CU | Contains customer’s middle name. | N | T | 50 | A-Z |  |
| T\_CustomerAddress\_CU | Contains customer’s address. | N | T | 255 | A-Z |  |
| I\_CustomerPhoneNumber\_CU | Contains customer’s phone number. | N | T | 50 | A-Z |  |

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Table Name** | **Description** |  |  |  |  |  |
| CustomerAffiliationDim | This table contains one row for each instance of a customer attending an event. |  |  |  |  |  |
|  |  |  |  |  |  |  |
| **Attribute Name** | **Attribute Description** | **PK** | **Data Type** | **Width** | **Range of Values** | **FK  Table** |
| C\_CustomerID\_CA | Contains the foreign key from the CustomerDim table. | Y | I | 9 | 0-999,999,999 | CU |
| C\_EventID\_CA | Contains the foreign key from the EventDim table. | Y | I | 9 | 0-999,999,999 | EV |

1. **MySQL DDL**

*--TimeDim*

**CREATE** **TABLE** TimeDim

(

C\_TimeID\_TI INT **PRIMARY** **KEY**,

N\_TimeYear\_TI INT **NOT** **NULL**,

N\_TimeQuarter\_TI INT **NOT** **NULL**,

N\_TimeMonth\_TI INT **NOT** **NULL**,

T\_TimeDay\_TI VARCHAR(50) **NOT** **NULL**,

D\_ClockTime\_TI DATETIME **NOT** **NULL**

);

*--RoomTypeDim*

**CREATE** **TABLE** RoomTypeDim

(

C\_RoomType\_RT VARCHAR(50) **PRIMARY** **KEY**,

N\_RoomPrice\_RT DECIMAL **NOT** **NULL**

);

*--CountryDim*

**CREATE** **TABLE** CountryDim

(

C\_CountryCode\_CO VARCHAR(5) **PRIMARY** **KEY**,

T\_CountryName\_CO VARCHAR(50) **NOT** **NULL**

);

*--RegionDim*

**CREATE** **TABLE** RegionDim

(

C\_RegionID\_RG INT **PRIMARY** **KEY**,

T\_RegionName\_RG VARCHAR(50) **NOT** **NULL**,

C\_CountryCode\_RG VARCHAR(5) **NOT** **NULL**,

**FOREIGN** **KEY** (C\_CountryCode\_RG) **REFERENCES** CountryDim(C\_CountryCode\_CO)

);

*--CityDim*

**CREATE** **TABLE** CityDim

(

C\_CityName\_CI VARCHAR(50),

C\_ZipCode\_CI VARCHAR(50),

T\_State\_CI VARCHAR(50) **NOT** **NULL**,

C\_RegionID\_CI INT **NOT** **NULL**,

**FOREIGN** **KEY** (C\_RegionID\_CI) **REFERENCES** RegionDim(C\_RegionID\_RG),

**PRIMARY** **KEY**(C\_CityName\_CI, C\_ZipCode\_CI)

);

*--ResortDim*

**CREATE** **TABLE** ResortDim

(

C\_ResortID\_RS INT **PRIMARY** **KEY**,

T\_ResortName\_RS VARCHAR(50) **NOT** **NULL**,

T\_StreetAddress\_RS VARCHAR(255) **NOT** **NULL**,

C\_CityName\_RS VARCHAR(50) **NOT** **NULL**,

**FOREIGN** **KEY** (C\_CityName\_RS) **REFERENCES** CityDim(C\_CityName\_CI)

);

*--BuildingDim*

**CREATE** **TABLE** BuildingDim

(

C\_BuildingID\_BU INT **PRIMARY** **KEY**,

T\_BuildingName\_BU VARCHAR(50) **NOT** **NULL**,

T\_BuildingDescription\_BU VARCHAR(255) **NOT** **NULL**,

C\_ResortID\_BU INT **NOT** **NULL**,

**FOREIGN** **KEY** (C\_ResortID\_BU) **REFERENCES** ResortDim(C\_ResortID\_RS)

);

*--WingDim*

**CREATE** **TABLE** WingDim

(

C\_WingCode\_WG VARCHAR(10) **NOT** **NULL**,

C\_BuildingID\_WG INT **NOT** **NULL**,

T\_WingName\_WG VARCHAR(50) **NOT** **NULL**,

**PRIMARY** **KEY**(C\_WingCode\_WG, C\_BuildingID\_WG)

);

*--FloorDim*

**CREATE** **TABLE** FloorDim

(

C\_FloorNumber\_FL INT **NOT** **NULL**,

C\_BuildingID\_FL INT **NOT** **NULL**,

C\_WingCode\_FL VARCHAR(10) **NOT** **NULL**,

**PRIMARY** **KEY**(C\_FloorNumber\_FL, C\_BuildingID\_FL, C\_WingCode\_FL)

);

*--RoomDim*

**CREATE** **TABLE** RoomDim

(

C\_RoomNum\_RM VARCHAR(10) **NOT** **NULL**,

C\_FloorNumber\_RM INT **NOT** **NULL**,

C\_WingCode\_RM VARCHAR(10) **NOT** **NULL**,

C\_RoomType\_RM VARCHAR(50) **NOT** **NULL**,

**PRIMARY** **KEY**(C\_RoomNum\_RM, C\_FloorNumber\_RM, C\_WingCode\_RM),

**FOREIGN** **KEY** (C\_RoomType\_RM) **REFERENCES** RoomTypeDim(C\_RoomType\_RT)

);

*--EventDim*

**CREATE** **TABLE** EventDim

(

C\_EventID\_EV INT **NOT** **NULL** **PRIMARY** **KEY**,

T\_EventDescription\_EV VARCHAR(255) **NOT** **NULL**,

D\_EventStartDate\_EV DATETIME **NOT** **NULL**,

D\_EventEndDate\_EV DATETIME **NOT** **NULL**

);

*--CustomerDim*

**CREATE** **TABLE** CustomerDim

(

C\_CustomerID\_CU INT **NOT** **NULL** **PRIMARY** **KEY**,

T\_CustomerFirstName\_CU VARCHAR(50) **NOT** **NULL**,

T\_CustomerLastName\_CU VARCHAR(50) **NOT** **NULL**,

T\_CustomerMiddleName\_CU VARCHAR(50),

T\_CustomerAddress\_CU VARCHAR(255),

I\_CustomerPhoneNumber\_CU VARCHAR(50) **NOT** **NULL**

);

*--CustomerAffiliationDim*

**CREATE** **TABLE** CustomerAffiliationDim

(

C\_CustomerID\_CA INT **NOT** **NULL**,

C\_EventID\_CA INT **NOT** **NULL**,

**FOREIGN** **KEY** (C\_CustomerID\_CA) **REFERENCES** CustomerDim(C\_CustomerID\_CU),

**FOREIGN** **KEY** (C\_EventID\_CA) **REFERENCES** EventDim(C\_EventID\_EV),

**PRIMARY** **KEY**(C\_CustomerID\_CA, C\_EventID\_CA)

);

*--RoomTypeReservationsFact*

**CREATE** **TABLE** RoomTypeReservationsFact

(

C\_TimeID\_TR INT **NOT** **NULL**,

T\_RoomType\_TR VARCHAR(50) **NOT** **NULL**,

C\_ResortID\_TR INT **NOT** **NULL**,

N\_TotalNumOfStays\_TR DECIMAL,

N\_TotalPrice\_TR DECIMAL,

**FOREIGN** **KEY** (C\_TimeID\_TR) **REFERENCES** TimeDim(C\_TimeID\_TI),

**FOREIGN** **KEY** (T\_RoomType\_TR) **REFERENCES** RoomTypeDim(C\_RoomType\_RT),

**FOREIGN** **KEY** (C\_ResortID\_TR) **REFERENCES** ResortDim(C\_ResortID\_RS),

**PRIMARY** **KEY**(C\_TimeID\_TR, T\_RoomType\_TR, C\_ResortID\_TR)

);

*--CustomerReservationsFact*

**CREATE** **TABLE** CustomerReservationsFact

(

C\_TimeID\_CR INT **NOT** **NULL**,

C\_CustomerID\_CR INT **NOT** **NULL**,

C\_ResortID\_CR INT **NOT** **NULL**,

N\_TotalNumOfStays\_CR DECIMAL,

N\_TotalPrice\_CR DECIMAL,

**FOREIGN** **KEY** (C\_TimeID\_CR) **REFERENCES** TimeDim(C\_TimeID\_TI),

**FOREIGN** **KEY** (C\_CustomerID\_CR) **REFERENCES** CustomerDim(C\_CustomerID\_CU),

**FOREIGN** **KEY** (C\_ResortID\_CR) **REFERENCES** ResortDim(C\_ResortID\_RS),

**PRIMARY** **KEY**(C\_TimeID\_CR, C\_CustomerID\_CR, C\_ResortID\_CR)

);

*--EventReservationsFact*

**CREATE** **TABLE** EventReservationsFact

(

C\_TimeID\_ER INT **NOT** **NULL**,

C\_EventID\_ER INT **NOT** **NULL**,

C\_ResortID\_ER INT **NOT** **NULL**,

N\_TotalNumOfStays\_ER DECIMAL,

N\_TotalPrice\_ER DECIMAL,

**FOREIGN** **KEY** (C\_TimeID\_ER) **REFERENCES** TimeDim(C\_TimeID\_TI),

**FOREIGN** **KEY** (C\_EventID\_ER) **REFERENCES** EventDim(C\_EventID\_EV),

**FOREIGN** **KEY** (C\_ResortID\_ER) **REFERENCES** ResortDim(C\_ResortID\_RS),

**PRIMARY** **KEY**(C\_TimeID\_ER, C\_EventID\_ER, C\_ResortID\_ER)

);