|  |  |
| --- | --- |
| **Table** | Customer |
| **ER Origin** | Strong Entity Customer |
| **Primary Key** | CID |
| **Foreign Keys** | **N/A** |
| **Uniqueness Constraint** | CID |

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| **Name** | **Type** | **Required?** | **Derived/Stored** | **Origin Entity** | **Origin Rel.** | **Origin Attr.** |
| CID | NUMERIC(6,0) | Yes | Stored | Customer |  | CID |
| Street | VARCHAR(50) | Yes | Stored | Customer |  | PermAddress |
| ZIP | VARCHAR(10) | Yes | Stored | Customer |  | PermAddress |

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| **Table** | CustCity |
| **ER Origin** | Strong Entity Customer |
| **Primary Key** | ZIP |
| **Foreign Keys** | ZIP references Customer.ZIP |
| **Uniqueness Constraint** | ZIP |

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| **Name** | **Type** | **Required?** | **Derived/Stored** | **Origin Entity** | **Origin Rel.** | **Origin Attr.** |
| ZIP | VARCHAR(10) | Yes | Stored | Customer |  | PermAddress |
| City | VARCHAR(20) | Yes | Stored | Customer |  | PermAddress |
| State | CHAR(2) | Yes | Stored | Customer |  | PermAddress |

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| --- | --- |
| **Table** | CustName |
| **ER Origin** | Strong Entity Customer |
| **Primary Key** | CID |
| **Foreign Keys** | CID references Customer.CID |
| **Uniqueness Constraint** | CID |

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| **Name** | **Type** | **Required?** | **Derived/Stored** | **Origin Entity** | **Origin Rel.** | **Origin Attr.** |
| CID | NUMERIC(6,0) | Yes | Stored | Customer |  | PermAddress |
| CName | VARCHAR(30) | Yes | Stored | Customer |  | PermAddress |

|  |  |
| --- | --- |
| **Table** | Room |
| **ER Origin** | Strong Entity Room |
| **Primary Key** | RoomNum |
| **Foreign Keys** | **N/A** |
| **Uniqueness Constraint** | RoomNum |

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| --- | --- | --- | --- | --- | --- | --- |
| **Name** | **Type** | **Required?** | **Derived/Stored** | **Origin Entity** | **Origin Rel.** | **Origin Attr.** |
| RoomNum | NUMERIC(2,0) | Yes | Stored | Room |  | RoomNum |
| RType | VARCHAR(10) | Yes | Stored | Room |  | RType |

|  |  |
| --- | --- |
| **Table** | RoomPop |
| **ER Origin** | Strong Entity Room |
| **Primary Key** | Type |
| **Foreign Keys** | Type references Room.RType |
| **Uniqueness Constraint** | Type |

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| **Name** | **Type** | **Required?** | **Derived/Stored** | **Origin Entity** | **Origin Rel.** | **Origin Attr.** |
| Type | VARCHAR(10) | Yes | Stored | Room |  | RoomType |
| TypePopularity | NUMERIC(3,0) | No | Derived | Room |  | Popularity |

|  |  |
| --- | --- |
| **Table** | RoomPrice |
| **ER Origin** | Strong Entity Room |
| **Primary Key** | Type |
| **Foreign Keys** | Type references Room.RType |
| **Uniqueness Constraint** | Type |

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| **Name** | **Type** | **Required?** | **Derived/Stored** | **Origin Entity** | **Origin Rel.** | **Origin Attr.** |
| Type | VARCHAR(10) | Yes | Stored | Room |  | RoomType |
| TypePrice | NUMERIC(6,2) | Yes | Stored | Room |  | RoomType |

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| --- | --- |
| **Table** | Reservation |
| **ER Origin** | Assoc. En. Reservation |
| **Primary Key** | ResID |
| **Foreign Keys** | CID references Customer.CID,  RID references Room.RoomNum |
| **Uniqueness Constraint** | ResID |

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| **Name** | **Type** | **Required?** | **Derived/Stored** | **Origin Entity** | **Origin Rel.** | **Origin Attr.** |
| ResID | NUMERIC(5,0) | Yes | Stored | Reservation |  | ResID |
| CID | NUMERIC(6,0) | Yes | Stored | Customer | Makes | CID |
| RID | NUMERIC(2,0) | Yes | Stored | Room | Contains | RoomNum |

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| --- | --- |
| **Table** | ResDate |
| **ER Origin** | Assoc. En. Reservation |
| **Primary Key** | ResID |
| **Foreign Keys** | ResID references Reservation.ResID |
| **Uniqueness Constraint** | ResID |

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| **Name** | **Type** | **Required?** | **Derived/Stored** | **Origin Entity** | **Origin Rel.** | **Origin Attr.** |
| ResID | NUMERIC(5,0) | Yes | Stored | Reservation |  | ResID |
| CheckInDate | DATE DEFAULT CURRENT | Yes | Stored | Reservation |  | ResStay |
| CheckOutDate | DATE DEFAULT CURRENT | Yes | Stored | Reservation |  | ResStay |

|  |  |
| --- | --- |
| **Table** | ResBill |
| **ER Origin** | Assoc. En. Reservation |
| **Primary Key** | CheckInDate , CheckOutDate |
| **Foreign Keys** | CheckInDate references ResDate.CheckInDate,  CheckOutDate references ResDate.CheckOutDate |
| **Uniqueness Constraint** | CheckInDate , CheckOutDate |

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| **Name** | **Type** | **Required?** | **Derived/Stored** | **Origin Entity** | **Origin Rel.** | **Origin Attr.** |
| CheckInDate | DATE DEF. CURRENT | Yes | Stored | Reservation |  | ResStay |
| CheckOutDate | DATE DEF. CURRENT | Yes | Stored | Reservation |  | ResStay |
| DaysIn | NUMERIC(3,0) | Yes | Derived | Reservation |  | CheckInDate, CheckOutDate |
| BillAmt | NUMERIC(6,2) | Yes | Derived | Reservation |  | DaysIn, RPrice |