# Database design

## List of Tables

* Hotel
* Room
* Guest
* Reservation
* Staff

Table: Hotel

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Column | Data Type | Null | Keys & Constrains | Default Value & Description |
| HotelID | int | Not null | PK (Auto Increment) |  |
| Name | Varchar(20) | Not null |  |  |
| Address | Varchar(255) | Not null |  |  |
| Email | Varchar(20) | Not null |  |  |
| ContactNo | Varchar(20) | Not null |  |  |

Table: Room

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Column | Data Type | Null | Keys & Constrains | Default Value & Description |
| Room\_ID | int | Not null | PK (Auto Increment) |  |
| HotelID | int | Not null | FK | Reference of Hotel Table |
| RoomType | Varchar(20) | Not null |  |  |
| Price | DECIMAL(10, 2) | Not null |  |  |
| AvailabilityStatus | Varchar(20) | Not null |  |  |
| RoomNumber | int | Not null |  |  |

Table: Guest

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Column | Data Type | Null | Keys & Constrains | Default Value & Description |
| GuestID | int | Not null | PK (Auto Increment) |  |
| Name | varchar(20) | Not null |  |  |
| ContactNo | Varchar(20) | Not null |  |  |
| Email | varchar(20) | Not null |  |  |
| Age | int | Not null |  |  |
| Gender | Varchar(10) | Not null |  |  |
| Address | Varchar(255) | Not null |  |  |

Table: Reservation

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Column | Data Type | Null | Keys & Constrains | Default Value & Description |
| ReservationID | int | Not null | PK (Auto Increment) |  |
| GuestID | int | Not null | FK | Reference of Guest Table |
| RoomID | int | Not null | FK | Reference of room Table |
| ReservationStatus | Varchar(20) | Not null |  |  |
| CheckInDate | date | Not null |  |  |
| CheckOutDate | date | Not null |  |  |

Table: Staff

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Column | Data Type | Null | Keys & Constrains | Default Value & Description |
| StaffID | int | Not null | PK (Auto Increment) |  |
| HotelID | int | Not null | FK | Reference of Hotel Table |
| Name | Varchar(20) | Not null |  |  |
| Position | Varchar(20) | Not null |  |  |
| ContactNo | Varchar(20) | Not null |  |  |
| Address | Varchar(255) | Not null |  |  |
| Email | Varchar(20) | Not null |  |  |
| Age | Int | Not null |  |  |
| Gender | Varchar(10) | Not null |  |  |