**Online Hotel Database**

CPIT-340 Project

****

**Provided For:**

Dr. Mutasem Mohammed Jarrah

**Provided By:**

Ahmed Sultan Asiri – 1636836

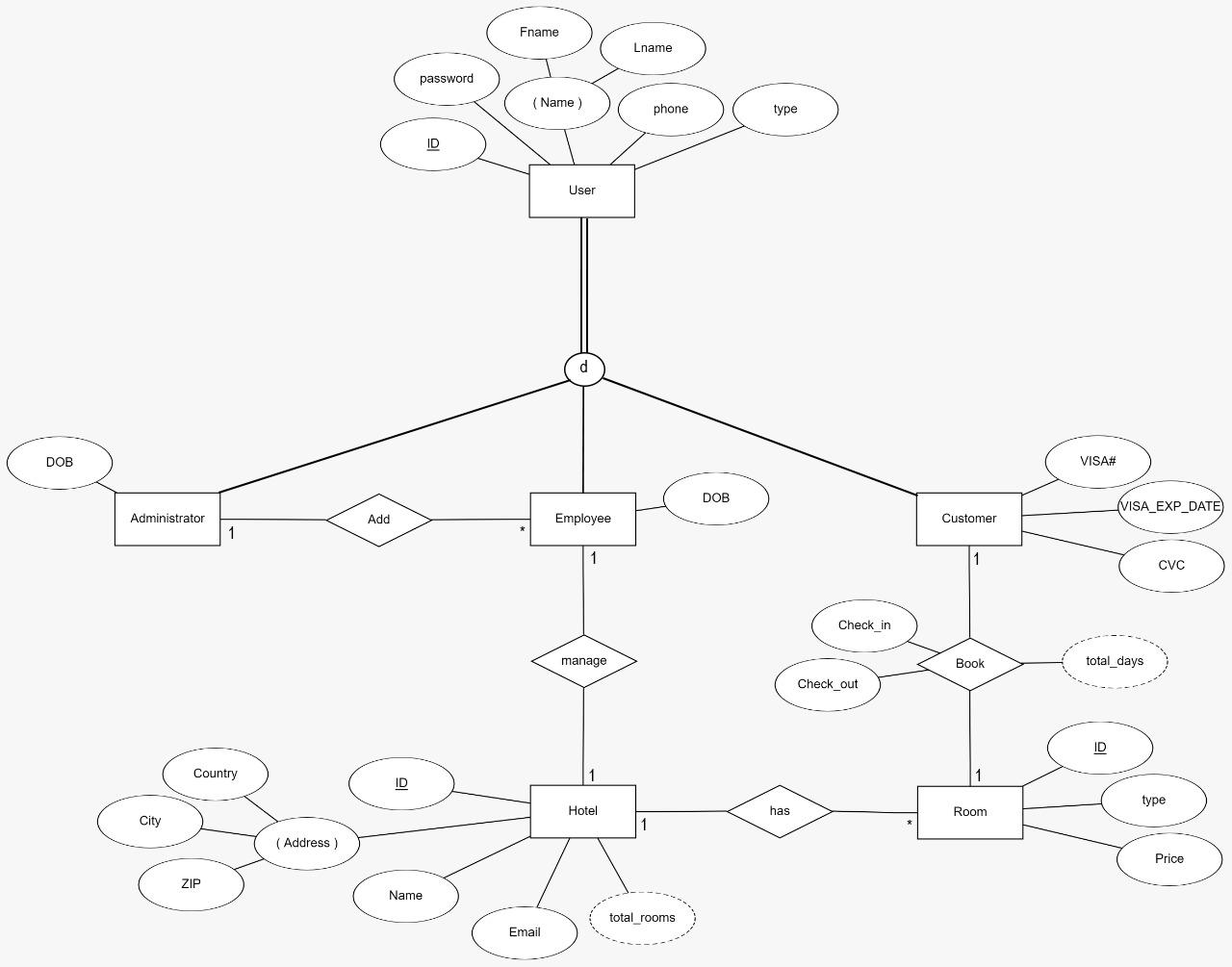
**Scenario**

it’s online hotel database, to provide the user the easiest way to choose among hotels based on the country, city and the date dimensions for check-in and check-out dates, when he performs the search all the hotels that have available rooms in the user defined date will be visible.

**The database scenario description:**

* All the users need to have account, and based on the account type they can view data belong to them, USERS have unique ID, first name, last name, password, phone, type.
* The customer needs to register to have an account, Customer have VISA#, VISA\_exp\_date, VISA\_CVC.
* The Employee responsible for only one hotel to manage, employee have DOB.
* The Administrator can add and delete employees, Administrator have DOB.
* The customer can book many rooms as he wants and the room can be booked by one customer at a date dimension with #days, room have unique ID, type describe if it’s single, double or suite and price per day.
* The hotel has many rooms, hotel have unique ID, name, email, address (country, city and ZIP), #rooms.
* The rooms belong to only one hotel.
* The hotel has only one employee that responsible for all the booked rooms.

**Enhanced-ERD**

****

**Schema**

**USERS**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| ID | Fname | Lname | Password | Phone | Type |

**CUSTOMER**

|  |  |  |  |
| --- | --- | --- | --- |
| CID | Fname | Lname | Password |

**ADMINISTRATOR**

|  |  |
| --- | --- |
| AID | DOB |

**EMPLOYEE**

|  |  |
| --- | --- |
| EID | DOB |

**HOTEL**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| HID | Name | Email | Country | City | ZIP |

**ROOM**

|  |  |  |  |
| --- | --- | --- | --- |
| RID | Type | Price | Hotel\_ID |

**BOOK**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| BID | Customer\_ID | Hotel\_ID | Room\_ID | Check\_in | Check\_out |

**Create Tables**

**HOTEL**

create table hotel(id int primary key, name varchar2(50), email varchar2(50),

country varchar2(20), city varchar2(20), zip int, total\_rooms int);

**ROOM**

create table room(id int, type varchar2(10), price float, hotel\_id int,

foreign key (hotel\_id) references hotel(id), primary key(id, hotel\_id));

**USERS**

create table users(id int primary key, fname varchar2(20), lname varchar2(20),

password varchar2(20), phone varchar2(15), type varchar2(20));

**CUSTOMER**

create table customer(id int primary key, visa\_number int, visa\_exp\_date date,

cvc int, foreign key (id) references users(id));

**EMPLOYEE**

create table employee(id int primary key, dob date, admin\_id int, hotel\_id int,

foreign key (admin\_id) references administrator(id), foreign key (hotel\_id) references hotel(id),

foreign key (id) references users(id));

**AMINISTRATOR**

create table administrator(id int primary key, dob date,

foreign key (id) references users(id));

**BOOK**

create table book(id int, customer\_id int, room\_id int, hotel\_id int,

check\_in date, check\_out date, total\_days int, total\_price float,

foreign key (customer\_id) references customer(id),

foreign key (room\_id, hotel\_id) references room(id,hotel\_id),

primary key(id, customer\_id, room\_id, hotel\_id));

**Insert into Tables**

**HOTEL**

insert into hotel values(4865, 'Irbid Plaza', 'IrbidPlaza@gmail.com',

'Jordan', 'Irbid', 22699, 0);

insert into hotel values(9879, 'Al Joude Hotel', 'Al-Joude@gmail.com',

'Jordan', 'Irbid', 22987, 0);

insert into hotel values(2323, 'Seven Days Hotel', '7Days@gmail.com',

'Jordan', 'Irbid', 22984, 0);

**ROOM**

insert into room values(309, 'Suite', 340, 2323);

**USERS**

insert into users values(000598, 'Mutasem', 'Jarrah', '123456789', '0545454545', 'Administrator');

insert into users values(1746954, 'Mostafa', 'Ramadan', '232323', '054848484', 'Customer');

insert into users values(1636836, 'Ahmed', 'Asiri', '123456', '0562109709', 'Customer');

**ADMINISTRATOR**

Insert into administrator values(598, sysdate – 15000);

**CUSTOMER**

Insert into customer values(1636836, 48498757, ‘13-MAR-20’, 255);

**EMPLOYEE**

Insert into employee values(588784, sysdate – 10000, 000598, 1111);

**BOOK**

Insert into book values(87647988, 1746954, 105,1111, sysdate+7, sysdate+15, 0, 0);