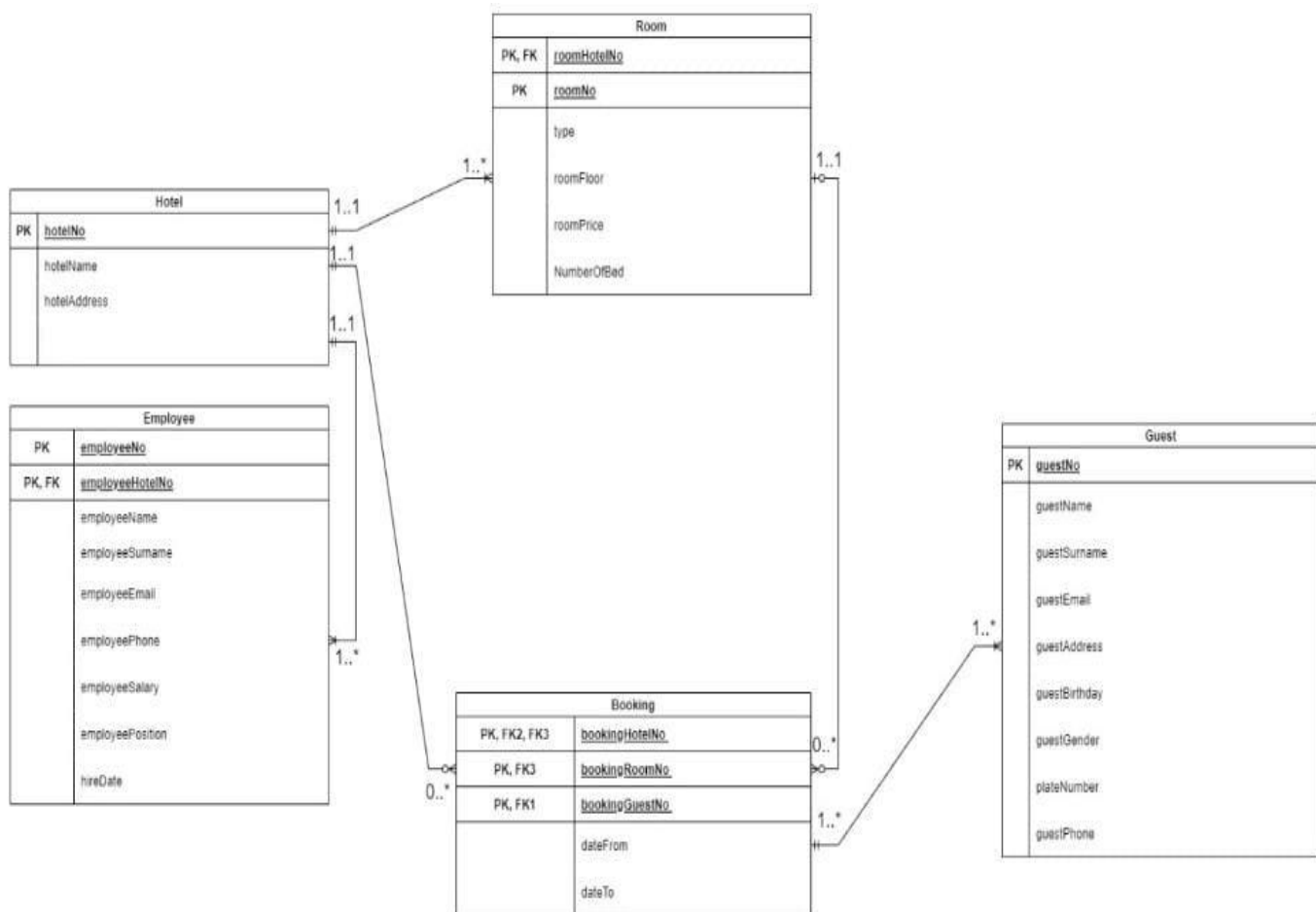


A LIST OF DATA:

- HotelNo
- HotelName
- HotelAddress
- HotelPhone
- GuestNo
- GuestName
- GuestSurname
- GuestEmail
- GuestAddress
- GuestPhone
- GuestBirthday
- AnniversaryDate
- GuestGender
- PlateNumber
- RoomHotelNo
- RoomType
- RoomNo
- RoomFloor
- RoomPrice
- NumberOfBed
- EmployeeHotelNo
- EmployeeName
- EmployeeSurname
- EmployeeEmail
- EmployeePhone
- EmployeeSalary
- EmployeePosition
- HireDate
- BookingHotelNo
- BookingRoomNo

- BookingGuestNo
- Rate
- DateFrom
- DateTo

ER DIAGRAM:



CREATING TABLES:

```

CREATE TABLE `UNF_Table` (`HotelNo` int(1), `HotelName` varchar(13), `HotelAddress` varchar(8),
`HotelPhone` int(7), `GuestNo` int(1), `GuestName` varchar(12), `GuestSurname` varchar(6),
`GuestEmail` varchar(18), `GuestAddress` varchar(6), `GuestBirthday` date, `AnniversaryDate` date,
`GuestGender` varchar(1), `GuestPhone` bigint(10), `GuestPlateNumber` varchar(7), `RoomHotelNo`
  
```

```
int(1),`RoomNo` int(1), `RoomType` varchar(8), `RoomFloor` int(1), `RoomPrice` int(3),  
`NumberOfBed`  
int(1), `EmployeeHotelNo` int(1), `EmployeeNo` int(1), `EmployeeName` varchar(6),  
`EmployeeSurname` varchar(8), `EmployeeEmail` varchar(18), `EmployeePhone` bigint(10),  
`EmployeeSalary` int(5), `EmployeePosition` varchar(11), `HireDate` date, `BookingHotelNo`  
int(1), `BookingRoomNo` int(1), `BookingGuestNo` int(1), `Rate` int(1), `DateFrom` date, `DateTo`  
date);
```

```
CREATE TABLE Hotel(  
hotelNo INT NOT NULL,  
hotelName VARCHAR(50) NOT NULL,  
hotelAddress VARCHAR(50) NOT NULL,  
hotelPhone BIGINT NOT NULL);
```

```
ALTER TABLE Hotel  
ADD PRIMARY KEY(hotelNo);
```

```
CREATE TABLE Employee(  
employeeNo INT NOT NULL,  
employeeHotelNo INT NOT NULL,  
employeeName VARCHAR(50) NOT NULL,  
employeeSurname VARCHAR(50) NOT NULL,  
employeeEmail VARCHAR(50) NOT NULL,  
employeePhone BIGINT NOT NULL,  
employeeSalary INT NOT NULL,  
employeePosition VARCHAR(50) NOT NULL,  
hireDate DATE NOT NULL,  
FOREIGN KEY (employeeHotelNo) REFERENCES Hotel(hotelNo));
```

```
ALTER TABLE Employee  
ADD PRIMARY KEY (employeeNo,employeeHotelNo);
```

```
CREATE TABLE Room(  
roomHotelNo INT NOT NULL,  
roomNo INT NOT NULL,  
type VARCHAR(50) NOT NULL,  
roomFloor INT NOT NULL,  
roomPrice INT NOT NULL,  
NumberOfBed INT NOT NULL,  
FOREIGN KEY(roomhotelNo) REFERENCES Hotel(hotelNo)  
);  
ALTER TABLE Room  
ADD PRIMARY KEY(roomHotelNo,roomNo);
```

```
CREATE TABLE Guest(  
guestNo INT NOT NULL,  
guestName VARCHAR(50) NOT NULL,  
guestSurname VARCHAR(50) NOT NULL,  
guestEmail VARCHAR(50) NOT NULL,  
guestAddress VARCHAR(50) NOT NULL,  
guestBirthday DATE NOT NULL,  
AnniversaryDate DATE,  
guestGender VARCHAR(5) NOT NULL,  
plateNumber VARCHAR(50) NOT NULL,
```

```
guestPhone BIGINT NOT NULL);
```

```
ALTER TABLE Guest
```

```
ADD PRIMARY KEY(guestNo);
```

```
CREATE TABLE Booking(
```

```
bookingHotelNo INT NOT NULL,
```

```
bookingRoomNo INT NOT NULL,
```

```
bookingGuestNo INT NOT NULL,
```

```
Rate INT,
```

```
dateFrom DATE NOT NULL,
```

```
dateTo DATE NOT NULL,
```

```
FOREIGN KEY (bookingGuestNo) REFERENCES Guest(guestNo),
```

```
FOREIGN KEY (bookingHotelNo) REFERENCES Hotel(hotelNo),
```

```
FOREIGN KEY (bookingHotelNo, bookingRoomNo) REFERENCES Room(roomHotelNo,roomNo));
```

```
ALTER TABLE Booking
```

```
ADD PRIMARY KEY (bookingHotelNo,bookingRoomNo,bookingGuestNo);
```

INSERTING DATA:

```
INSERT INTO `UNF_Table` (`HotelNo`, `HotelName`, `HotelAddress`, `HotelPhone`, `GuestNo`,  
`GuestName`, `GuestSurname`, `GuestEmail`, `GuestAddress`, `GuestBirthday`, `AnniversaryDate`,  
`GuestGender`,  
`GuestPhone`, `GuestPlateNumber`, `RoomHotelNo`, `RoomNo`, `RoomType`, `RoomFloor`,  
`RoomPrice`, `NumberOfBed`, `EmployeeHotelNo`, `EmployeeNo`, `EmployeeName`,  
`EmployeeSurname`, `EmployeeEmail`, `EmployeePhone`, `EmployeeSalary`, `EmployeePosition`,  
`HireDate`, `BookingHotelNo`, `BookingRoomNo`, `BookingGuestNo`, `Rate`, `DateFrom`, `DateTo`)  
VALUES
```

```
(1, 'Pera Palace', 'Istanbul', 2423434, 1, 'Alim Kadir', 'Kara', 'alim@hotmail.com', 'Turkey', '2001-10-  
23', 'M', 5311234567, '34FB12', 1, 1, 'Family', 1, 100, 4, 1, 1, 'Ali', 'Veli', 'aliveli@gmail.com',
```

5303474592, 6000, 'Manager', '2020-10-05', 1, 1, 1, 5, '2022-08-08', '2022-08-18'),

(1, 'Pera Palace', 'Istanbul', 2423434, 2, 'Hakan', 'Yavaş', 'hakan@hotmail.com', 'Turkey', '1968-08-12', '12.07.2000', 'M', 5439872682, NULL, 1, 2, 'Business', 5, 400, 2, 1, 2, 'Ahmet', 'Mehmet', 'mehahm@hotmail.com', 5363869951, 10000, 'Personel', '2018-07-01', 1, 2, 2, 4, '2020-03-03', '2020-03-15'),

(2, 'Kordon Hotel', 'İzmir', 2423535, 3, 'Enes', 'Kara', 'enes@hotmail.com', 'Turkey', '1995-05-23', '11.12.2020', 'M', 5363892674, '22OGP33', 2, 3, 'Family', 3, 100, 4, 2, 1, 'İlker', 'Kaldıraç', 'aliveli@gmail.com', 5303474592, 6000, 'Security', '2020-10-05', 2, 3, 3, 3, '2021-11-02', '2021-11-04'),

(2, 'Kordon Hotel', 'İzmir', 2423535, 4, 'Ahmet Gorkem', 'Durum', 'ahmet@hotmail.com', 'Turkey', '2001-01-03', 'M', 5437361234, '81P33', 2, 4, 'Business', 2, 300, 2, 2, 3, 'Şinasi', 'Patlak', 'mehahm@hotmail.com', 5363869951, 10000, 'Manager', '2018-07-01', 2, 4, 4, 7, '2022-03-19', '2022-03-23'),

(3, 'Kadıkoy Hotel', 'Istanbul', 2423434, 5, 'Anıl Can', 'Kara', 'anil@hotmail.com', 'Turkey', '1940-10-20', 'M', 5313131693, '37GK93', 3, 5, 'Family', 4, 200, 4, 3, 2, 'Kenan', 'Karaman', 'aliveli@gmail.com', 5303474592, 6000, 'Housekeeper', '2020-10-05', 3, 5, 5, 8, '2022-04-26', '2022-04-28'),

(3, 'Kadıkoy Hotel', 'Istanbul', 2423434, 6, 'Emre', 'Semiz', 'emre@hotmail.com', 'Turkey', '2005-10-23', 'M', 5439872682, NULL, 3, 6, 'Business', 2, 300, 2, 3, 4, 'Burak', 'Yılmaz', 'mehahm@hotmail.com', 5363869951, 10000, 'Cleaner', '2018-07-01', 3, 6, 6, 6, '2022-01-01', '2022-01-11'),

(4, 'Hilton Hotel', 'Antalya', 2131231, 7, 'Mahmut', 'Yavaş', 'maho@hotmail.com', 'Turkey', '2000-02-29', 'M', 5311234567, '34FB12', 4, 7, 'Family', 1, 100, 4, 4, 2, 'Omer', 'Bayram', 'aliveli@gmail.com', 5303474592, 60000, 'CEO', '2020-10-05', 4, 7, 7, 2, '2021-07-07', '2021-07-09'),

(4, 'Hilton Hotel', 'Antalya', 2131231, 8, 'Serdar', 'Balçın', 'serdar@hotmail.com', 'Turkey', '1993-01-23', '13.02.2013', 'M', 5313231312, '71VF07', 4, 8, 'Business', 3, 300, 1, 4, 7, 'Cnegiz', 'Kırkayak', 'cengiz@hotmail.com', 5341413413, 12500, 'Chef', '2019-07-01', 4, 8, 8, 3, '2019-05-19', '2019-05-28');

INSERT INTO guest

SELECT DISTINCT GuestNo, GuestName, GuestSurname, GuestEmail, GuestAddress,
GuestBirthday, AnniversaryDate, GuestGender, GuestPlateNumber, GuestPhone
FROM unf_table

```
INSERT INTO booking
```

```
SELECT DISTINCT bookingHotelNo, bookingRoomNo, bookingGuestNo, Rate, dateFrom, dateTo  
FROM unf_table
```

```
INSERT INTO room
```

```
SELECT DISTINCT roomHotelNo, roomNo, roomType, roomFloor, roomPrice, NumberOfBed  
FROM unf_table
```

```
INSERT INTO hotel
```

```
SELECT DISTINCT hotelNo, hotelName, hotelAddress, hotelPhone  
FROM unf_table
```

```
INSERT INTO employee
```

```
SELECT DISTINCT employeeNo, employeeHotelNo, employeeName, employeeSurname,  
employeeEmail, employeePhone, employeeSalary, employeePosition, hireDate  
FROM unf_table
```

DELETING COLUMNS FROM UNF TABLE AFTER CREATE TABLES AND INSERT DATA:

AFTER HOTEL TABLE:

```
ALTER TABLE UNF_Table
```

```
DROP COLUMN hotelNo,hotelName,hotelAddress,hotelPhone;
```

AFTER EMPLOYEE TABLE:

ALTER TABLE UNF_Table

DROP COLUMN

employeeNo,employeeHotelNo,employeeName,employeeSurname,employeeEmail,employeePhone,
employeeSalary,employeePosition,hireDate;

AFTER ROOM TABLE:

ALTER TABLE UNF_Table

DROP COLUMN roomHotelNo,roomNo,type,roomFloor ,roomPrice,NumberOfBed;

AFTER GUEST TABLE:

ALTER TABLE UNF_Table

DROP COLUMN

guestNo,guestName,guestSurname,guestEmail,guestAddress,guestBirthday,AnniversaryDate,
guestGender,plateNumber,guestPhone;

AFTER BOOKING TABLE:

ALTER TABLE UNF_Table

DROP COLUMN bookingHotelNo,bookingRoomNo,bookingGuestNo,Rate,dateFrom,dateTo;

INTERFACE:

Hotel Name

Date FromDate To

LIST ALL CUSTOMERS

Guest No	Guest Name	Guest Surname	Guest Email	Guest Address	Guest Birthday	Anniversary D.	Guest Gender	Plate Number	Guest Phone
7	Alim Kadir	Kara	alim@live.com	Antalya	23.10.2001	null	M	null	532 42 42

LIST ALL ROOMS

Room No	Type	Room Floor	Room Price	Number of Bed	Number of Bookings
1	Single	1	\$100	1	48
2	Double	1	\$150	2	27
3	Family	1	\$200	4	12
4	Family	1	\$300	4	7

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CHANGE THE DATE

ADD A NEW GUEST

REMOVE A BOOKING

Hotel No

Room No

Guest No

Date From

CHANGE

Date To

CHANGE

←

→

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CHANGE THE DATE

ADD A NEW GUEST

REMOVE A BOOKING

Guest No

Guest Name

Guest Surname

Guest Email

Guest Birthday

Anniversary D.

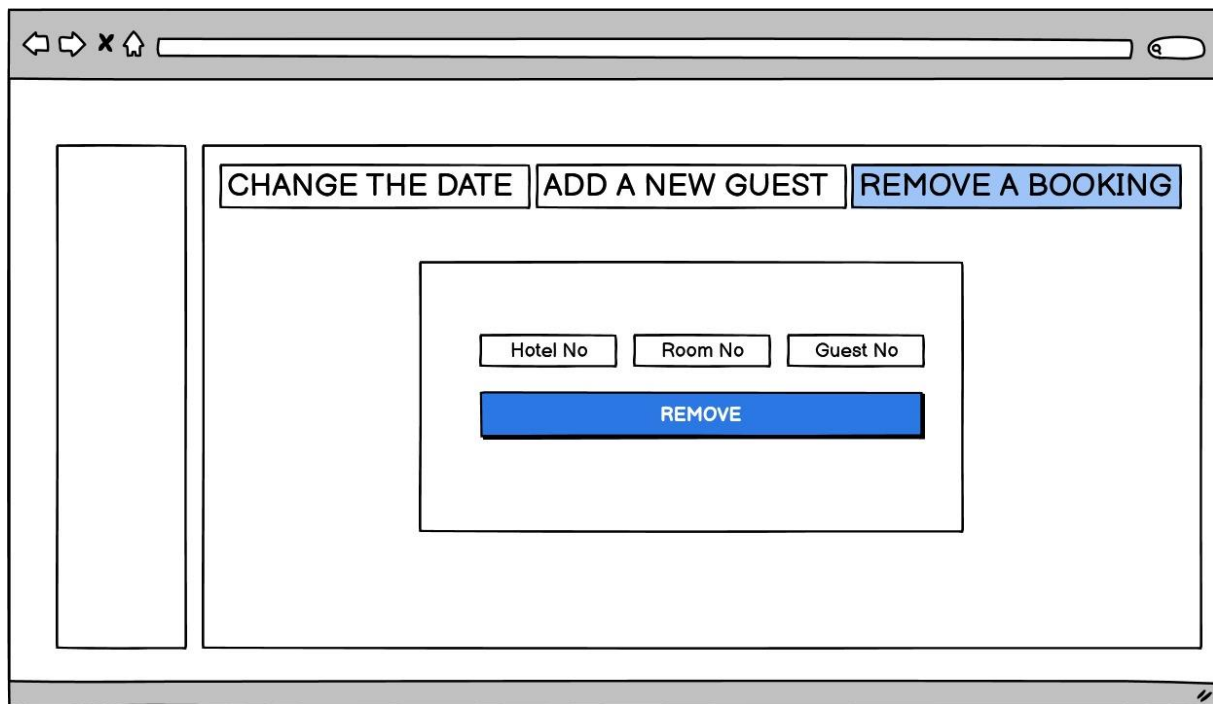
Guest Address

Guest Gender

Plate Number

Guest Phone

ADD



SQL QUERIES FOR INTERFACE:

1-

```
SELECT g.guestName ,g.surname
```

```
FROM Guest g,Booking b,Hotel h
```

```
WHERE "wanted date" BETWEEN b.dateTo AND b.dateFrom b.bookingHotelNo =h."hotelNo of the  
hotel wanted" AND b.bookingGuestNo=g.guestNo
```

2-

```
SELECT r.roomHotelNo,r.roomNo,r.type, r.roomFloor,r.roomPrice,r.NumberOfBed, COUNT(b.*)
```

```
FROM Room r ,Booking b
```

```
WHERE r.roomNo=b.bookingRoomNo
```

```
GROUP BY roomNo
```

3-

```
UPDATE Booking
```

```
SET dateFrom="Which date user want"
```

WHERE bookingHotelNo="HotelNo of the reservation wanted to change" AND
bookingGuestNo="GuestNo of the reservation wanted to change" AND dateTO = "Ending date of the
reservation wanted to update"

4-

INSERT INTO Guest

VALUES (15 , 'ali', 'emir','aliemir@mail.com','Aydın','1995-02-08, M, 09A09 ,05451234567)

5-

DELETE

FROM Booking

WHERE bookingHotelNo="HotelNo of the reservation wanted to delete" AND
bookingGuestNo="GuestNo of the reservation wanted to delete" AND dateFrom = "Starting date of
the reservation wanted to delete"

CREATING VIEW FOR AVERAGE RATINGS OF HOTELS:

CREATE VIEW averageRating AS

SELECT h.hotelName, AVG(b.rate)

FROM booking b, hotel h

WHERE h.hotelNo=b.hotelNo

GROUP BY h.hotelName