A LIST OF DATA:

HotelNo

HotelName

HotelAddress

HotelPhone

GuestNo

GuestName

GuestSurname

GuestEmail

GuestAddress

GuestPhone

GuestBirthday

GuestGender

PlateNumber

RoomHotelNo

RoomType

RoomNo

RoomFloor

RoomPrice

NumberOfBed

EmployeeHotelNo

EmployeeName

EmployeeSurname

EmployeeEmail

EmployeePhone

EmployeeSalary
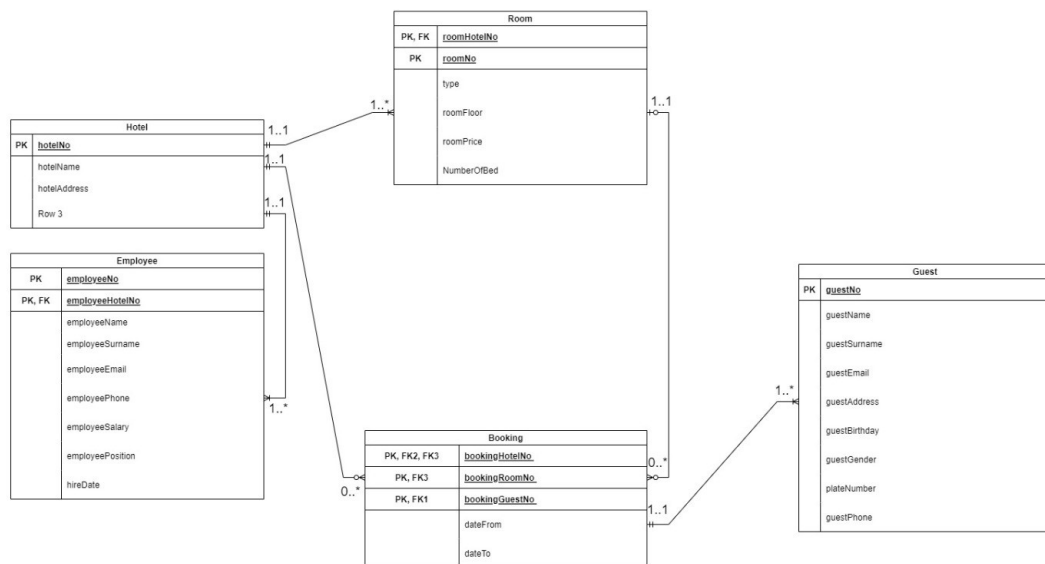
EmployeePosition

HireDate

BookingHotelNo

BookingRoomNo

BookingGuestNo

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` varchar(10), `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` varchar(10), `BookingHotelNo` int(1), `BookingRoomNo` int(1), `BookingGuestNo` int(1), `DateFrom` varchar(10), `DateTo` varchar(10));

CREATE TABLE Hotel(

```sql
        hotelNo INT NOT NULL,

        hotelName VARCHAR(50) NOT NULL,

        hotelAddress VARCHAR(50) NOT NULL,

        hotelPhone BIGINT NOT NULL,

        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,

        PRIMARY KEY (employeeNo,employeeHotelNo),

        FOREIGN KEY (employeeHotelNo) REFERENCES Hotel(hotelNo)
);


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,

        PRIMARY KEY(roomHotelNo,roomNo),

        FOREIGN KEY(roomhotelNo) REFERENCES Hotel(hotelNo)
);
```

```sql
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,

        guestGender VARCHAR(5) NOT NULL,

        plateNumber VARCHAR(50) NOT NULL,

        guestPhone BIGINT NOT NULL,

        PRIMARY KEY(guestNo)

);


CREATE TABLE Booking(

        bookingHotelNo INT NOT NULL,

        bookingRoomNo INT NOT NULL,

        bookingGuestNo INT NOT NULL,

        dateFrom DATE NOT NULL,

        dateTo DATE NOT NULL,

        PRIMARY KEY (bookingHotelNo,bookingRoomNo,bookingGuestNo),

        FOREIGN KEY (bookingGuestNo) REFERENCES Guest(guestNo),

        FOREIGN KEY (bookingHotelNo) REFERENCES Hotel(hotelNo),

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

);
```

INSERTING DATA:

```sql
INSERT INTO `UNF_Table` (`HotelNo`, `HotelName`, `HotelAddress`, `HotelPhone`, `GuestNo`,
`GuestName`, `GuestSurname`, `GuestEmail`, `GuestAddress`, `GuestBirthday`, `GuestGender`,
`GuestPhone`, `GuestPlateNumber`, `RoomHotelNo`, `RoomNo`, `RoomType`, `RoomFloor`,
`RoomPrice`, `NumberOfBed`, `EmployeeHotelNo`, `EmployeeNo`, `EmployeeName`,
`EmployeeSurname`, `EmployeeEmail`, `EmployeePhone`, `EmployeeSalary`, `EmployeePosition`,
`HireDate`, `BookingHotelNo`, `BookingRoomNo`, `BookingGuestNo`, `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, '2022-08-08', '2022-08-18'),

 (1, 'Pera Palace', 'Istanbul', 2423434, 2, 'Hakan', 'Yavaş', 'hakan@hotmail.com', 'Turkey', '1968-08-12', '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, '2020-03-03', '2020-03-15'),

 (2, 'Kordon Hotel', 'İzmir', 2423535, 3, 'Enes', 'Kara', 'enes@hotmail.com', 'Turkey', '1995-05-23', '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, '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, '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, '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, '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, '2021-07-07', '2021-07-09'),

 (4, 'Hilton Hotel', 'Antalya', 2131231, 8, 'Serdar', 'Balçın', 'serdar@hotmail.com', 'Turkey', '1993-01-23', '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, '2019-05-19', '2019-05-28');

INSERT INTO guest

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

    FROM unf_table

INSERT INTO booking

    SELECT DISTINCT bookingHotelNo, bookingRoomNo, bookingGuestNo, 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


CREATING VIEW:

CREATE VIEW MergedTable AS

SELECT h.*, g.*, r.*, e.*, b.*

FROM hotel h, guest g, room r, employee e, booking b

WHERE

        r.roomHotelNo = h.hotelNo AND

        b.bookingGuestNo = g.guestNo AND

        b.bookingHotelNo = h.hotelNo AND

   b.bookingRoomNo = r.roomNo AND

   e.employeeHotelNo = h.hotelNo

;
```