

Hotel Management System

DBMS Innovative Assignment
(Phase-1)

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FUNCTIONAL REQUIREMENTS

- 1) The database should save all information about every hotel, employee, customer, and owner.
- 2) It should define a clear and precise relationship between hotels and their employees, owners, and customers
- 3) There should be a clear relationship present between each entity under consideration.
- 4) It should provide an easy user interface to customers as well as employees.

5) It should automatically update itself upon new billings.

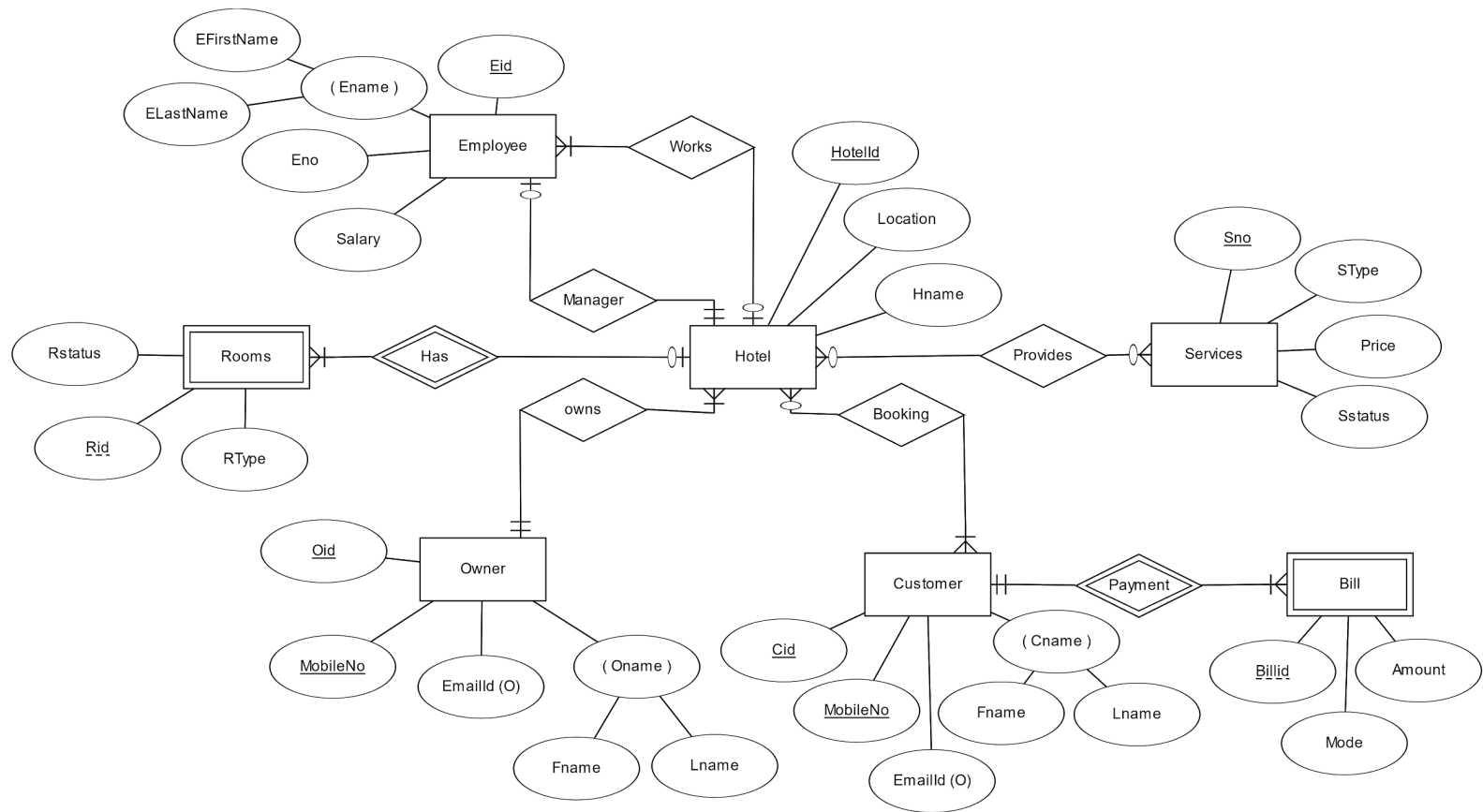
6) It should go with cash as well as cashless modes of payment.

7) Proper constraints should be dealt with.

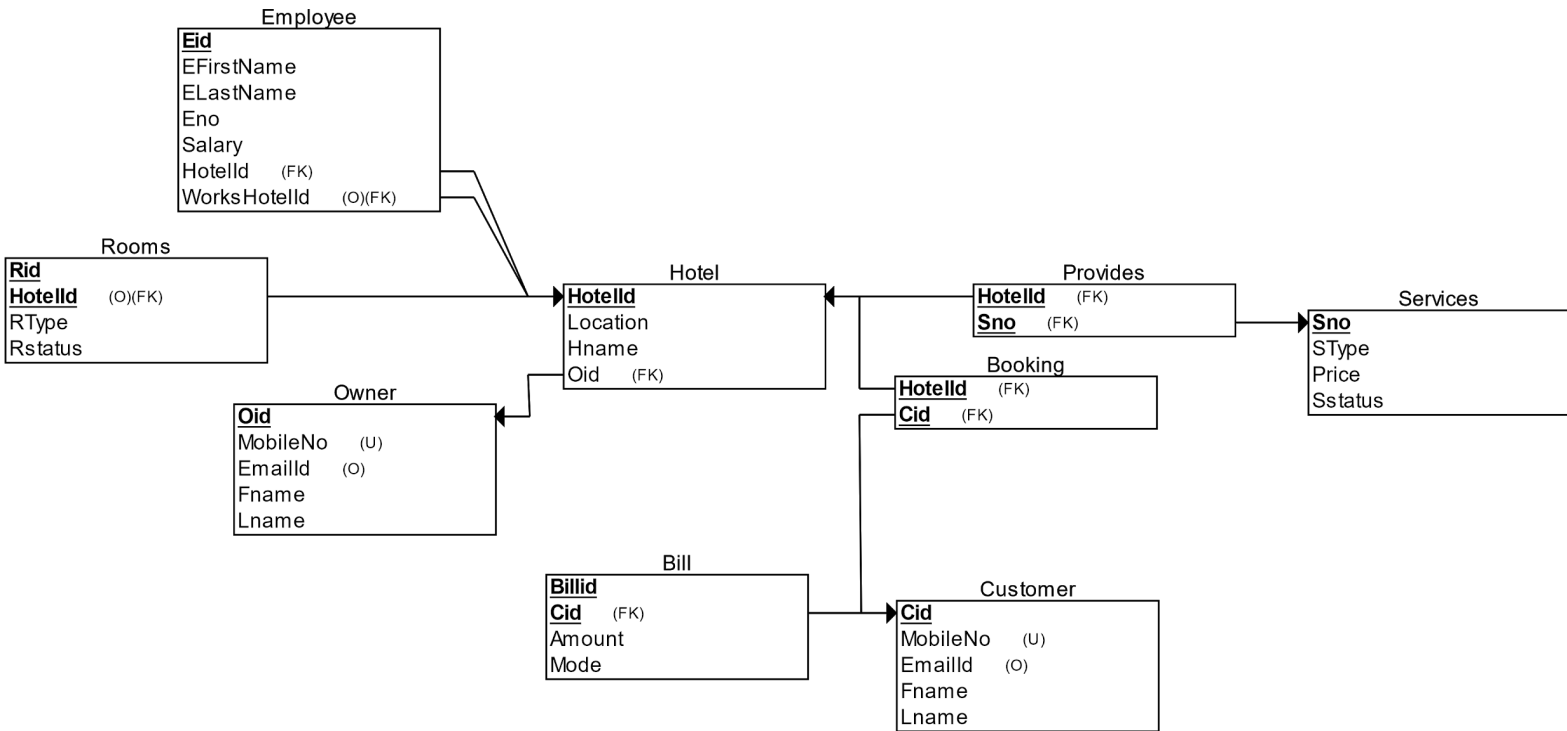
8) Normalization must be achieved.

9) Availability of rooms and services of a hotel should be known beforehand.

ER MODEL



Relational Model



Relational Schemas:-

- 1) Hotel(Hotelid int, Location varchar2(30) NOT NULL, Hname varchar2(15) NOT NULL, Oid int REFERENCES Owner(Oid))
- 2) Owner(Oid int, MobileNo int Unique, Emailld varchar2(20), Fname varchar2(15) Not NULL, Lname varchar2(15) NOT NULL)
- 3) Bill(Billid int, Cid int REFERENCES Customer(Cid), Amount int NOT NULL, Mode varchar2(4) IN ('CASH', 'CARD') NOT NULL)
- 4) Customer(Cid int, MobileNo int UNIQUE, Emailld varchar2(20), Fname varchar2(15) Not NULL, Lname varchar2(15) NOT NULL)

- 5) Booking(HotelId int
REFERENCES Hotel(HotelId) NOT
NULL, Cid int REFERENCES
Customer(Cid) NOT NULL)
- 6) Employee(Eid int, EFirstName
varchar2(15) NOT
NULL, ELastName varchar2(15)
NOT NULL, Eno int UNIQUE,
Salary int NOT NULL, HotelId int
REFERENCES Hotel(HotelId) NOT
NULL, WorksHotelId int
REFERENCES Hotel(HotelId))
- 7) Provides(HotelId int
REFERENCES Hotel(HotelID) NOT
NULL, Sno int REFERENCES
Services(Sno) NOT NULL)
- 8) Services(Sno int, Stype
varchar2(10) IN ('GYM' ,
'RESTAURANT'), Price int NOT
NULL, Sstatus varchar2(15) IN

(‘AVAILABLE’ , ‘NOT AVAILABLE’)
NOT NULL)

9) Rooms(Rid int, HotelId int
REFERENCES Hotel(HotelId),
RType varchar2(15) IN (‘AC’, ‘NON
- AC’), Rstatus varchar2(15) IN
(‘Available’, ‘Not Available’))