# Hotel Management System

## DBMS LAB Mini Project


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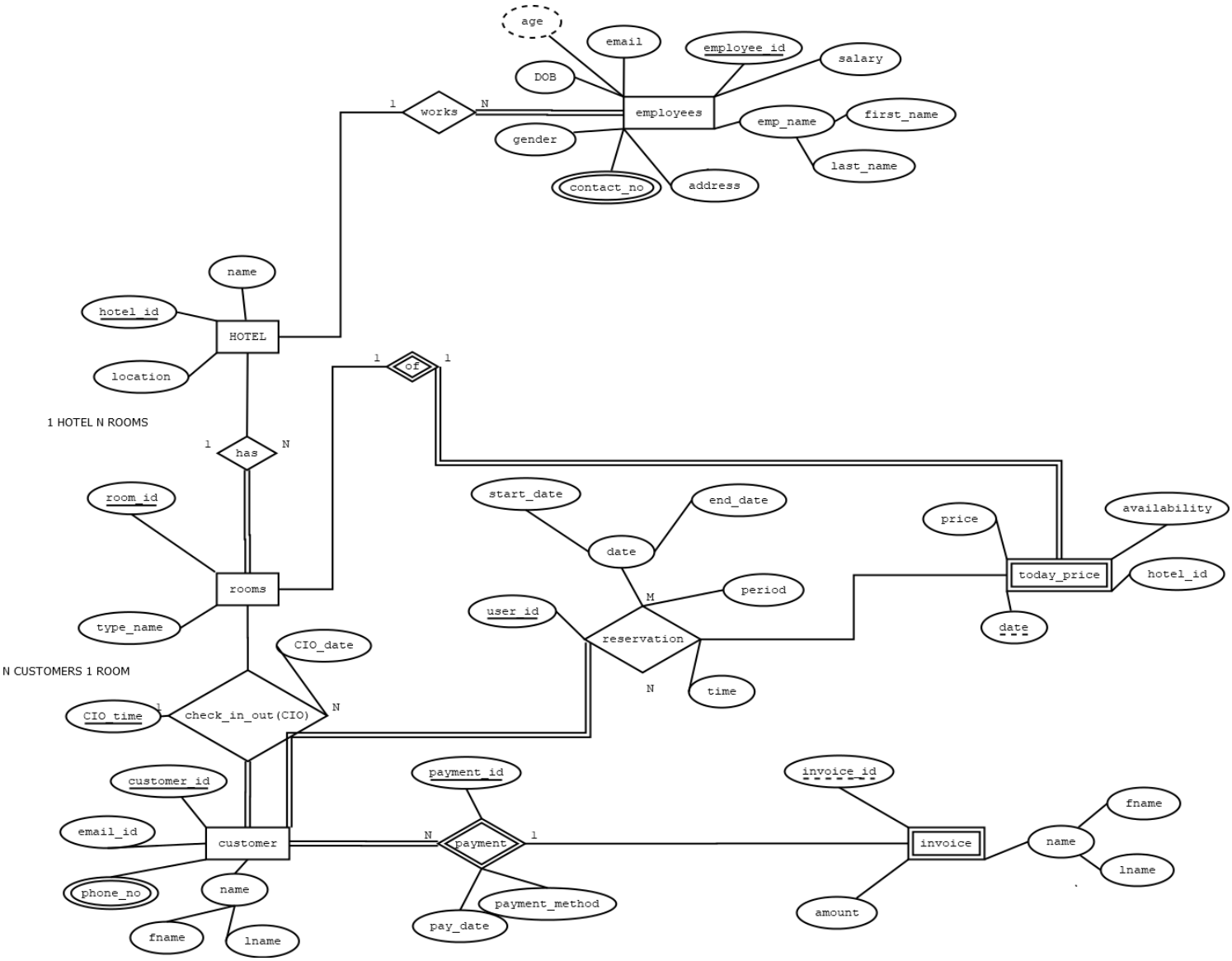
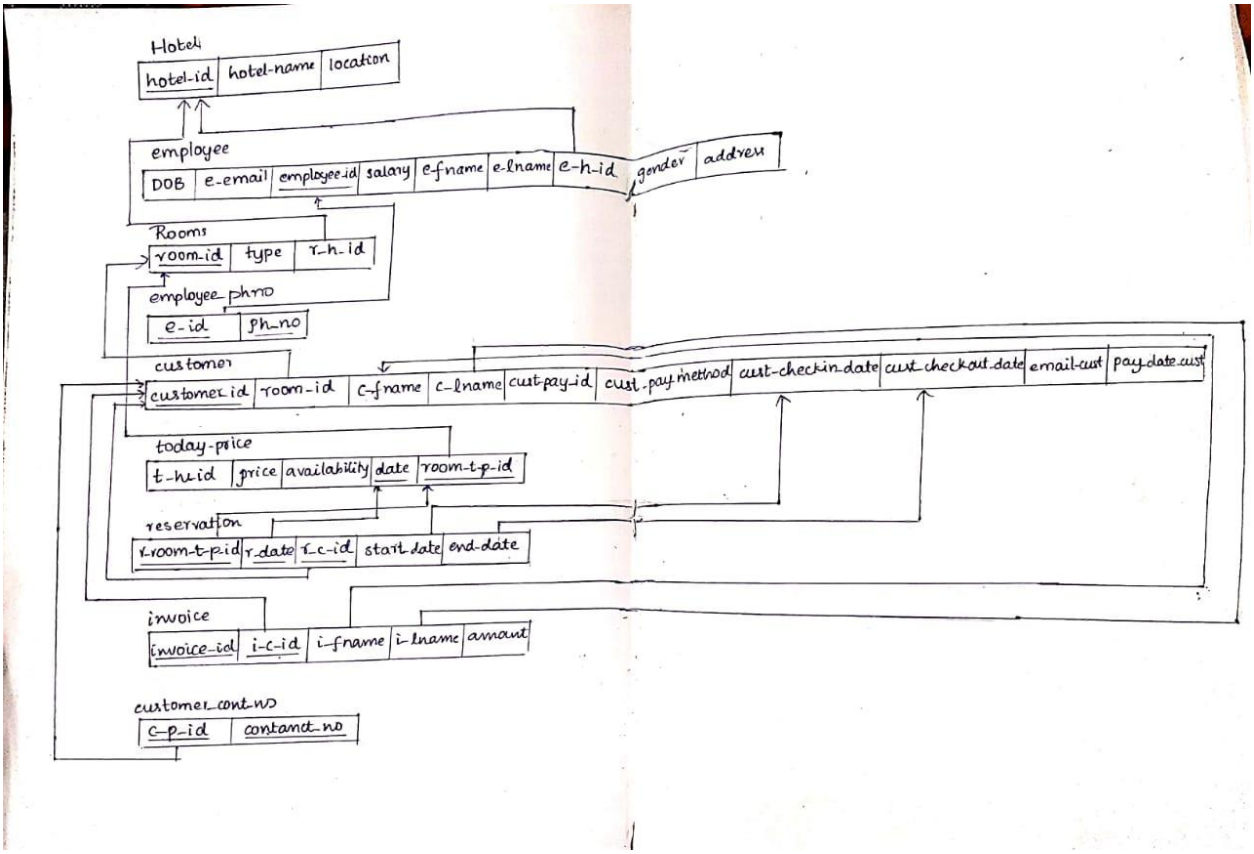
**PROBLEM STATEMENT :**

A hotel system manages information about, rooms, reservations, customers, customer payment, and hotel employees. A customer can book rooms on spot or make reservations through the hotel website. When a customer makes reservations, check-in-out time is noted along with the given id to the customer. The rooms are of two types AC and non-AC. The availability of rooms and prices varies daily. When the customer checks out, the payment is made, the customer receives an invoice and the database keeps its track. This database also manages its employee by keeping track of their Name, salary, contacts info, and the id they are assigned to.

## ER Diagram:


age
email
employee_id
salary
DOB
works
employees
emp_name
first_name
gender
last_name
contact_no
address
name
hotel_id
HOTEL
location
of
1 HOTEL N ROOMS
has
room_id
rooms
type_name
start_date
end_date
date
period
user_id
reservation
time
price
availability
today_price
hotel_id
date
CIO_date
N CUSTOMERS 1 ROOM
CIO_time
check_in_out(CIO)
customer_id
email_id
customer
phone_no
name
fname
lname
payment_id
payment
payment_method
pay_date
invoice_id
invoice
amount
name
fname
lname

**SCHEMA:**




**DB creation and population:**

**SQL Commands to Create Table and the Output of Schema and Data:**

CREATE TABLE Hotel

(

name varchar(50) NOT NULL,

location varchar(50) NOT NULL,

hotel_id int primary key

);

```
hotel=# \d hotel
                    Table "public.hotel"
  Column  |         Type          | Collation | Nullable | Default
----------+-----------------------+-----------+----------+---------
 name     | character varying(50) |           | not null |
 location | character varying(50) |           | not null |
 hotel_id | integer               |           | not null |
Indexes:
    "hotel_pkey" PRIMARY KEY, btree (hotel_id)
Referenced by:
    TABLE "employee" CONSTRAINT "employee_e_h_id_fkey" FOREIGN KEY (e_h_id) REFERENCES hotel(hotel_id)
    TABLE "rooms" CONSTRAINT "rooms_r_h_id_fkey" FOREIGN KEY (r_h_id) REFERENCES hotel(hotel_id)
    TABLE "today_price" CONSTRAINT "today_price_t_h_id_fkey" FOREIGN KEY (t_h_id) REFERENCES hotel(hotel_id)
```

```
hotel=# SELECT * from hotel;
       name        | location  | hotel_id
-------------------+-----------+----------
 RCB Hotel         | Bangalore |        1
 Star Hotel        | Mumbai    |        2
 Noa Goa           | Goa       |        3
 PES Hotel         | Chennai   |        4
 Rajdhani Hotel    | Rajasthan |        5
 Rising Pune Hotel | Pune      |        6
 Capital Hotel     | Delhi     |        7
(7 rows)
```

CREATE TABLE Employee

(

employee_id int primary key,

email varchar(50) NOT NULL,

DOB date NOT NULL,

Fname varchar(20) NOT NULL,

LName varchar(20) NOT NULL,

address varchar(50) NOT NULL,

salary numeric(10,2),

gender char NOT NULL,

e_h_id int,

foreign key(e_h_id) references Hotel(hotel_id)

);

```
hotel=# \d employee
                    Table "public.employee"
   Column    |         Type          | Collation | Nullable | Default
-------------+-----------------------+-----------+----------+---------
 employee_id | integer               |           | not null |
 email       | character varying(50) |           | not null |
 dob         | date                  |           | not null |
 fname       | character varying(20) |           | not null |
 lname       | character varying(20) |           | not null |
 address     | character varying(50) |           | not null |
 salary      | numeric(10,2)         |           |          |
 gender      | character(1)          |           | not null |
 e_h_id      | integer               |           |          |
Indexes:
    "employee_pkey" PRIMARY KEY, btree (employee_id)
Foreign-key constraints:
    "employee_e_h_id_fkey" FOREIGN KEY (e_h_id) REFERENCES hotel(hotel_id)
Referenced by:
    TABLE "employee_phno" CONSTRAINT "employee_phno_e_id_fkey" FOREIGN KEY (e_id) REFERENCES employee(employee_id)
```

```
hotel=# SELECT * from employee;
 employee_id |        email         |    dob     | fname |   lname    |      address      |  salary  | gender | e_h_id
-------------+----------------------+------------+-------+------------+-------------------+----------+--------+--------
           1 | John@gmail.com       | 1979-12-31 | John  | A          | Bangalore 560097  | 25000.00 | M      |      1
           2 | Navya@yahoo.com      | 1980-11-29 | Navya | P          | Bangalore 560085  | 30000.00 | F      |      1
           3 | abc@gmail.com        | 1975-10-25 | AB    | C          | Mumbai 40026      | 30000.00 | M      |      2
           4 | ramesh@gmail.com     | 1970-05-21 | Ramesh| B          | Mumbai 40082      | 30000.00 | M      |      2
           5 | suresh@gmail.com     | 1970-05-15 | Suresh| A          | Goa 40301         | 30000.00 | M      |      3
           6 | kohli@gmail.com      | 1979-06-16 | Virat | Kohli      | Goa 40368         | 45000.00 | M      |      3
           7 | akshay@gmail.com     | 1978-05-22 | Akshay| K          | Chennai 60001     | 45000.00 | M      |      4
           8 | netra@gmail.com      | 1977-03-13 | Netra | S          | Chennai 60039     | 35000.00 | F      |      4
           9 | anvita@gmail.com     | 1976-07-12 | Anvita| V          | Rajasthan 754133  | 37000.00 | F      |      5
          10 | abcdef@gmail.com     | 1980-09-10 | ABC   | DEF        | Rajasthan 754132  | 38000.00 | M      |      5
          11 | ramya@gmail.com      | 1981-02-08 | Ramya | S          | Pune 11045        | 50000.00 | F      |      6
          12 | mark@gmail.com       | 1985-03-07 | Mark  | M          | Pune 11047        | 45000.00 | M      |      6
          13 | zuckerberg@gmail.com | 1978-04-21 | Mark  | Zuckerberg | Delhi 110001      | 47000.00 | M      |      7
          14 | elon@gmail.com       | 1979-07-01 | Elon  | Musk       | Delhi 110010      | 60000.00 | M      |      7
(14 rows)
```

CREATE TABLE Rooms(

room_id int primary key,

room_type char(10),

r_h_id int,

foreign key(r_h_id) references Hotel(hotel_id)

);

```
hotel=# \d Rooms
                    Table "public.rooms"
  Column   |     Type      | Collation | Nullable | Default
-----------+---------------+-----------+----------+---------
 room_id   | integer       |           | not null |
 room_type | character(10) |           |          |
 r_h_id    | integer       |           |          |
Indexes:
    "rooms_pkey" PRIMARY KEY, btree (room_id)
Foreign-key constraints:
    "rooms_r_h_id_fkey" FOREIGN KEY (r_h_id) REFERENCES hotel(hotel_id)
Referenced by:
    TABLE "customer" CONSTRAINT "customer_customer_room_id_fkey" FOREIGN KEY (customer_room_id) REFERENCES rooms(room_id
)
    TABLE "today_price" CONSTRAINT "today_price_room_t_p_id_fkey" FOREIGN KEY (room_t_p_id) REFERENCES rooms(room_id)
```

```
hotel=# SELECT * from Rooms;
 room_id | room_type  | r_h_id
---------+------------+--------
    1101 | AC         |      1
    1102 | AC         |      1
    1103 | Non AC     |      1
    1104 | Non AC     |      1
    2101 | AC         |      2
    2102 | AC         |      2
    2103 | Non AC     |      2
    2104 | Non AC     |      2
    3101 | AC         |      3
    3102 | AC         |      3
    3103 | Non AC     |      3
    3104 | Non AC     |      3
    4101 | AC         |      4
    4102 | AC         |      4
    4103 | Non AC     |      4
    4104 | Non AC     |      4
    5101 | AC         |      5
    5102 | AC         |      5
    5103 | Non AC     |      5
    5104 | Non AC     |      5
    6101 | AC         |      6
    6102 | AC         |      6
    6103 | Non AC     |      6
    6104 | Non AC     |      6
    7101 | AC         |      7
    7102 | AC         |      7
    7103 | Non AC     |      7
    7104 | Non AC     |      7
(28 rows)
```

CREATE TABLE Employee_PhNo(

e_id int,

foreign key(e_id) references Employee(employee_id),

phone_num bigint,

primary key(e_id,phone_num)

);

```
hotel=# \d Employee_PhNo
            Table "public.employee_phno"
  Column   |  Type   | Collation | Nullable | Default
-----------+---------+-----------+----------+---------
 e_id      | integer |           | not null |
 phone_num | bigint  |           | not null |
Indexes:
    "employee_phno_pkey" PRIMARY KEY, btree (e_id, phone_num)
Foreign-key constraints:
    "employee_phno_e_id_fkey" FOREIGN KEY (e_id) REFERENCES employee(employee_id)
```

```
hotel=# SELECT * from Employee_PhNo;
 e_id | phone_num
------+------------
    1 | 9986156448
    2 | 9986736100
    3 | 9986736200
    4 | 9986736300
    5 | 9986125448
    6 | 9986733248
    7 | 9786732148
    8 | 9086736448
    9 | 8086736448
   10 | 8095736448
   11 | 9901736448
   12 | 6813736448
   13 | 8086736448
   14 | 8586736448
(14 rows)
```

CREATE TABLE Customer(

customer_id varchar(10) primary key,

email_customer varchar(30) NOT NULL,

customer_Fname varchar(30) NOT NULL,

```
customer_Lname varchar(30) NOT NULL,

customer_payment_id varchar(15) NOT NULL,

customer_payment_method char(10) NOT NULL,

customer_pay_date date NOT NULL,

customer_checkin_date date NOT NULL,

customer_checkout_date date NOT NULL,

customer_room_id int,

foreign key(customer_room_id) references Rooms(room_id)

);

ALTER TABLE Customer ADD CONSTRAINT unique_fname UNIQUE
(customer_Fname);

ALTER TABLE Customer ADD CONSTRAINT unique_lname UNIQUE
(customer_Lname);

ALTER TABLE Customer ADD CONSTRAINT unique_checkin UNIQUE
(customer_checkin_date);

ALTER TABLE Customer ADD CONSTRAINT unique_checkout UNIQUE
(customer_checkout_date);
```

```
hotel=# \d customer
                        Table "public.customer"
        Column          |         Type          | Collation | Nullable | Default
------------------------+-----------------------+-----------+----------+---------
 customer_id            | character varying(10) |           | not null |
 email_customer         | character varying(30) |           | not null |
 customer_fname         | character varying(30) |           | not null |
 customer_lname         | character varying(30) |           | not null |
 customer_payment_id    | character varying(15) |           | not null |
 customer_payment_method | character(10)        |           | not null |
 customer_pay_date      | date                  |           | not null |
 customer_checkin_date  | date                  |           | not null |
 customer_checkout_date | date                  |           | not null |
 customer_room_id       | integer               |           |          |
Indexes:
    "customer_pkey" PRIMARY KEY, btree (customer_id)
    "unique_checkin" UNIQUE CONSTRAINT, btree (customer_checkin_date)
    "unique_checkout" UNIQUE CONSTRAINT, btree (customer_checkout_date)
    "unique_fname" UNIQUE CONSTRAINT, btree (customer_fname)
    "unique_lname" UNIQUE CONSTRAINT, btree (customer_lname)
Foreign-key constraints:
    "customer_customer_room_id_fkey" FOREIGN KEY (customer_room_id) REFERENCES rooms(room_id)
Referenced by:
    TABLE "customer_contact" CONSTRAINT "customer_contact_customer_contact_id_fkey" FOREIGN KEY (customer_contact_id) RE
FERENCES customer(customer_id)
    TABLE "invoice" CONSTRAINT "fk_ifname" FOREIGN KEY (i_fname) REFERENCES customer(customer_fname)
    TABLE "invoice" CONSTRAINT "fk_ilname" FOREIGN KEY (i_lname) REFERENCES customer(customer_lname)
    TABLE "invoice" CONSTRAINT "invoice_i_c_id_fkey" FOREIGN KEY (i_c_id) REFERENCES customer(customer_id)
```

```
hotel=# SELECT * from Customer;
 customer_id | email_customer | customer_fname | customer_lname | customer_payment_id | customer_payment_method | customer_pay_date | customer_checkin_date | customer_checkout_date | customer_room_id
-------------+----------------+----------------+----------------+---------------------+-------------------------+-------------------+-----------------------+------------------------+------------------
 B001        | xyzabc@gmail.com | XYZ          | ABC            | SBIN12345678        | NEFT                    | 2021-07-06        | 2021-07-08            | 2021-07-10             |             1101
 B002        | ABCXYZ@gmail.com | ABC          | XYZ            | Rx123Zye            | Google Pay              | 2021-07-08        | 2021-08-10            | 2021-08-12             |             1102
 B003        | msd@gmail.com  | MS             | Dhoni          | Rx1256Ze            | Google Pay              | 2021-08-11        | 2021-08-13            | 2021-08-16             |             1102
 P001        | rj45@gmail.com | Rohit          | Sharma         | SBIN5555333322      | NEFT                    | 2021-08-10        | 2021-08-15            | 2021-08-17             |             2102
(4 rows)
```

CREATE TABLE Today_Price(

t_h_id int,

foreign key(t_h_id) references Hotel(hotel_id),

room_t_p_id int,

foreign key(room_t_p_id) references Rooms(room_id),

price decimal(10,2) NOT NULL,

availability char NOT NULL,

today_date date NOT NULL,

primary key(today_date,room_t_p_id)

);

```
hotel=# \d Today_Price
                Table "public.today_price"
    Column    |     Type      | Collation | Nullable | Default
--------------+---------------+-----------+----------+---------
 t_h_id       | integer       |           |          |
 room_t_p_id  | integer       |           | not null |
 price        | numeric(10,2) |           | not null |
 availability | character(1)  |           | not null |
 today_date   | date          |           | not null |
Indexes:
    "today_price_pkey" PRIMARY KEY, btree (today_date, room_t_p_id)
Foreign-key constraints:
    "today_price_room_t_p_id_fkey" FOREIGN KEY (room_t_p_id) REFERENCES rooms(room_id)
    "today_price_t_h_id_fkey" FOREIGN KEY (t_h_id) REFERENCES hotel(hotel_id)
```

```
hotel=# SELECT * from Today_price;
 t_h_id | room_t_p_id |  price  | availability | today_date
--------+-------------+---------+--------------+------------
      1 |        1101 | 1500.00 | Y            | 2021-09-10
      1 |        1102 | 1500.00 | Y            | 2021-09-10
      1 |        1103 |  750.00 | Y            | 2021-09-10
      1 |        1104 |  750.00 | Y            | 2021-09-10
      2 |        2101 | 1500.00 | Y            | 2021-09-10
      2 |        2102 | 1500.00 | Y            | 2021-09-10
      2 |        2103 |  750.00 | Y            | 2021-09-10
      2 |        2104 |  750.00 | Y            | 2021-09-10
      3 |        3101 | 1500.00 | Y            | 2021-09-10
      3 |        3102 | 1500.00 | Y            | 2021-09-10
      3 |        3103 |  750.00 | Y            | 2021-09-10
      3 |        3104 |  750.00 | Y            | 2021-09-10
      4 |        4101 | 1500.00 | Y            | 2021-09-10
      4 |        4102 | 1500.00 | Y            | 2021-09-10
      4 |        4103 |  750.00 | Y            | 2021-09-10
      4 |        4104 |  750.00 | Y            | 2021-09-10
      5 |        5101 | 1500.00 | Y            | 2021-09-10
      5 |        5102 | 1500.00 | Y            | 2021-09-10
      5 |        5103 |  750.00 | Y            | 2021-09-10
      5 |        5104 |  750.00 | Y            | 2021-09-10
      6 |        6101 | 1500.00 | Y            | 2021-09-10
      6 |        6102 | 1500.00 | Y            | 2021-09-10
      6 |        6103 |  750.00 | Y            | 2021-09-10
      6 |        6104 |  750.00 | Y            | 2021-09-10
      7 |        7101 | 1500.00 | Y            | 2021-09-10
      7 |        7102 | 1500.00 | Y            | 2021-09-10
      7 |        7103 |  750.00 | Y            | 2021-09-10
      7 |        7104 |  750.00 | Y            | 2021-09-10
(28 rows)
```

CREATE TABLE Reservation(

r_room_t_p_id int,

r_date date,

r_c_id varchar(10),

primary key(r_room_t_p_id,r_date,r_c_id),

start_date date NOT NULL,

end_date date NOT NULL

);

```
hotel=# \d Reservation
                    Table "public.reservation"
    Column     |         Type          | Collation | Nullable | Default
---------------+-----------------------+-----------+----------+---------
 r_room_t_p_id | integer               |           | not null |
 r_date        | date                  |           | not null |
 r_c_id        | character varying(10) |           | not null |
 start_date    | date                  |           | not null |
 end_date      | date                  |           | not null |
Indexes:
    "reservation_pkey" PRIMARY KEY, btree (r_room_t_p_id, r_date, r_c_id)
```

```
hotel=# SELECT * from Reservation;
 r_room_t_p_id |   r_date   | r_c_id | start_date |  end_date
---------------+------------+--------+------------+------------
          1101 | 2021-07-06 | B001   | 2021-07-08 | 2021-07-10
          1102 | 2021-07-08 | B002   | 2021-08-10 | 2021-08-12
          1102 | 2021-08-11 | B003   | 2021-08-13 | 2021-08-16
          1101 | 2021-08-10 | P001   | 2021-08-15 | 2021-08-17
(4 rows)
```

CREATE Table Invoice(

invoice_id varchar(10),

i_c_id varchar(10),

primary key(invoice_id,i_c_id),

foreign key(i_c_id) references Customer(customer_id),

i_fname varchar(30),

i_lname varchar(30),

amount decimal(10,2)

);

ALTER Table Invoice

ADD CONSTRAINT fk_ifname

FOREIGN KEY(i_fname)

References Customer(customer_Fname);

ALTER Table Invoice

ADD CONSTRAINT fk_ilname

FOREIGN KEY(i_lname)

References Customer(customer_Lname);

```
hotel=# \d Invoice
                    Table "public.invoice"
   Column   |         Type          | Collation | Nullable | Default
------------+-----------------------+-----------+----------+---------
 invoice_id | character varying(10) |           | not null |
 i_c_id     | character varying(10) |           | not null |
 i_fname    | character varying(30) |           |          |
 i_lname    | character varying(30) |           |          |
 amount     | numeric(10,2)         |           |          |
Indexes:
    "invoice_pkey" PRIMARY KEY, btree (invoice_id, i_c_id)
Foreign-key constraints:
    "fk_ifname" FOREIGN KEY (i_fname) REFERENCES customer(customer_fname)
    "fk_ilname" FOREIGN KEY (i_lname) REFERENCES customer(customer_lname)
    "invoice_i_c_id_fkey" FOREIGN KEY (i_c_id) REFERENCES customer(customer_id)
```

```
hotel=# SELECT * from Invoice;
 invoice_id | i_c_id | i_fname | i_lname | amount
------------+--------+---------+---------+---------
 blr_001    | B001   | XYZ     | ABC     | 1500.00
 blr_002    | B002   | ABC     | XYZ     | 1500.00
 blr_003    | B003   | MS      | Dhoni   |  750.00
 pun_001    | P001   | Rohit   | Sharma  | 1500.00
(4 rows)
```

CREATE TABLE Customer_Contact(

customer_contact_id varchar(10),

contact_number bigint,

primary key(customer_contact_id,contact_number),

foreign key(customer_contact_id) references Customer(customer_id)

);

```
hotel=# \d customer_contact
                    Table "public.customer_contact"
      Column       |         Type          | Collation | Nullable | Default
-------------------+-----------------------+-----------+----------+---------
 customer_contact_id | character varying(10) |           | not null |
 contact_number      | bigint                |           | not null |
Indexes:
    "customer_contact_pkey" PRIMARY KEY, btree (customer_contact_id, contact_number)
Foreign-key constraints:
    "customer_contact_customer_contact_id_fkey" FOREIGN KEY (customer_contact_id) REFERENCES customer(customer_id)
```

```
hotel=# SELECT * from Customer_Contact;
 customer_contact_id | contact_number
---------------------+----------------
 B001                |     9734567810
 B002                |     9654562319
 B003                |     8774365410
 P001                |     7754567750
(4 rows)
```

**Queries:**

1) Query to display employee names whose salary >45000;

```
hotel=# SELECT fname,lname from employee where salary>45000;
 fname |   lname
-------+------------
 Ramya | S
 Mark  | Zuckerberg
 Elon  | Musk
(3 rows)
```

2) SELECT contact_number from Customer_Contact AS C INNER JOIN Reservation ON Reservation.r_c_id=C.customer_contact_id WHERE c.customer_contact_id IN (SELECT r_c_id from Reservation WHERE Reservation.r_room_t_p_id='1102');

This query displays contact number of all customers who have reserved a room in hotel whose id is 1102.

```
hotel=# SELECT contact_number from Customer_Contact AS C INNER JOIN Reservation ON Reservation.r_c_id=C.customer_contact_id WHERE c.customer_contact_id IN (SELECT r_c_id from Reservation WHERE Reservation.r_room
_t_p_id='1102');
 contact_number
----------------
    9654562319
    8774365410
(2 rows)
```

3) Query to display names of all employees who are located in bangalore.

```
hotel=# SELECT fname,lname from employee where address LIKE 'Bangalore%_';
 fname | lname
-------+-------
 John  | A
 Navya | P
(2 rows)
```

4) Query to display average salary of the employees who are located in Rajasthan.

```
hotel=# SELECT Avg(Salary) from Employee where address LIKE 'Rajasthan%_'  ;
        avg
--------------------
 37500.000000000000
(1 row)
```

5) Query to display name of employees who work in a hotel named Noa Goa.

```
hotel=# SELECT FName,Lname from Employee as E INNER JOIN Hotel as H ON H.hotel_id=E.e_h_id WHERE H.name='Noa Goa';
 fname  | lname
--------+-------
 Suresh | A
 Virat  | Kohli
(2 rows)
```

6) This query displays names of all customers who has reserved an AC Room.

```
hotel=# Select customer_fname,customer_lname from Customer INNER JOIN Reservation ON Reservation.r_c_id=Customer.custome
r_id WHERE Customer.customer_id IN(SELECT r_c_id from Reservation INNER JOIN Rooms on Reservation.r_room_t_p_id=Rooms.ro
om_id WHERE Rooms.room_type='AC');
 customer_fname | customer_lname
----------------+----------------
 XYZ            | ABC
 ABC            | XYZ
 MS             | Dhoni
 Rohit          | Sharma
(4 rows)
```

7) This query displays the contact number of the customer along with the amount they have paid

```
hotel=# SELECT contact_number,amount from Customer_contact INNER JOIN Invoice ON Invoice.i_c_id=Customer_contact.customer_contact_id;
 contact_number | amount
----------------+--------
     9734567810 | 1500.00
     9654562319 | 1500.00
     8774365410 |  750.00
     7754567750 | 1500.00
(4 rows)
```

8) Display names of all employees whose salary is in the range of 30000 and 40000.

```
hotel=# SELECT fname,lname from employee where salary BETWEEN 30000 and 40000;
 fname  | lname
--------+-------
 Navya  | P
 AB     | C
 Ramesh | B
 Suresh | A
 Netra  | S
 Anvita | V
 ABC    | DEF
(7 rows)
```

9) Query to display the employee table with the salaries sorted in descending order.

```
hotel=# SELECT * from employee ORDER BY Salary DESC;
 employee_id |        email         |    dob     | fname  |   lname    |      address      |  salary  | gender | e_h_id
-------------+----------------------+------------+--------+------------+-------------------+----------+--------+--------
          14 | elon@gmail.com       | 1979-07-01 | Elon   | Musk       | Delhi 110010      | 60000.00 | M      |      7
          11 | ramya@gmail.com      | 1981-02-08 | Ramya  | S          | Pune 11045        | 50000.00 | F      |      6
          13 | zuckerberg@gmail.com | 1978-04-21 | Mark   | Zuckerberg | Delhi 110001      | 47000.00 | M      |      7
           7 | akshay@gmail.com     | 1978-05-22 | Akshay | K          | Chennai 60001     | 45000.00 | M      |      4
          12 | mark@gmail.com       | 1985-03-07 | Mark   | M          | Pune 11047        | 45000.00 | M      |      6
           6 | kohli@gmail.com      | 1979-06-16 | Virat  | Kohli      | Goa 40368         | 45000.00 | M      |      3
          10 | abcdef@gmail.com     | 1980-09-10 | ABC    | DEF        | Rajasthan 754132  | 38000.00 | M      |      5
           9 | anvita@gmail.com     | 1976-07-12 | Anvita | V          | Rajasthan 754133  | 37000.00 | F      |      5
           8 | netra@gmail.com      | 1977-03-13 | Netra  | S          | Chennai 60039     | 35000.00 | F      |      4
           5 | suresh@gmail.com     | 1970-05-15 | Suresh | A          | Goa 40301         | 30000.00 | M      |      3
           4 | ramesh@gmail.com     | 1970-05-21 | Ramesh | B          | Mumbai 40082      | 30000.00 | M      |      2
           3 | abc@gmail.com        | 1975-10-25 | AB     | C          | Mumbai 40026      | 30000.00 | M      |      2
           2 | Navya@yahoo.com      | 1980-11-29 | Navya  | P          | Bangalore 560085  | 30000.00 | F      |      1
           1 | John@gmail.com       | 1979-12-31 | John   | A          | Bangalore 560097  | 25000.00 | M      |      1
(14 rows)
```

10) Query returns the number of AC and Non AC Rooms available from the list of all hotels.

```
hotel=# SELECT room_type,Count(Room_type) FROM Rooms GROUP BY Room_type;
 room_type  | count
------------+-------
 Non AC     |    14
 AC         |    14
(2 rows)
```

11) Query using Limit and Offset

```
hotel=# SELECT email from employee where SALARY >35000;
        email
----------------------
 kohli@gmail.com
 akshay@gmail.com
 anvita@gmail.com
 abcdef@gmail.com
 ramya@gmail.com
 mark@gmail.com
 zuckerberg@gmail.com
 elon@gmail.com
(8 rows)


hotel=# SELECT email from employee where SALARY >35000 LIMIT 3 OFFSET 2;
      email
------------------
 anvita@gmail.com
 abcdef@gmail.com
 ramya@gmail.com
(3 rows)
```