RDBMS MICRO PROJECT

Class: SY Int-Btech Cse I

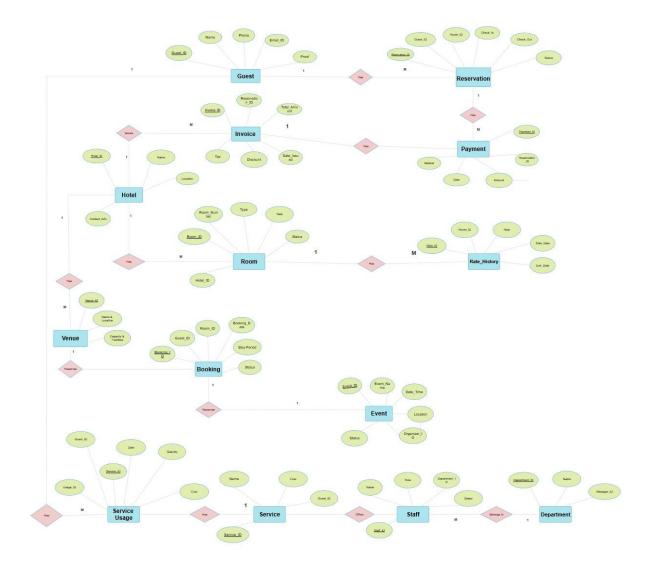
Title: Hotel Management System

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ER Diagram



Case Study

Case Study Title: Hotel Management System

1. Introduction:-

The Hotel Management System is designed to automate and simplify the operations of a hotel. It manages reservations, guest details, rooms, billing, staff, services, inventory, and events. The main objective is to improve efficiency, reduce manual errors, and provide better guest experiences.

2. Objectives:-

- 1. To maintain records of guests, reservations, and payments.
- 2. To manage room availability, rate history, and booking details.
- 3. To handle invoices and streamline financial transactions.
- 4. To manage services, staff, and departmental activities.
- 5. To keep track of hotel inventory and stock levels.
- 6. To organize events and venues within the hotel.

3. Entities and Their Roles:-

- 1. Guest Stores guest details such as Guest ID, Name, Phone, Email, Address.
- 2. Reservation Manages booking details (Reservation ID, Date, Duration).
- 3. Invoice Records billing info (Invoice ID, Amount, Discount, Tax).
- 4. Payment Tracks payments made by guests.
- 5. Hotel Holds general details of the hotel (Hotel ID, Name, Location).
- 6. Room Contains room details (Room ID, Type, Status, Rate).
- 7. Rate History Stores price changes over time.
- 8. Venue Details of venues available for events.
- 9. Booking Manages reservations for rooms/venues.
- 10. Event Records event details such as Event ID, Date, Organizer.
- 11. Service Hotel services such as laundry, food, spa.
- 12. Service Usage Tracks which services are used by which guest.
- 13. Staff Employee details including Staff ID, Role, Salary.
- 14. Department Departments such as housekeeping, catering, management.

4. Relationships:-

- 1. Guest–Reservation: A guest can make many reservations.
- 2. Reservation-Invoice-Payment: Each reservation generates invoices and payments.
- 3. Hotel–Room: A hotel contains multiple rooms.
- 4. Room–Rate History: Room prices change over time.
- 5. Booking–Event–Venue: Bookings are made for events and linked to venues.
- 6. Guest-Service Usage-Service: Guests use services provided by the hotel.
- 7. Staff–Department–Service: Staff belong to departments and provide services.

5. System Workflow:-

- 1. Guest makes a reservation.
- 2. System checks room availability and confirms booking.
- 3. At check-in, guest details are stored.
- 4. Invoice and payment are generated at check-out.
- 5. Guests can avail extra services (food, laundry, spa), which are added to the invoice.
- 6. Staff and departments ensure smooth hotel operations.
- 7. Hotels may host events; bookings for venues are managed in the system.

6. Advantages:-

- 1. Easy management of reservations and guest records.
- 2. Accurate billing and payment tracking.
- 3. Proper monitoring of inventory and stock.
- 4. Efficient staff and service management.
- 5. Enhanced guest experience with smooth operations.

7. Conclusion:-

This Hotel Management System provides an integrated solution to manage hotel operations digitally. The ER diagram shows a complete structure covering guests, staff, services, events, and billing. Implementing this system reduces errors, saves time, and ensures better customer satisfaction.

SQL MODULE

```
mysql> create table hotel -> (hotel_id int primary key, name char(30) not null, location varchar(30) not null, contact_info varchar(30) not null); Query OK, 0 rows affected (0.05 sec)
mysql> desc hotel;
                      Туре
                                       | Null | Key | Default | Extra |
   hotel_id
                                        NO
NO
NO
                                                  PRI
  name | char(30) |
location | varchar(30) |
contact_info | varchar(30) |
                                                          NULL
4 rows in set (0.01 sec)
mysql> insert into hotel values (1,'Grand Palace Hotel', 'New York', 'contact@grandpalace.com');
Query OK, 1 row affected (0.02 sec)
mysql> select * from hotel;
 hotel_id | name
                                            location | contact_info
            1 | Grand Palace Hotel | New York | contact@grandpalace.com
1 row in set (0.00 sec)
mysql> update hotel set location='New York, USA' where hotel_id=1; Query OK, 1 row affected (0.02 sec) Rows matched: 1 Changed: 1 Warnings: 0
mysql> select * from hotel;
 hotel_id | name
                                            location
                                                                | contact_info
            1 | Grand Palace Hotel |
                                            New York, USA | contact@grandpalace.com
1 row in set (0.00 sec)
<code>mysql></code> insert into hotel values (2, 'Westin', 'Pune, India', 'contact@westin.com'); Query OK, 1 row affected (0.02 sec)
                                               'VTP', 'Pune, India', 'contact@VTP.com');
```

```
mysql> insert into guest values
   -> (3,'Taru',764454,'taru@gmail.com','DL123458');
Query OK, 1 row affected (0.02 sec)
 mysql> insert into guest values
   -> (4,'Kunshi',764874,'kunshi@gmail.com','DL123479');
Query OK, 1 row affected (0.02 sec)
 mysql> insert into guest values
   -> (5,'Anamika',986874,'anamika@gmail.com','DL123487');
Query OK, 1 row affected (0.02 sec)
 mysql> insert into guest values
   -> (6,'Rakshita',765874,'rakshita@gmail.com','DL123489');
Query OK, 1 row affected (0.02 sec)
 mysql> insert into guest values
    -> (7,'Diganta',770874,'diganta@gmail.com','DL123495');
Query OK, 1 row affected (0.02 sec)
 mysql> insert into guest values
   -> (8,'Abhirami',770868,'abhirami@gmail.com','DL123486');
Query OK, 1 row affected (0.02 sec)
  mysql> select * from guest;
     guest_id | name
                                             phone
                                                                   email
                                                                                                             id_proof
                                                                  chinmayi@gmail.com
alina@gmail.com
taru@gmail.com
kunshi@gmail.com
anamika@gmail.com
rakshita@gmail.com
diganta@gmail.com
abhirami@gmail.com
                                                                                                            DL123456
DL123457
DL123458
DL123479
DL123487
DL123489
DL123495
DL123486
                         Chinmayi | 988123
Alina | 764123
Taru | 764454
Kunshi | 764874
Anamika | 986874
Rakshita | 768874
                                                 770874
770868
mysql> create table department
   -> (department_id int primary key, name char(30) not null, manager_id int not null);
Query OK, 0 rows affected (0.04 sec)
mysql> alter table department add constraint uk unique(manager_id); Query OK, \theta rows affected (\theta.\theta4 sec) Records: \theta Duplicates: \theta Warnings: \theta
  mysql> desc department;
                                 Type
                                                        | Null | Key | Default | Extra
                                                                                     NULL
NULL
NULL
                                 int
| char(30)
| int
                                                          NO
NO
NO
     department_id |
name
                                                                         PRI
     manager_id
                                                                         UNI
3 rows in set (0.00 sec)
mysql> insert into department values
mysql> alter table department modify manager_id varchar(20);
Query OK, 0 rows affected (0.09 sec)
Records: 0 Duplicates: 0 Warnings: 0
 mysql> desc department;
                                                              | Null | Key | Default | Extra |
   Field
                                 Type
                                    int |
char(30) |
varchar(20) |
     department_id
                                                                               PRT
    name
manager_id
 3 rows in set (0.00 sec)
mysql> insert into department values

-> (1,'Front office', 'D1');

Query OK, 1 row affected (0.01 sec)
 mysql> insert into department values
   -> (2,'Food', 'D2');
Query OK, 1 row affected (0.00 sec)
mysql> insert into department values

-> (3,'House keeping', 'D3');

Query OK, 1 row affected (0.01 sec)
mysql> (3, 'Security', 'D4');
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MySQL server version for the right syntax to use near '3, 'Security', 'D4')' at line 1
mysql> insert into department values
-> (4, 'Security', 'D4');
Query OK, 1 row affected (0.00 sec)
 mysql> insert into department values
-> (5,'Accounts', 'D5');
Query OK, 1 row affected (0.01 sec)
  mysql> select * from department;
    department_id | name
                                                                    manager_id
                                    Front office
Food
House keeping
Security
Accounts
                                                                    D1
D2
D3
D4
D5
 5 rows in set (0.00 sec)
```

```
mysql> create table staff
  -> (staff_id int primary key, name char(30) not null, role char(30), dept_id int not null, salary int not null);
Query OK, 0 rows affected (0.03 sec)
mysql> alter table staff add constraint chk check (salary>10000);
Query OK, 0 rows affected (0.07 sec)
Records: 0 Duplicates: 0 Warnings: 0
 mysgl> desc staff:
    Field
                      | Type
                                          | Null | Key | Default | Extra |
     staff_id | int
                                             NO
NO
                         char(30)
char(30)
    name
role
                                                                       NULL
                                                                      NULL
NULL
    dept_id
salary
                         int
                                              NO
                                             NO
                                                                       NULL
5 rows in set (0.00 sec)
 mysql> insert into staff values
   -> (1,'Abhiruchi','Chef',2,40000);
Query OK, 1 row affected (0.01 sec)
 mysql> insert into staff values
   -> (2,'Tanmay','Accountant',32,50000);
Query OK, 1 row affected (0.01 sec)
mysql> insert into staff values
  -> (3,'Nimish','House keeper',42,25000);
Query OK, 1 row affected (0.01 sec)
 mysql> select * from staff;
    staff_id | name
                                                                           dept_id | salary |
                                                                                      2
32
42
                         Tanmay
Nimish
                                                Accountant
                                                                                                 25000
                                                House keeper
 3 rows in set (0.00 sec)
mysql> create table service
  -> (service_id int primary key, name char(30) not null, cost int not null);
Query OK, 0 rows affected (0.06 sec)
mysql> insert into service
mysql> alter table service add constraint chk_cost check (cost>2000);
Query OK, 0 rows affected (0.09 sec)
Records: 0 Duplicates: 0 Warnings: 0
mysql> insert into service
-> (1, 'Accommodation', 10000);
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MySQL server version for the right syntax to use near '1, 'Accommodation', 10000)' at line 2
mysql> insert into service values
-> (1,'Accommodation',10000);
Query OK, 1 row affected (0.02 sec)
mysql> insert into service values
    -> (2,'Food',5000);
Query OK, 1 row affected (0.02 sec)
mysql> insert into service values
-> (3,'House keeping',3000);
Query OK, 1 row affected (0.02 sec)
mysql> insert into service values
    -> (4,'Recreation',17000);
Query OK, 1 row affected (0.02 sec)
mysql> insert into service values
   -> (5,'Event',20000);
Query OK, 1 row affected (0.02 sec)
mysql> insert into service values

-> (6,'Security',21000);

Query OK, 1 row affected (0.02 sec)
```

```
mysql> select * from service;
     service_id | name
                                                          cost
                                                           10000
5000
3000
                              Accommodation
                             Food
House keeping
                                                            17000
                             Recreation
                             Event
Security
 6 rows in set (0.00 sec)
 mysql> create table room
  -> (room_no int primary key, type char(30
  -> \c
 mysql> create table room
-> (room_no int primary key, type char(30) not null, status char(30) not null, rate int constraint chk_rate check(rate>3000), constraint fk_
hotel_id
hotel_id
-> foreign key(hotel_id) references hotel(hotel_id));
ERROR 1072 (42000): Key column 'hotel_id' doesn't exist in table
mysql> alter table room add hotel_id int;
ERROR 1146 (42502): Table 'demo.room' doesn't exist
mysql> create table room
-> (room_no int primary key, type char(30) not null, status char(30) not null, rate int constraint chk_rate check(rate>3000),
-> hotel_id int, constraint fk_hotelid foreign key(hotel_id) references hotel(hotel_id));
Query OK, 0 rows affected (0.14 sec)
 mysql> desc room;
    Field
                                            | Null | Key | Default | Extra
     room no
                                              NO
NO
NO
YES
                                                            PRI
                                                                       NULL
NULL
NULL
NULL
                         char(30)
char(30)
     type
status
     rate
hotel_id
                          int
                         int
                                              YES
                                                            MUL
                                                                        NULL
 mysql> insert into room values
   -> (100,'standard','Available',4000,1);
Query OK, 1 row affected (0.02 sec)
 mysql> insert into room values
   -> (201,'Deluxe','Available',5000,2);
Query OK, 1 row affected (0.02 sec)
 mysql> insert into room values
  -> (301, 'Suite', 'Available', 6000, 3);
Query OK, 1 row affected (0.02 sec)
 mysql> insert into room values
   -> (401,'Executive','Available',7000,4);
Query OK, 1 row affected (0.00 sec)
 mysql> insert into room values
   -> (101,'Standard','Available',4000,5);
Query OK, 1 row affected (0.02 sec)
 mysql> insert into room values
   -> (202,'Deluxe','Available',5000,6);
Query OK, 1 row affected (0.02 sec)
 mysql> insert into room values
  -> (302, 'Suite', 'Available',6000,7);
Query OK, 1 row affected (0.02 sec)
 mysql> insert into room values
-> (402,'Executive','Available',7000,8);
Query OK, 1 row affected (0.02 sec)
  mysql> select * from room;
     room_no | type
                                                                   | rate | hotel_id |
                                            status
                        standard
Standard
                                               Available
             100
                                                                                                 1
5
2
6
3
7
4
8
                                               Available
Available
Available
Available
             101
                                                                      4000
            201
202
301
                       Deluxe
Deluxe
                                                                     5000
5000
                        Suite
                                                                     6000
             302
401
                        Suite
Executive
                                              Available
Available
Available
                                                                     6000
7000
7000
                        Executive
 mysql> create table reservation
-> (reservation_id int primary key, guest_id int, room_id int, check_in date not null, check_out date not null, status char(30) not null,
 mysql> create table reservation
   -> (reservation_id int primary key, guest_id int, room_no int, check_in date not null, check_out date not null, status char(30) not null,
   -> constraint fk_guest_id foreign key(guest_id) references guest(guest_id), constraint fk_room_no foreign key(room_no) references room(room_
 no));
Query OK, 0 rows affected (0.08 sec)
 mysql> insert into reservation values
-> (12622,1,100,'2025-01-02','2025-01-03','Availabe');
Query OK, 1 row affected (0.02 sec)
 mysql> insert into reservation values

-> (12623,2,101,'2025-01-02','2025-01-04','Availabe');

Query OK, 1 row affected (0.02 sec)
 mysql> insert into reservation values

-> (12624,3,201,'2025-01-02','2025-01-06','Available');

Query OK, 1 row affected (0.02 sec)
```

```
mysql> insert into reservation values

-> (12625,4,201,'2025-01-02','2025-01-08','Available');

Query OK, 1 row affected (0.02 sec)
mysql> insert into reservation values

-> (12626,5,202,'2025-01-01','2025-01-09','Available');

Query OK, 1 row affected (0.02 sec)
mysql> insert into reservation values

-> (12627,6,301,'2025-01-03','2025-01-10','Available');

Query OK, 1 row affected (0.02 sec)
mysql> insert into reservation values
-> (12628,7,341,'2025-01-03','2025-01-13','Available');
ERROR 1452 (23000): Cannot add or update a child row: a foreign key constraint fails ('demo'.'reservation', CONSTRAINT 'fk_room_no' FOREIGN KEY
('room_no') REFERENCES 'room' ('room_no'))
mysql> select * from reservation;
     reservation_id | guest_id | room_no | check_in
                                                                                                              | check_out
                                                                         100 | 2025-01-02 | 2025-01-03

101 | 2025-01-02 | 2025-01-04

201 | 2025-01-02 | 2025-01-06

201 | 2025-01-02 | 2025-01-06

202 | 2025-01-01 | 2025-01-09

301 | 2025-01-03 | 2025-01-10
                                                                                                                                            Availabe
Availabe
Available
Available
Available
Available
                        12622
12623
12624
12625
                        12626
12627
 6 rows in set (0.00 sec)
mysql> insert into room values
mysql' insert into reservation values

-> (126228,7,202,'2025-01-03','2025-01-12','Available');

Query OK, 1 row affected (0.02 sec)
mysql> insert into reservation values
-> (126229,8,501,'2025-01-10','2025-01-15','Available');
mysql> insert into reservation values
-> (126229,8,402,'2025-01-10','2025-01-15','Available');
Query OK, 1 row affected (0.02 sec)
mysql> select * from reservation;
    reservation_id | guest_id | room_no | check_in
                                                                                                               2025-01-03
2025-01-04
2025-01-06
2025-01-08
2025-01-09
2025-01-10
2025-01-12
2025-01-15
                                                                                     2025-01-02
2025-01-02
2025-01-02
                       12622
12623
12624
                                                                                                                                            Availabe
                                                                        101
201
                                                                                                                                            Availabe
Available
                                                                        201
202
301
                                                                                    2025-01-02
2025-01-01
2025-01-03
                                                                                                                                            Available
Available
Available
                       12625
                       12626
12627
                      126228
                                                                        202
402
                                                                                     2025-01-03
2025-01-10
                                                                                                                                            Available
8 rows in set (0.00 sec)
mysql> create table payment
-> (payment_id int primary key, reservation_id int, amount int not null, payment_date date not null, method char(30),
-> constraint fk_reservation_id foreign key(reservation_id) references reservation(reservation_id));
Query OK, 0 rows affected (0.10 sec)
   Field
                                    | Type
                                                            | Null | Key | Default | Extra |
    payment_id
                                                               YES
NO
NO
YES
                                        int
int
date
                                                                                           NULL
NULL
NULL
    reservation_id
                                                                              MUL
    amount
payment_date
method
                                        char(30)
                                                                                           NULL
5 rows in set (0.00 sec)
mysql> insert into payment values
-> (1011,12622,1000,'2025-01-02','UPI');
Query OK, 1 row affected (0.02 sec)
mysql> insert into payment values
-> (1012,12623,1100,'2025-01-02','UPI');
Query OK, 1 row affected (0.02 sec)
mysql> insert into payment values
-> (1013,12624,22000,'2025-01-03','Check');
Query OK, 1 row affected (0.01 sec)
mysql> insert into payment values
-> (1014,12625,22500,'2025-01-03','Check');
Query OK, 1 row affected (0.02 sec)
mysql> insert into payment values
-> (1015,12626,22600,'2025-01-03','Check');
Query OK, 1 row affected (0.02 sec)
mysql> insert into payment values
-> (1016,12627,22000,'2025-01-04','UPI');
Query OK, 1 row affected (0.02 sec)
mysql> insert into payment values
-> (1017,12627,23000,'2025-01-04','UPI');
Query OK, 1 row affected (0.02 sec)
```

mysql> insert into payment values -> (1018,126228,20000,'2025-01-05','UPI'); Query OK, 1 row affected (0.02 sec)

```
mysql> select * from payment;
    payment_id | reservation_id | amount | payment_date | method |
                                                                             2025-01-02
                                                               1000
1100
                                                                                                       UPI
UPI
                                             12622
                                                                            2025-01-02
2025-01-03
2025-01-03
2025-01-03
                1012
                                             12623
                1013
                                             12624
                                                             22000
22500
                                                                                                       Check
Check
                1014
                                             12625
                1015
                                             12626
                                                              22600
                                                                                                       Check
                                                                            2025-01-04
2025-01-04
2025-01-05
                                                                                                      UPI
UPI
UPI
                1016
1017
                                             12627
12627
                                                             22000
23000
                1018
                                           126228
                                                              20000
 8 rows in set (0.00 sec)
-> (invoice_id int primary key, reservation_id int, total_amount int constraint chk_total check(total_amount>2000), tax int, discount int, -> date_issued date not null, constraint fk_res_id foreign key(reservation_id) references reservation(reservation_id));
Query OK, 0 rows affected (0.07 sec)
 mysql> desc invoice;
                                 | Type | Null
                                                                       Default | Extra
   Field
                                                            Key
                                   int
int
                                               NO
YES
                                                            PRI
MUL
                                                                       NULL
NULL
    reservation_id
total_amount
                                   int
int
                                               YES
YES
                                                                       NULL
NULL
                                               YES
NO
    discount
                                   int
                                                                        NULL
6 rows in set (0.00 sec)
mysql> insert into invoice values
-> (10001,126222,10000,1800,2000,'2025-01-02');

ERROR 1452 (23000): Cannot add or update a child row: a foreign key constraint fails ('demo'.'invoice', CONSTRAINT 'fk_res_id' FOREIGN KEY ('res ervation_id'))

REFERENCES 'reservation' ('reservation_id'))
mysql> insert into invoice values
-> (10001,12622,10000,1800,2000,'2025-01-02');
Query OK, 1 row affected (0.01 sec)
mysql> insert into invoice values

-> (10002,12623,10000,1800,1000,'2025-01-02');

Query OK, 1 row affected (0.02 sec)
mysql> insert into invoice values
-> (10003,12624,22000,3960,5000,'2025-01-03');
Query OK, 1 row affected (0.02 sec)
mysql> insert into invoice values
-> (10004,12625,23000,4140,5500,'2025-01-03');
Query OK, 1 row affected (0.02 sec)
mysql> insert into invoice values
    -> (10005,12626,23100,4158,5500,'2025-01-03');
Query OK, 1 row affected (0.02 sec)
mysql> insert into invoice values
    -> (10006,12627,22000,3960,5000,'2025-01-04');
Query OK, 1 row affected (0.01 sec)
mysql> insert into invoice values
-> (10007,126228,54000,9720,7000,'2025-01-03');
Query OK, 1 row affected (0.02 sec)
mysql> insert into invoice values

-> (10008,126229,50000,9000,7000,'2025-01-03');

Query OK, 1 row affected (0.02 sec)
 mysql> select * from invoice;
                                                                                                | discount | date_issued |
   invoice_id | reservation_id | total_amount | tax
                                                                                                                       2025-01-02
             10001
                                            12622
                                                                        10000
                                                                                      1800
                                                                                                                      2025-01-02
2025-01-03
2025-01-03
2025-01-03
                                                                                                          1000
5000
5500
5500
             10002
10003
                                            12623
12624
                                                                       10000
                                                                                      1800
3960
             10004
10005
                                            12625
12626
                                                                       23000
23100
                                                                                     4140
4158
             10006
10007
                                          12627
126228
                                                                       22000
54000
                                                                                      3960
9720
9000
                                                                                                          5000
7000
                                                                                                                      2025-01-04
2025-01-03
2025-01-03
             10008
                                          126229
                                                                        50000
                                                                                                          7000
8 rows in set (0.00 sec)
```

```
mysql> create table rate_history

-> (rate_id int primary key, room_no int, rate int constraint ch_rate check(rate>1000), start_date date not null, end_date date not null,

-> constraint fk_rno foreign key(room_no) references room(room_no));
Query OK, 0 rows affected (0.08 sec)
  mysql> desc rate_history;
    Field
                         | Type | Null | Key | Default | Extra
    rate_id
    room_no
rate
start_date
                                                                 NULL
NULL
NULL
                            int
                                         YES
YES
                                                      MUL
                            date
                                         NO
    end date
                           date
                                         NO
                                                                 NULL
 5 rows in set (0.01 sec)
mysql> insert into rate_history values

-> (901,100,20000,'2025-01-03','2025-01-03');

Query OK, 1 row affected (0.02 sec)
mysql> insert into rate_history values

-> (902,101,5000,'2025-01-03','2025-01-04');

Query OK, 1 row affected (0.02 sec)
mysql> insert into rate_history values

-> (903,201,6000,'2025-01-03','2025-01-05');

Query OK, 1 row affected (0.02 sec)
mysql> insert into rate_history values

-> (904,202,7000,'2025-01-03','2025-01-06');

Query OK, 1 row affected (0.02 sec)
mysql> insert into rate_history values

-> (905,301,8000,'2025-01-03','2025-01-06');

Query OK, 1 row affected (0.02 sec)
    vsql> select * from rate_history;
    rate_id | room_no |
                                         rate
                                                        start_date | end_date
                                                                                2025-01-03
2025-01-04
2025-01-05
2025-01-06
2025-01-06
                               100
101
201
                                          20000
5000
6000
                                                        2025-01-03 |
2025-01-03 |
2025-01-03 |
            901
902
903
                               202
301
                                            7000
8000
                                                         2025-01-03
2025-01-03
  5 rows in set (0.00 sec)
 mysql> create table schedule
   -> (schedule_id int primary key, staff_id int, shift_start varchar(30) not null, shift_end varchar(30) not null, shift_date date,
   -> constraint fk_staff foreign key(staff_id) references staff(staff_id));
Query OK, 0 rows affected (0.09 sec)
 mysql> insert into schedule values
 -> \c
mysql> desc schedule
-> :
    Field
                              Type
                                                        Null | Key | Default | Extra |
     schedule_id
    staff_id
shift_start
shift_end
shift_date
                                                         YES
                               int
                                                                      MUL
                                                                                 NULL
                              varchar(30)
varchar(30)
date
                                                        NO
NO
YES
                                                                                 NULL
NULL
NULL
  5 rows in set (0.00 sec)
 mysql> insert into schedule values

-> (10,1,'07:00','10:00','2025-01-03');

Query OK, 1 row affected (0.01 sec)
 mysql> insert into schedule values
     -> (11,2,'07:00','10:00','2025-01-03');
mysql> insert into schedule values
    -> (12,3,'07:00','11:00','2025-01-04');
Query OK, 1 row affected (0.02 sec)
 mysql> select * from schedule;
   schedule_id | staff_id | shift_start | shift_end | shift_date |
                     10
11
12
                                                  07:00
07:00
                                                                             10:00
10:00
                                                                                                    2025-01-03
                                                                                                   2025-01-03
2025-01-04
                                                  07:00
                                                                             11:00
 3 rows in set (0.00 sec)
             create table service_usage
(usage_id int primsry key, service_id int, guest_id int, service_date date, cost int constraint ch_c check(cost>500),
-- \c
wysql> create table service_usage
-- (usage_id int primary key, service_id int, guest_id int, service_date date, cost int constraint ch_c check(cost>500),
-- constraint fk_sid foreign key(service_id) references service(service_id),
--> constraint fk_gid foreign key(guest_id) references guest(guest_id));
Query OK, 0 rows affected (0.09 sec)
```