

## Database Name: hotel\_management\_system

### 5 Different Triggers:

- If the makes a payment, the current\_balance of the hotel will be updated:

```
CREATE TRIGGER payment_trigger AFTER INSERT ON hotel_management_system.payment
FOR EACH ROW BEGIN
INSERT INTO hotel_management_system.hotel(Current_Balance)
VALUES(Current_Balance+Pay_Amount)
END
```

- If an employee is created, the corresponding IDs of the employee, role, permission, and login will be stored in Emp\_Grants:
- If a customer books a room, the corresponding IDs of the customer room, payment will be stored in the reservation system.
- If an object is added into facilities table, the current\_balance of the hotel be affected:

```
CREATE DEFINER = CURRENT_USER TRIGGER
`hotel_management_system`.`facilities_AFTER_INSERT` AFTER INSERT ON `facilities` FOR
EACH ROW
BEGIN
INSERT INTO hotel_management_system.hotel(Current_Balance) VALUES(Current_Balance-
Object_Price)
END
```

- If the date is 01.01.xxxx the annual income will be updated.

### 5 Different Views:

- Customers can only view the Hotel\_Name, Email, Fax, and Hotel\_Address:

```
my_cursor.execute("SELECT * FROM HOTEL_MANAGEMENT_SYSTEM.customer_hotel_view")
record = my_cursor.fetchall()
print("Hotel Name: "+record[0][0])
print("Hotel Email Address: "+record[0][1])
print("Hotel Fax Address: "+record[0][2])
print("Hotel Location Address: "+record[0][3])
```

- The manager can view all the details of the hotel:

```
my_cursor.execute("SELECT * FROM HOTEL_MANAGEMENT_SYSTEM.manager_hotel_view")
record = my_cursor.fetchall()
print("Hotel Name: "+record[0][1])
print("Hotel Email Address: "+record[0][2])
print("Hotel Fax Address: "+record[0][3])
print("Hotel Location Address: "+record[0][4])
```

```
print("Hotel Description: "+ record[0][5])
print("Hotel Current Budget: "+ str(record[0][6]))
print("Hotel Establishment Date: "+ record[0][7])
```

- the receptionist can only see the Hotel\_Name, Fax, Hotel\_Address, and the Hotel Establishment Date:

```
my_cursor.execute("SELECT * FROM
HOTEL_MANAGEMENT_SYSTEM.receptionist_hotel_view")
record = my_cursor.fetchall()
print("Hotel Name: "+ record[0][0])
print("Hotel Fax Address: "+ record[0][1])
print("Hotel Location Address: "+ record[0][2])
print("Hotel Establishment Date: "+ record[0][3])
```

- Hotel Cleaner can see the manager's name, last name, and email address:

```
my_cursor.execute("SELECT * FROM
HOTEL_MANAGEMENT_SYSTEM.cleaner_manager_view")
record = my_cursor.fetchall()
print("Manager First Name: "+ record[0][0])
print("Manager Last Name: "+ record[0][1])
print("Manager Email: "+ record[0][2])
```

- The Hotel IT engineer can see the manager's name, last name email, and phone number:

```
my_cursor.execute("SELECT * FROM HOTEL_MANAGEMENT_SYSTEM.it_manager_view")
record = my_cursor.fetchall()
print("Manager First Name: "+ record[0][0])
print("Manager Last Name: "+ record[0][1])
print("Manager Phone Number: "+ record[0][2])
print("Manager Email: "+ record[0][3])
```

## Outer Right Join:

```
my_cursor.execute("SELECT * FROM HOTEL_MANAGEMENT_SYSTEM.customer RIGHT
OUTER JOIN HOTEL_MANAGEMENT_SYSTEM.room_types ON
HOTEL_MANAGEMENT_SYSTEM.customer.Customer_ID =
HOTEL_MANAGEMENT_SYSTEM.room_types.CustomerId;")
record = my_cursor.fetchall()
print("Customer_ID First_Name Last_Name GenderDate_Of_Birth Place_Of_Birth ID
customerId roomTypeId roomTypeName")
for x in range(len(record)):
    print(record[x])
```

## Outer Left Join:

```
my_cursor.execute("SELECT * FROM HOTEL_MANAGEMENT_SYSTEM.customer LEFT OUTER  
JOIN HOTEL_MANAGEMENT_SYSTEM.room_types ON  
HOTEL_MANAGEMENT_SYSTEM.customer.Customer_ID =  
HOTEL_MANAGEMENT_SYSTEM.room_types.CustomerId;")  
record = my_cursor.fetchall()  
print("Customer_ID First_Name Last_Name GenderDate_Of_Birth Place_Of_Birth ID  
customerId roomTypeId roomTypeName")  
for x in range(len(record)):  
    print(record[x])
```

## Full-Outer Join:

```
my_cursor.execute("SELECT * FROM HOTEL_MANAGEMENT_SYSTEM.customer FULL OUTER  
JOIN HOTEL_MANAGEMENT_SYSTEM.room_types ON  
HOTEL_MANAGEMENT_SYSTEM.customer.Customer_ID =  
HOTEL_MANAGEMENT_SYSTEM.room_types.CustomerId;")  
record = my_cursor.fetchall()  
print("Customer_ID First_Name Last_Name GenderDate_Of_Birth Place_Of_Birth ID  
customerId roomTypeId roomTypeName")  
for x in range(len(record)):  
    print(record[x])
```