

# DATABASE PROJECT

HOTEL MANAGEMENT DATABASE

GROUP2

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# PHASE1

# **BUSINESS RULES**

- The hotel employee reserves rooms for customers.
- Hotel employees' data is name, date of birth, job number, age(calculated), and salary.
- The hotel requires that the customer's data be registered,
   which is the name, phone number, and ID number.
- The hotel system reserves only one room for each customer in each reservation process and records the reservation date, expiration date, and room number, SRnum.
- Customers can purchase from the hotel's restaurant(room service), and the hotel stores a list of the foods available to it by registering the food code, name, price, and a brief overview of it.

is a hotel management system consisting of five main tables: customers, buy, hotelemployee, reservation, and roomservices. In the customers

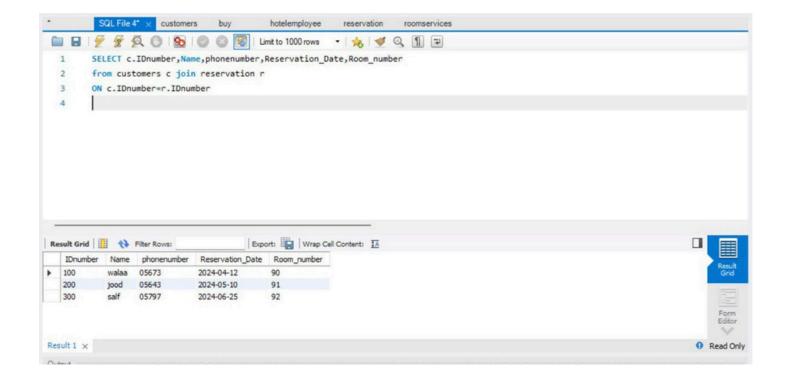
table, customer data such as ID number, phone number, name, email, and hotel employee ID number are recorded. The buy table contains purchase data including food code and customer ID number.

The hotelemployee table stores data of hotel employees like ID number, name, salary, date of birth, and job title. The reservation table allows hotel employees to reserve rooms for customers, recording reservation date, room number, expiration date, and SRnum.

The roomservices table includes information about available food items for purchase from the hotel's restaurant, such as food code, price, name, and description.

the system enables hotel employees to book rooms for customers while storing customer and employee data. Customers can also make purchases from the hotel's restaurant, with details of these transactions being recorded.

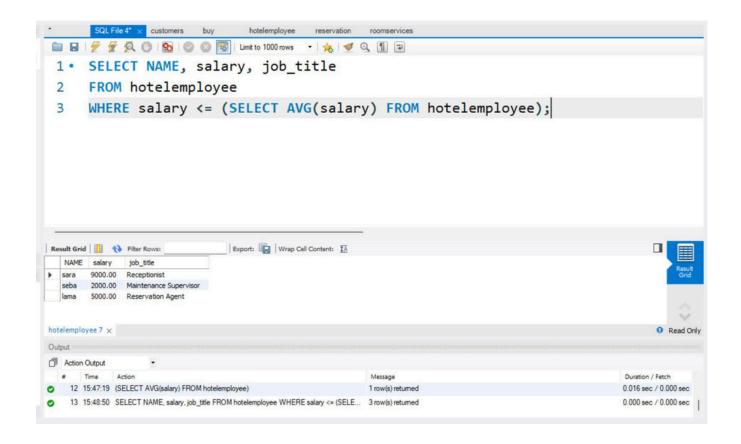
#### **Join**



Display the name, id number, phone number, from customers table, reservation date room number from reservation table

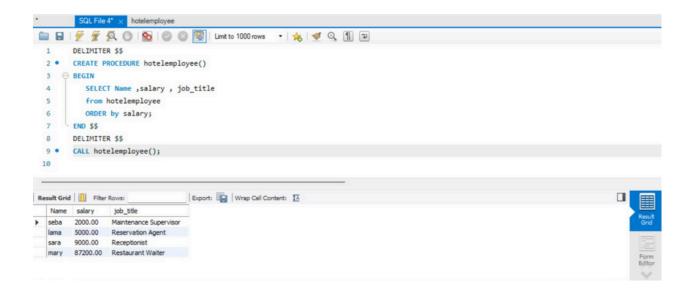
use a join operation based on the ID number to link the two tables together.

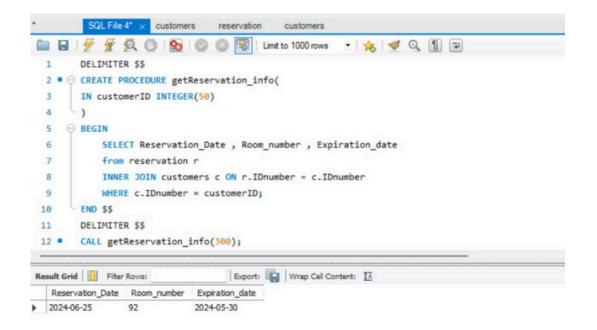
### subquery



Displays the name, salary and job\_title from the hotelemployee table
If their salary is less than or equal to the average salary

#### procedure





# trigger

```
DELIMITER SS
  2 • CREATE TRIGGER afterroomservicesUpdate
  3
        AFTER update ON roomservices
        FOR EACH ROW
  5 ⊝ BEGIN
           if OLD.price <> new.price then
  6
           INSERT INTO ChangePrice (Food_code , beforChange , afterChange , date)
  8
           VALUES (old.Food_code , old.price , new.price ,NOW());
       END if;
END $$
  9
 10
 11
        DELIMITER ;
 12
 13 • UPDATE roomservices
 14
        SET price = 20
       WHERE Food_code = 900
 15
16
```



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