

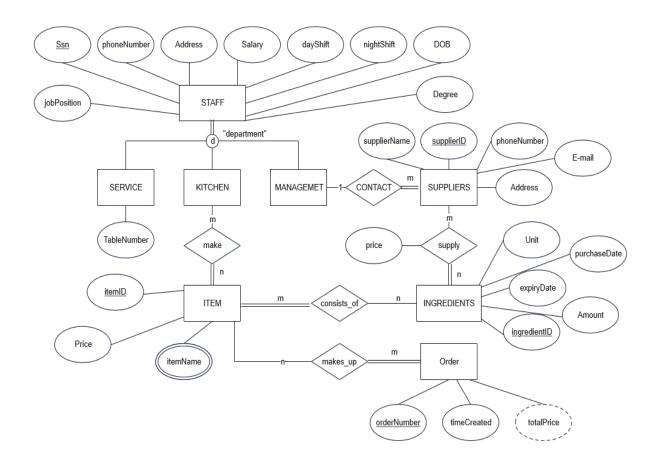
# Restaurant Management System Database

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Section	3	4	3	4	5
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Contribution	<ul><li>Problem statement.</li><li>DDL</li><li>Some queries</li></ul>	<ul><li>EER     Diagram,</li><li>some     queries</li><li>DDL</li></ul>	<ul><li>Relational diagram</li><li>DDL</li><li>Some queries</li></ul>	<ul><li>EER     Diagram</li><li>Some     queries</li><li>DDL</li></ul>	<ul><li>Relational diagram</li><li>Some queries</li><li>DDL</li></ul>

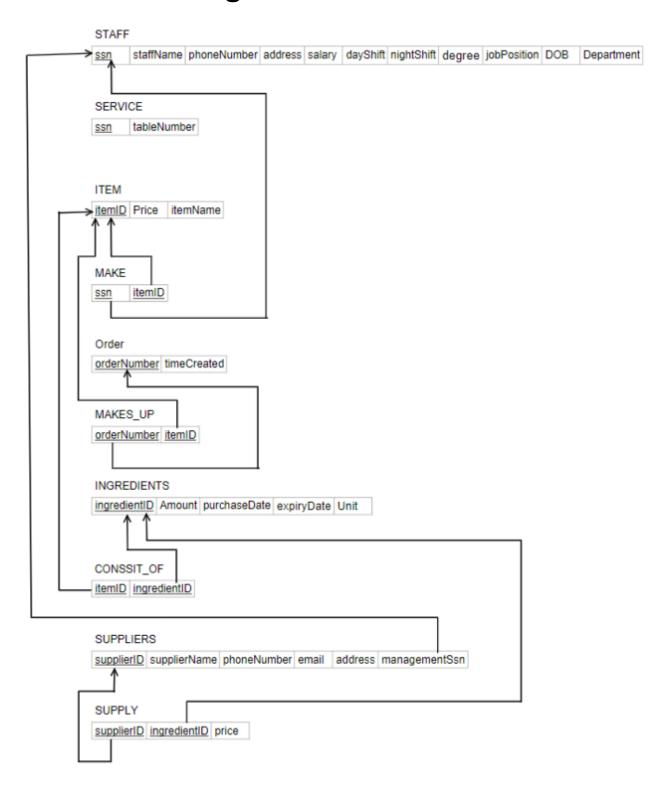
#### **Problem statement**

- A Restaurant Management System requires the use of a properly designed database.
- The Staff is divided into three main categories: kitchen staff, service staff, and management.
- The following data is required for each staff member: SSN, phone number, birthdate, address, salary, and time of shift.
- It is also required to keep a history of all the orders made; This includes the menu items of that order, the total bill, and its data and time.
- Each menu item is either a food or drink, it is known what ingredients are used to make it.
- The ingredients are supplied by various suppliers (companies, butchers, green grocers, fishmongers).
- Multiple suppliers for the same ingredient can exist in case of problems with one of them and price comparisons.
- Suppliers are contacted via phone or email. It should be known how much of an ingredient the restaurant has (in amount and units), and each item's purchase data and expiry date.

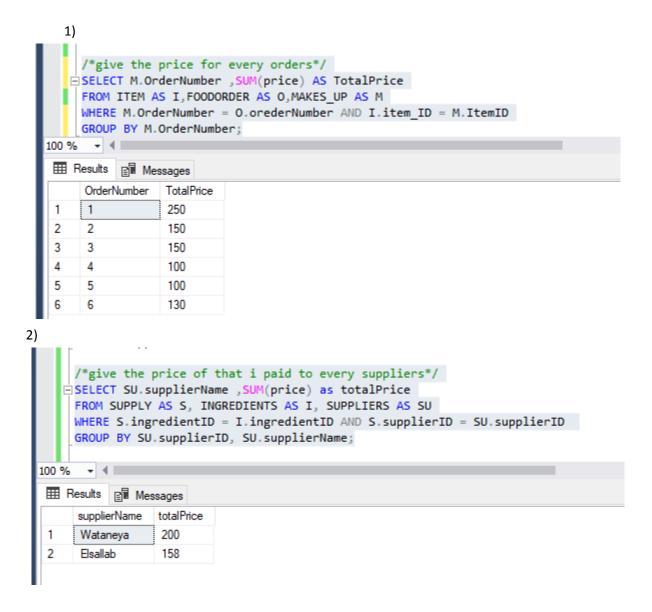
## **EER Diagram:**



### **Relational Diagram:**



#### Screenshots of some useful queries:



```
3)
           /*give the price of the ingredients that comes from el sallab*/
         SELECT I.ingredientID ,price,SU.supplierName
           FROM SUPPLY AS S, INGREDIENTS AS I, SUPPLIERS AS SU
          WHERE S.ingredientID = I.ingredientID AND S.supplierID = SU.supplierID
          AND SU.supplierName = 'Elsallab';
     100 % → ◀ ■
      Results 📳 Messages
           ingredientID
                           price
                                 supplierName
           Chicken spice blend
                           23
                                 Elsallab
       2
                                 Elsallab
           Meat
                            110
       3
                            15
                                 Elsallab
           Pepper
           Salt
                            10
                                 Elsallab
4)
              /*give the person that has the max salary*/
            SELECT staffName, salary as maxSalary/**/
              FROM STAFF
              WHERE salary in ( SELECT MAX(salary)
                                  fROM STAFF)
       100 % → ◀ Ⅱ
        Results Messages
              staffName
                              maxSalary
               Omar Abdallah
                               100000
5)
       /*give me the suppliers and the conents who works with the highst salary above than 10k*/
      SELECT supplierName , email
       From (SUPPLIERS AS I LEFT OUTER JOIN STAFF AS J
          ON I.managementSSN = J.ssn)
       WHERE J.salary>10000;
   100 % + 4
   Results Messages
```

supplierName

Wataneya

Elsallab

2

email

wataneya\_sales@gmail.com

sales@elsallab.com

5)

```
/*people works in night shift only */

SELECT staffName, salary

FROM STAFF
WHERE nightShift='yes' AND dayShift='no';

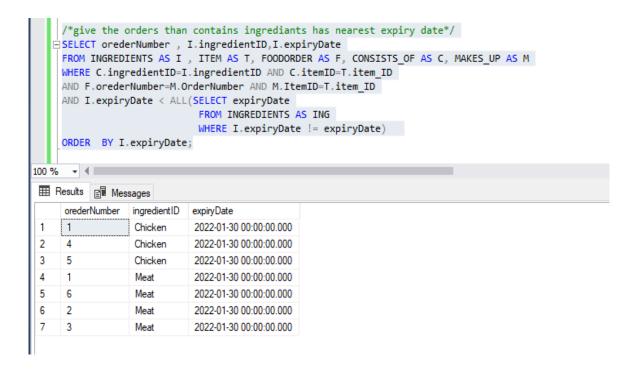
100 % 
Results

Messages

staffName salary

Mariam Hany 1000
```

6)

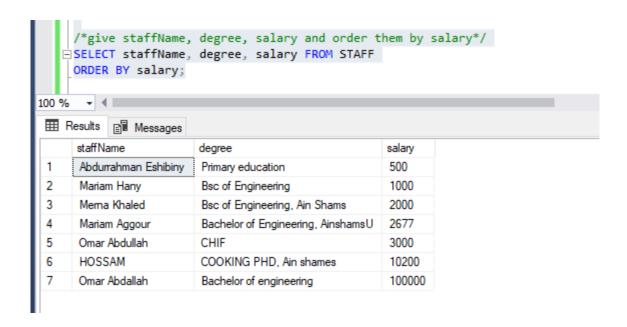


7)

```
/*give all dishes and drinks than contains k*/
     SELECT * FROM ITEM WHERE itemName LIKE '%K%'
100 % → ◀ ■
Results Resages
     item_ID
              price
                    itemName
              150
                    Kabab 1kg
 2
      2
              130
                    Kofta 1kg
 3
      3
              150
                    Mix 1kg
                    Grilled Chicken
              100
```

8)

9)



10)

/\*give all dishes and drinks and the people who make them and the price\*/

□ SELECT staffName, itemName as Dish,price FROM STAFF AS S,ITEM AS I, MAKE AS M

WHERE M.ssn=S.ssn AND M.itemID =I.item\_ID;



11)

