

# Occupations



**Pivot** the *Occupation* column in **OCCUPATIONS** so that each *Name* is sorted alphabetically and displayed underneath its corresponding *Occupation*. The output column headers should be *Doctor*, *Professor*, *Singer*, and *Actor*, respectively.

**Note:** Print **NULL** when there are no more names corresponding to an occupation.

## Input Format

The **OCCUPATIONS** table is described as follows:

Column	Type
<i>Name</i>	<i>String</i>
<i>Occupation</i>	<i>String</i>

*Occupation* will only contain one of the following values: **Doctor**, **Professor**, **Singer** or **Actor**.

## Sample Input

<i>Name</i>	<i>Occupation</i>
<i>Samantha</i>	<i>Doctor</i>
<i>Julia</i>	<i>Actor</i>
<i>Maria</i>	<i>Actor</i>
<i>Meera</i>	<i>Singer</i>
<i>Ashely</i>	<i>Professor</i>
<i>Ketty</i>	<i>Professor</i>
<i>Christeen</i>	<i>Professor</i>
<i>Jane</i>	<i>Actor</i>
<i>Jenny</i>	<i>Doctor</i>
<i>Priya</i>	<i>Singer</i>

## Sample Output

```
Jenny Ashley Meera Jane
Samantha Christeen Priya Julia
NULL Ketty NULL Maria
```

## Explanation

The first column is an alphabetically ordered list of Doctor names.

The second column is an alphabetically ordered list of Professor names.

The third column is an alphabetically ordered list of Singer names.

The fourth column is an alphabetically ordered list of Actor names.

The empty cell data for columns with less than the maximum number of names per occupation (in this case, the Professor and Actor columns) are filled with **NULL** values.

```

set @r1=0, @r2=0, @r3=0, @r4=0;
select
    min(Doctor)
    , min(Professor)
    , min(Singer)
    , min(Actor)
from
    (
        select
            case
                when Occupation='Doctor'
                    then (@r1:=@r1+1)
                when Occupation='Professor'
                    then (@r2:=@r2+1)
                when Occupation='Singer'
                    then (@r3:=@r3+1)
                when Occupation='Actor'
                    then (@r4:=@r4+1)

            end as RowNumber
        , case
                when Occupation='Doctor'
                    then Name

            end as Doctor
        , case
                when Occupation='Professor'
                    then Name

            end as Professor
        , case
                when Occupation='Singer'
                    then Name

            end as Singer
        , case
                when Occupation='Actor'
                    then Name

            end as Actor
        from
            OCCUPATIONS

        order by
            Name

    )
temp
group by
    RowNumber
;

```