UNIVERSITY INSTITUTE of COMPUTING
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NAAC GRADE A+ ACCREDITED UNIVERSITY

Experiment 2.3

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Subject Name: ADBMS **Subject Code: 22CAP-647**

1) Task to be done:

Generate the following two result sets:

1. Query an alphabetically ordered list of all names in OCCUPATIONS, immediately followed by the first letter of each profession as a parenthetical (i.e.: enclosed in parentheses).
   For example: AnActorName(A), ADoctorName(D), AProfessorName(P), and ASingerName(S).

2. Query the number of ocurrences of each occupation in OCCUPATIONS. Sort the occurrences in ascending order, and output them in the following format:

There are a total of [occupation_count] [occupation]s.
where [occupation_count] is the number of occurrences of an occupation in OCCUPATIONS and [occupation] is the lowercase occupation name. If more than one Occupation has the same [occupation_count], they should be ordered alphabetically.

Note: There will be at least two entries in the table for each type of occupation.

Input Format
The OCCUPATIONS table is described as follows:

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

Column	Type
Name	String
Occupation	String

Sample Input

An OCCUPATIONS table that contains the following records:

Sample Output

Ashely(P)
Christeen(P)
Jane(A)
Jenny(D)
Julia(A)
Ketty(P)
Maria(A)
Meera(S)
Priya(S)
Samantha(D)

There are a total of 2 doctors.
There are a total of 2 singers.
There are a total of 3 actors.
There are a total of 3 professors.

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

Implement the above experiment and submit it

Query 1 :

```
mysql> select CONCAT(CONCAT(CONCAT(Name,"("),substr(Occupation,1,1)),")")
-> as "Name(Occupation)" from Occupation order by Occupation;
+------------------+
| Name(Occupation) |
+------------------+
| Julia(A)         |
| Maria(A)         |
| Jane(A)          |
| Samantha(D)      |
| Jenny(D)         |
| Ashely(P)        |
| Ketty(P)         |
| Christeen(P)     |
| Meera(S)         |
| Priya(S)         |
+------------------+
10 rows in set (0.00 sec)
```

Query 2 :

```
mysql> select CONCAT("There are a total of ",count(Occupation)," 
",lower(Occupation)) as "No of ManForce in Every Occupation" from Occupation
    -> group by Occupation
    -> order by count(Occupation),Occupation;

+-----------------------------------+
| No of ManForce in Every Occupation |
+-----------------------------------+
| There are a total of 2 doctor      |
| There are a total of 2 singer      |
| There are a total of 3 actor       |
| There are a total of 3 professor   |
+-----------------------------------+
4 rows in set (0.00 sec)
```

2) Learning outcomes (What I have learnt):

i) **Learn about Aggregate function**

ii) **Learn about group by clause**

iii) **Learn about having clause with aggregate functions**

Evaluation Grid:

Sr. No.	Parameters	Marks Obtained	Maximum Marks
1.	Demonstration and Performance (Quiz)		22
2.	Worksheet		8