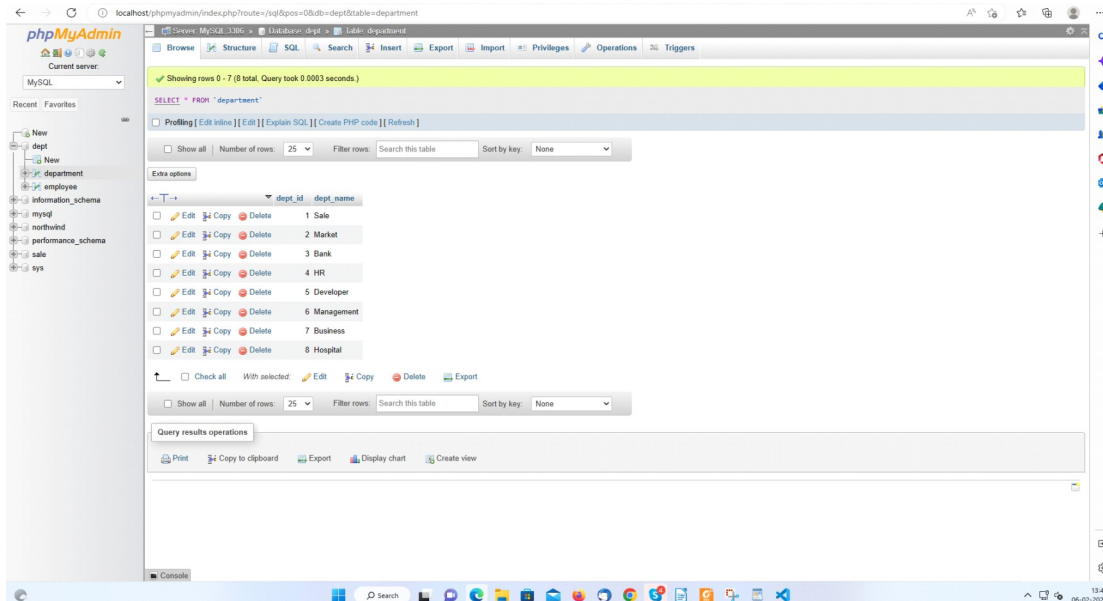


## Assignment 3 : Retrieve data using Group By clause

### Sample table1:Department

-dept\_id

-dept\_name



The screenshot shows the phpMyAdmin interface for a MySQL database. The 'Department' table is selected, and its structure is displayed. The table has two columns: 'dept\_id' and 'dept\_name'. The data is as follows:

dept_id	dept_name
1	Sale
2	Market
3	Bank
4	HR
5	Developer
6	Management
7	Business
8	Hospital

### Sample table2: Employee

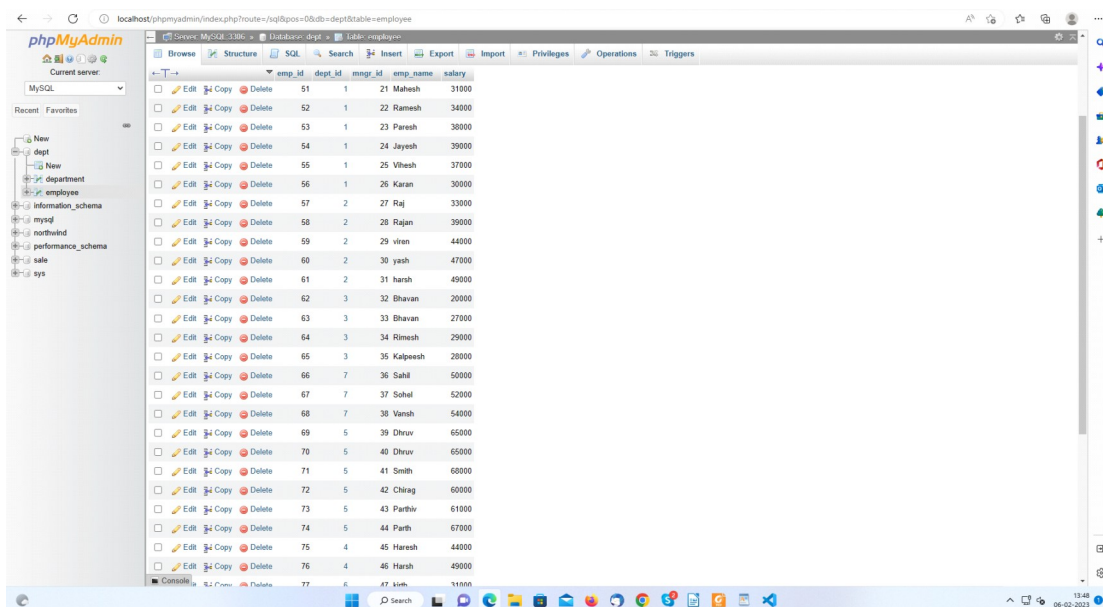
-emp\_id

-dept\_id

-mngnr\_id

-emp\_name

-salary

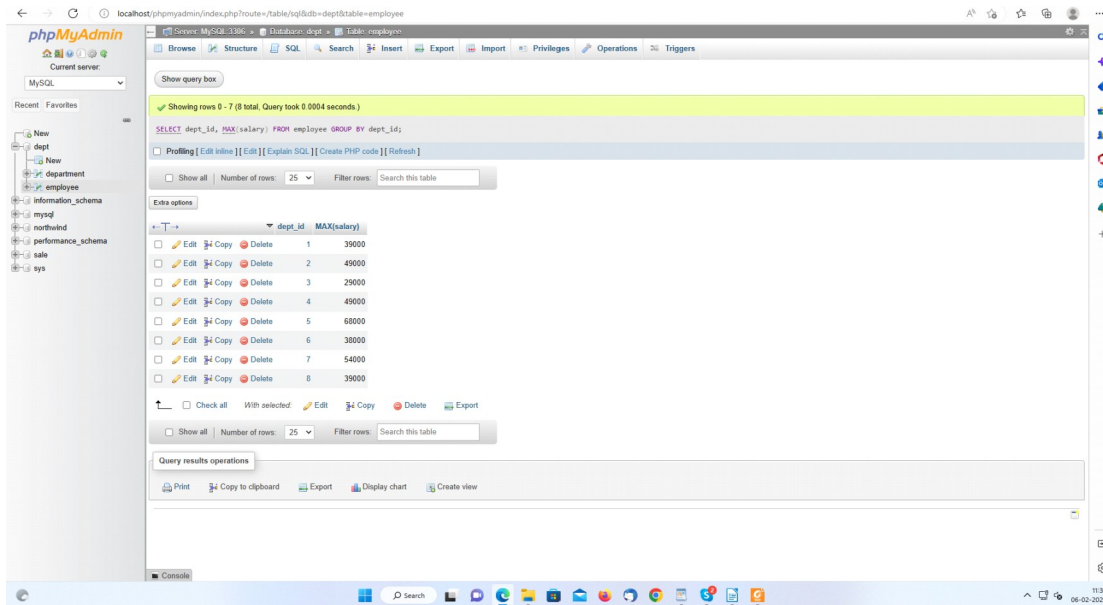


The screenshot shows the phpMyAdmin interface for a MySQL database. The 'Employee' table is selected, and its structure is displayed. The table has five columns: 'emp\_id', 'dept\_id', 'mngnr\_id', 'emp\_name', and 'salary'. The data is as follows:

emp_id	dept_id	mngnr_id	emp_name	salary
51	1	21	Maresh	31000
52	1	22	Ramesh	34000
53	1	23	Pareesh	38000
54	1	24	Jayesh	39000
55	1	25	Vibesh	37000
56	1	26	Karan	30000
57	2	27	Raj	33000
58	2	28	Rajan	39000
59	2	29	viren	44000
60	2	30	yash	47000
61	2	31	harsh	49000
62	3	32	Bhavan	20000
63	3	33	Bhavan	27000
64	3	34	Rimesh	29000
65	3	35	Kalpesh	28000
66	7	36	Sahil	50000
67	7	37	Sohal	52000
68	7	38	Vansh	54000
69	5	39	Dhruv	65000
70	5	40	Dhruv	65000
71	5	41	Smith	68000
72	5	42	Chirag	60000
73	5	43	Parthiv	61000
74	5	44	Parth	67000
75	4	45	Hareesh	44000
76	4	46	Harsh	49000
77	6	47	kirn	11000

1. write a SQL query to find Employees who have the biggest salary in their Department

SELECT dept\_id, MAX(salary) FROM employee GROUP BY dept\_id;



Showing rows 0 - 7 (8 total, Query took 0.0004 seconds)

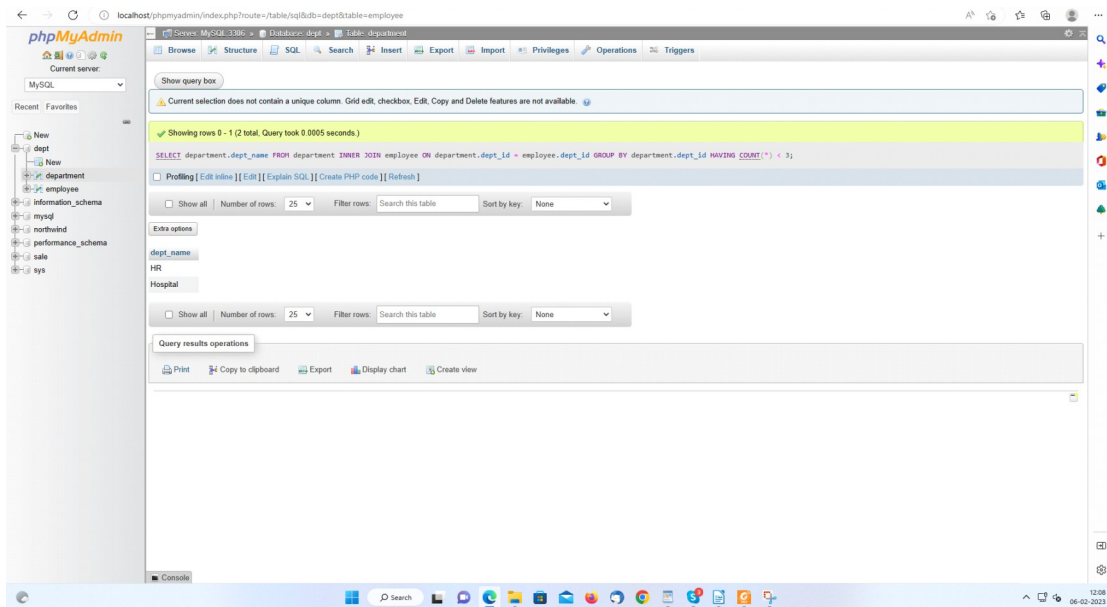
```
SELECT dept_id, MAX(salary) FROM employee GROUP BY dept_id;
```

Query results operations: Print, Copy to clipboard, Export, Display chart, Create view

	dept_id	MAX(salary)
<input type="checkbox"/>	1	39000
<input type="checkbox"/>	2	49000
<input type="checkbox"/>	3	29000
<input type="checkbox"/>	4	49000
<input type="checkbox"/>	5	60000
<input type="checkbox"/>	6	30000
<input type="checkbox"/>	7	54000
<input type="checkbox"/>	8	39000

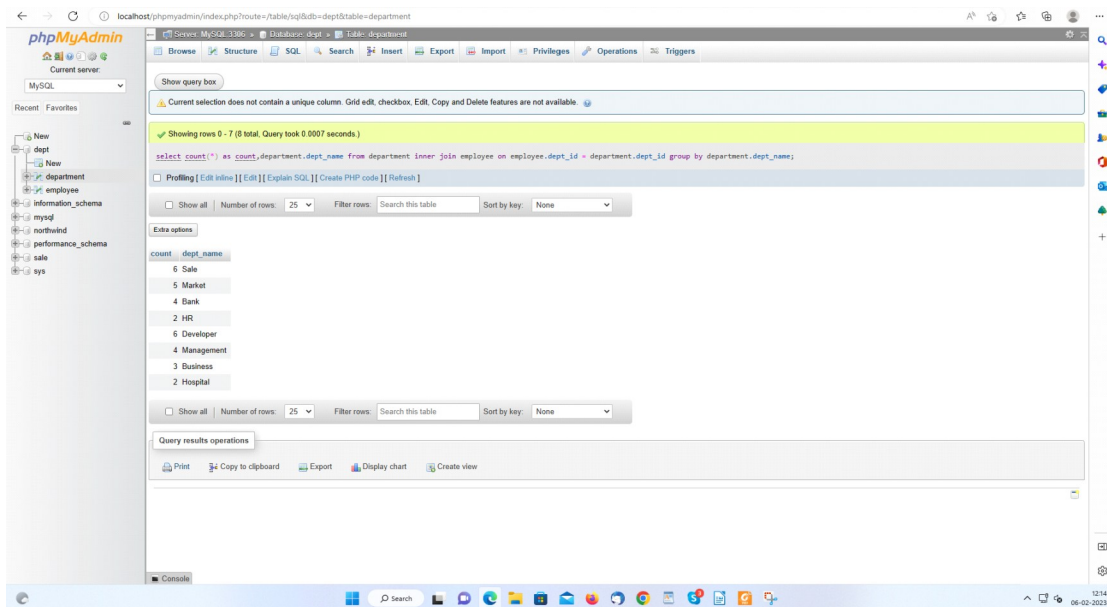
2. write a SQL query to find Departments that have less than 3 people in it

SELECT department.dept\_name FROM department INNER JOIN employee ON department.dept\_id = employee.dept\_id GROUP BY department.dept\_id HAVING COUNT(\*) < 3;



3. write a SQL query to find All Department along with the number of people there

SELECT COUNT(\*) as count, department.dept\_name from department INNER JOIN employee ON employee.dept\_id = department.dept\_id GROUP BY department.dept\_name;



4. write a SQL query to find All Department along with the total salary there

SELECT department.dept\_name, SUM(salary) FROM department INNER JOIN employee on department.dept\_id=employee.dept\_id GROUP BY department.dept\_id;

phpMyAdmin

Current server: MySQL

Recent Favorites

- New
- dept
- New
- department
- employee
- information\_schema
- mysql
- northwind
- performance\_schema
- safe
- sys

Database: dept v Table: employee

Browse Structure SQL Search Insert Export Import Privileges Operations Triggers

Show query box

Current selection does not contain a unique column. Grid edit, checkbox, Edit, Copy and Delete features are not available.

Showing rows 0 - 7 (8 total, Query took 0.0005 seconds)

```
SELECT employee.emp_name, MAX(salary) FROM department INNER JOIN employee ON department.dept_id=employee.dept_id GROUP BY department.dept_id;
```

☐ Profiling [\[ Edit inline \]](#) [\[ Edit \]](#) [\[ Explain SQL \]](#) [\[ Create PHP code \]](#) [\[ Refresh \]](#)

☐ Show all | Number of rows: 25 | Filter rows: Search this table

Extra options

emp_name	MAX(salary)
Maresh	39000
Raj	49000
Bhavan	29000
Sahil	54000
Dhruv	68000
Hareesh	49000
kirth	38000
vraj	39000

☐ Show all | Number of rows: 25 | Filter rows: Search this table

Query results operations

[Print](#) [Copy to clipboard](#) [Export](#) [Display chart](#) [Create view](#)

Console

12:45 06-02-2023