

# **LAB # 05**

**MUHAMMAD ANAS**

(CS221004)

```

44
45 -- 1
46
47 • SELECT d.deptName,
48         COUNT(e.emp_ID) AS NUM_Employees,
49         MAX(e.salary) AS MAX_Salary
50 FROM Department d
51 LEFT JOIN Employee e ON d.deptID = e.deptID
52 GROUP BY d.deptName;
53

```

<			
Result Grid    Filter Rows:   Export:    Wrap Cell Content:			
	deptName	NUM_Employees	MAX_Salary
▶	CS	0	NULL
	MS	2	60000.00
	ME	2	52000.00
	AI	2	55000.00
	BBA	0	NULL
Result 4 x			
Output			
Action Output			
#	Time	Action	Message
✓ 38	23:40:08	SELECT * FROM lab_05_assignment.department LIMIT 0, 1000	7 row(s) returned
✓ 39	23:40:16	SELECT * FROM lab_05_assignment.employee LIMIT 0, 1000	6 row(s) returned
✓ 40	01:15:31	SELECT d.deptName, COUNT(e.emp_ID) AS numEmployees, MAX(e.salary) AS maxSalary FROM Dep...	7 row(s) returned
✓ 41	01:16:13	SELECT d.deptName, COUNT(e.emp_ID) AS NUM_Employees, MAX(e.salary) AS MAX_Salary FROM...	7 row(s) returned

```

54      -- 2
55
56 •   SELECT e.emp_ID,
57          e.emp_Name,
58          d.deptName AS designation,
59          e.salary
60 FROM Employee e
61 INNER JOIN Department d ON e.deptID = d.deptID
62 ORDER BY e.salary
63 LIMIT 1;
64

```

Result Grid				
Filter Rows: <input type="text"/>				
Export:    Wrap Cell Content:    Fetch rows:				
emp_ID	emp_Name	designation	salary	
2	Bilal	ME	45000.00	

Result 5		
Output		
Action Output		
#	Time	Action
✓ 39	23:40:16	SELECT * FROM lab_05_assignment.employee LIMIT 0, 1000
✓ 40	01:15:31	SELECT d.deptName, COUNT(e.emp_ID) AS numEmployees, MAX(e.salary) AS maxSalary FROM Dep.
✓ 41	01:16:13	SELECT d.deptName, COUNT(e.emp_ID) AS NUM_Employees, MAX(e.salary) AS MAX_Salary FROM..
✓ 42	01:25:42	SELECT e.emp_ID, e.emp_Name, d.deptName AS designation, e.salary FROM Employee e INNE..

```

65  -- 3
66
67  • SELECT d.deptName AS designation,
68         e.emp_Name AS employeeName
69  FROM Department d
70  LEFT JOIN Employee e ON d.deptID = e.deptID
71  ORDER BY d.deptName;
72
73


```

Result Grid   Filter Rows:  Export:  Wrap Cell Content: 

	designation	employeeName
▶	ACF	NULL
	AI	Anas
	AI	Faizan
	AML	NULL
	BBA	NULL

Result 17 ×

Output

 Action Output

	#	Time	Action	Message
✓	51	01:37:45	SELECT d.deptName AS department, e.emp_Name AS employeeName FROM Department d LEFT JOIN E...	10 row(s) returned
✓	52	01:38:31	SELECT d.deptName AS Department, IFNULL(e.emp_Name, 'NULL') AS Employee_Name FROM Departm...	10 row(s) returned
✓	53	01:38:42	SELECT d.deptName AS department, e.emp_Name AS employeeName FROM Department d LEFT JOIN E...	10 row(s) returned
✓	54	01:39:45	SELECT d.deptName AS designation, e.emp_Name AS employeeName FROM Department d LEFT JOIN E...	10 row(s) returned

```

72
73 -- 4
74
75 • SELECT d.deptName AS country,
76       COUNT(d.deptID) AS Total_Depart
77 FROM Department d
78 GROUP BY d.deptName
79 HAVING COUNT(d.deptID) > 2;
80

```


<

Result Grid   Filter Rows:  | Export:  | Wrap Cell Content: 

country	Total_Depart
---------	--------------

Result 9 x

Output

 Action Output

#	Time	Action
✓ 43	01:28:59	SELECT d.deptName AS designation, IFNULL(e.emp_Name, 'No employee assigned') AS employeeName ...
✓ 44	01:29:33	SELECT d.deptName AS designation, IFNULL(e.emp_Name, 'NULL') AS employeeName FROM Departme...
✓ 45	01:30:40	SELECT d.deptName AS country, COUNT(d.deptID) AS totalDepartments FROM Department d GROUP B...
✓ 46	01:32:09	SELECT d.deptName AS country, COUNT(d.deptID) AS Total_Depart FROM Department d GROUP BY d...

```

81  -- 5
82
83  • SELECT DISTINCT d.deptName AS city
84  FROM Department d
85  INNER JOIN Employee e ON d.deptID = e.deptID;
86

```

Result Grid Filter Rows:  Export: Wrap Cell Content:

city
MS
ME
AI

Result 10 ×

Output

Action Output ▾

#	Time	Action	Message
✓ 44	01:29:33	SELECT d.deptName AS designation, IFNULL(e.emp_Name, 'NULL') AS employeeName FROM Departme...	10 row(s) returned
✓ 45	01:30:40	SELECT d.deptName AS country, COUNT(d.deptID) AS totalDepartments FROM Department d GROUP B...	0 row(s) returned
✓ 46	01:32:09	SELECT d.deptName AS country, COUNT(d.deptID) AS Total_Depart FROM Department d GROUP BY d....	0 row(s) returned
✓ 47	01:32:48	SELECT DISTINCT d.deptName AS city FROM Department d INNER JOIN Employee e ON d.deptID = e.deptl...	3 row(s) returned

```

87  -- 6
88
89  • SELECT d.deptName AS department,
90         e.emp_Name AS employeeName
91  FROM Department d
92  LEFT JOIN Employee e ON d.deptID = e.deptID
93  ORDER BY d.deptName;
94

```

Result Grid Filter Rows:  Export: Wrap Cell Content:

department	employeeName
CS	NULL
ME	Bilal
ME	Kamran
MS	Talha
MS	Ali

Result 16 ×

Output

Action Output ▾

#	Time	Action	Message
✓ 50	01:35:14	SELECT d.deptName AS Department, IFNULL(e.emp_Name, 'NULL') AS Employee_Name FROM Departm...	10 row(s) returned
✓ 51	01:37:45	SELECT d.deptName AS department, e.emp_Name AS employeeName FROM Department d LEFT JOIN E...	10 row(s) returned
✓ 52	01:38:31	SELECT d.deptName AS Department, IFNULL(e.emp_Name, 'NULL') AS Employee_Name FROM Departm...	10 row(s) returned
✓ 53	01:38:42	SELECT d.deptName AS department, e.emp_Name AS employeeName FROM Department d LEFT JOIN E...	10 row(s) returned