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**Department of Computing and Information System**

**Faculty of Science & Information Technology**

**Semester Assignment, Fall 2023**

**Course Code: CIS 222L**

**Course Title: Database Management System and Lab**

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**ID:221-16-641**

**LAB PART**

**(a) Develop a database based on normalized tables and show the results through**

**screenshots.**

**Answer:**

Developing a database based on normalized tables and showing the results through screenshots.

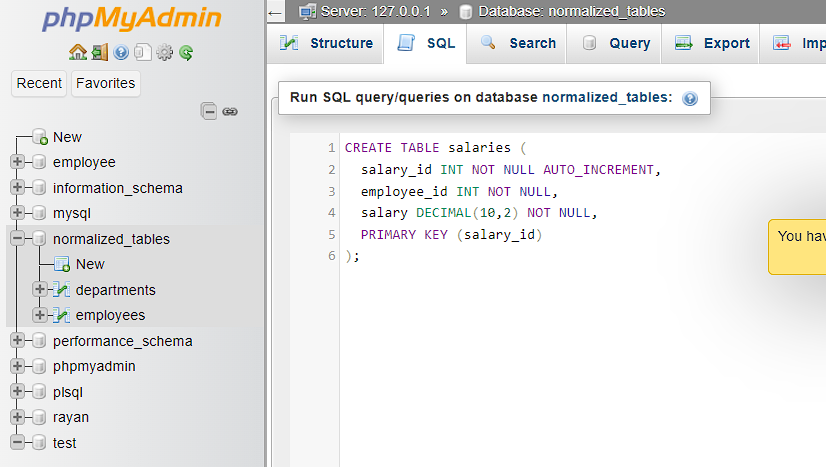
Step:-1

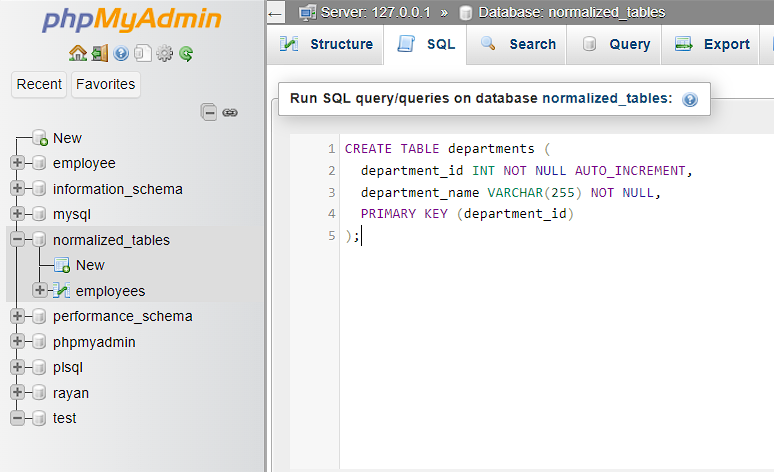
At first creating the normalized tables sequentially.

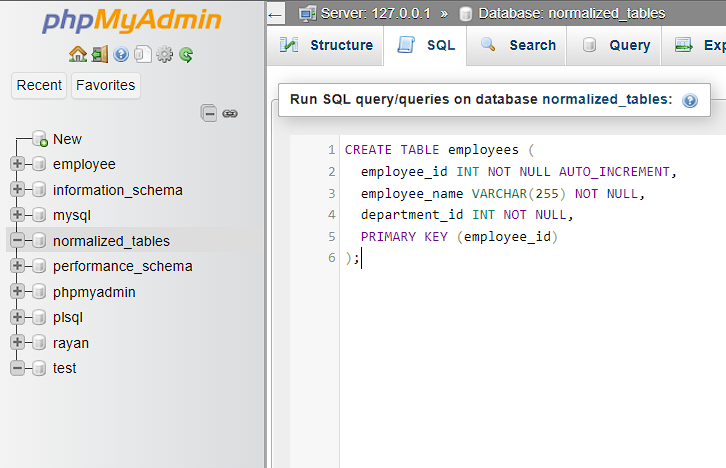
1: Salaries table

2: Departments table

3: Employees

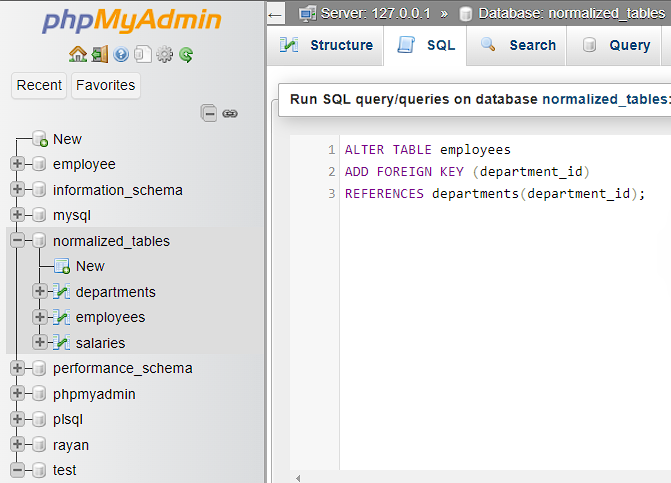


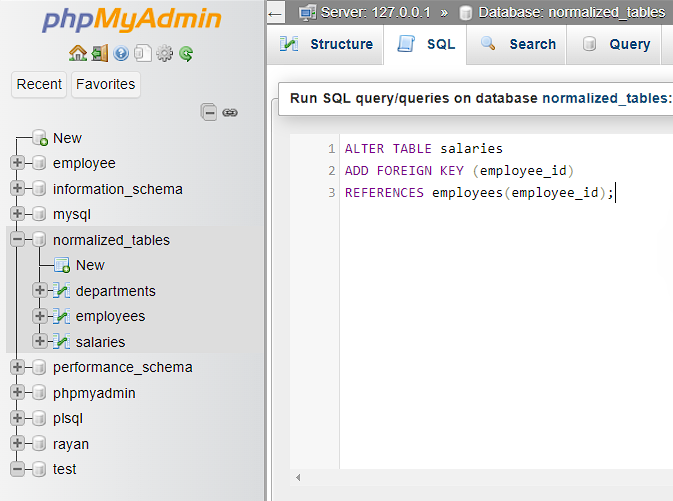




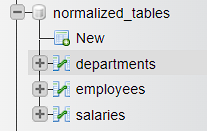
Step:-2

Adding foreign keys with the appropriate refereneces





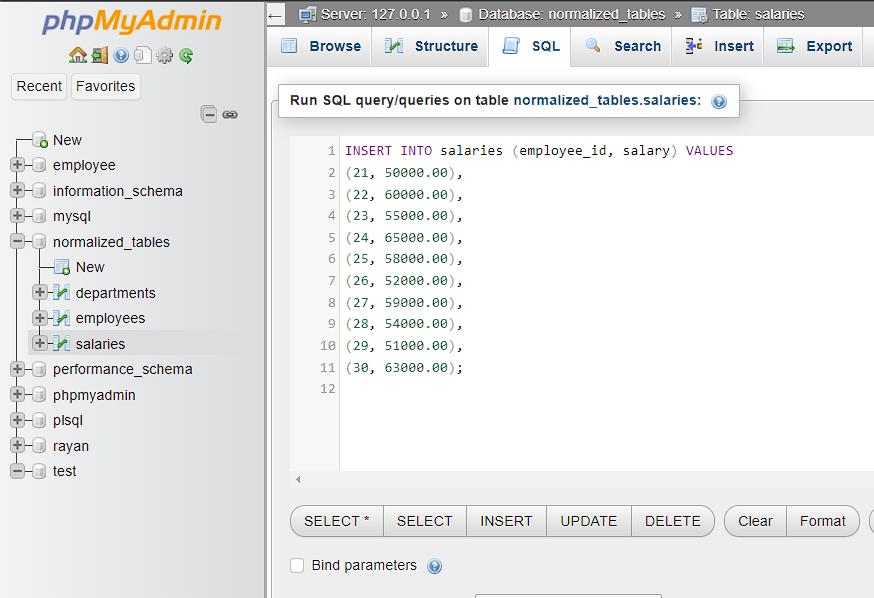
And here we can see that under “Normalized tables” database there are normalized tables.

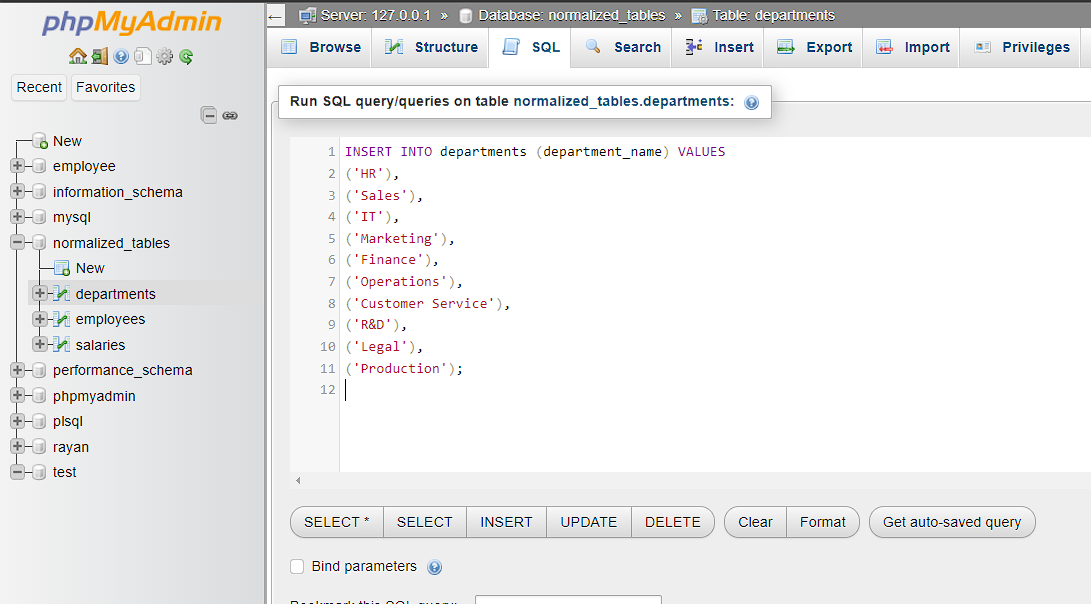


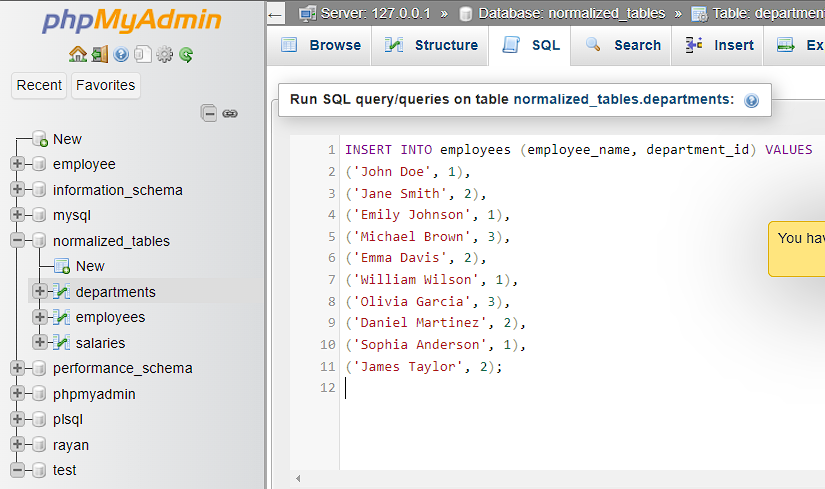
**(b) Insert at least 10 entities in each table.**

**Answer:**

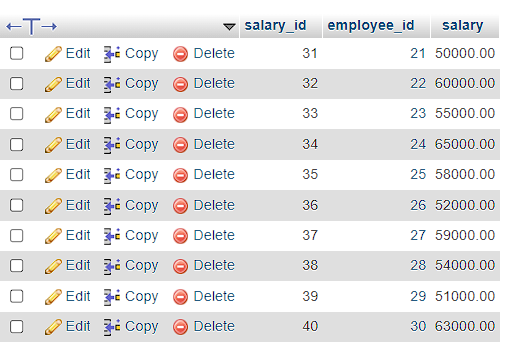
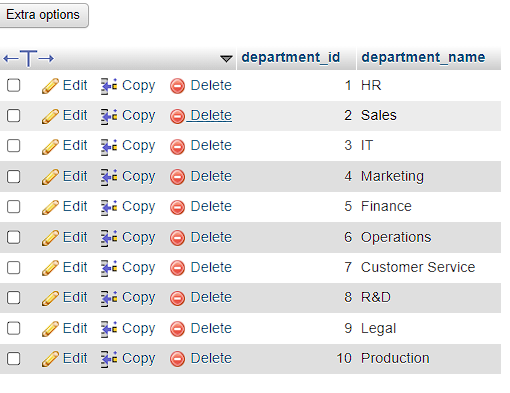
Inserting at least 10 entities in each table





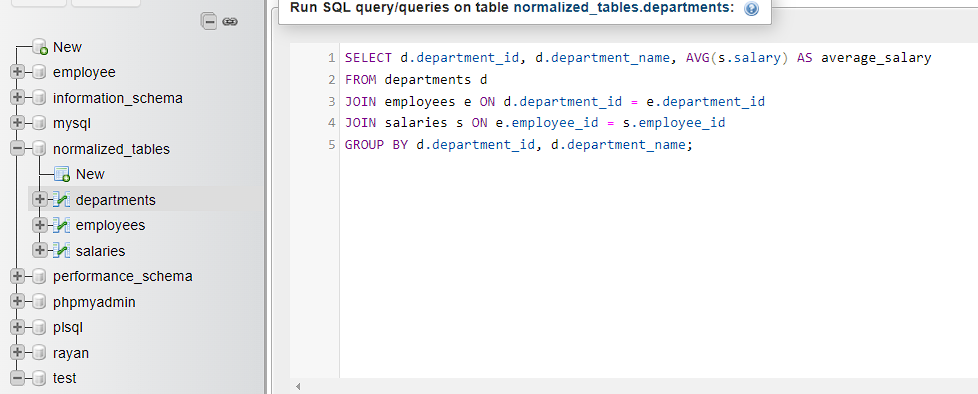


**Out-put with screenshots**

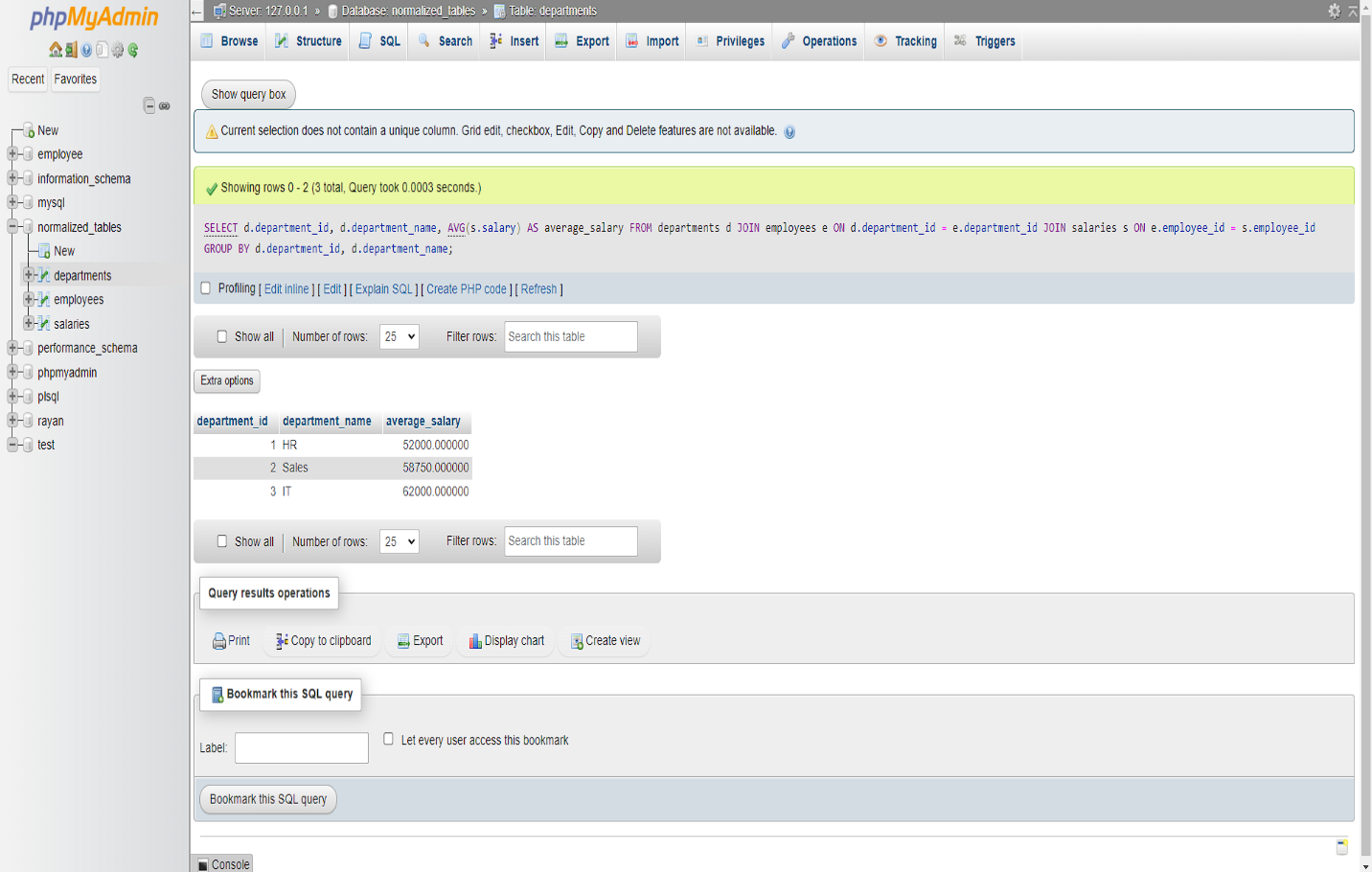
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**(c) Write a query to show average salary of employee each department.**

**Answer:**



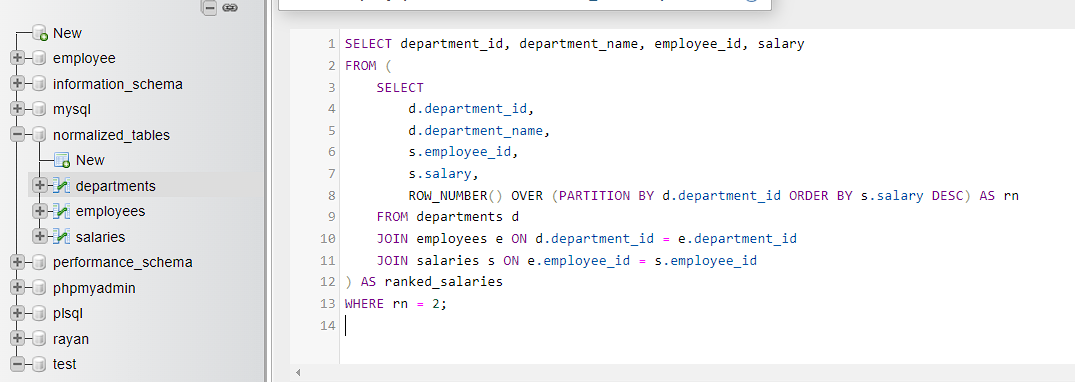
Out-Put:



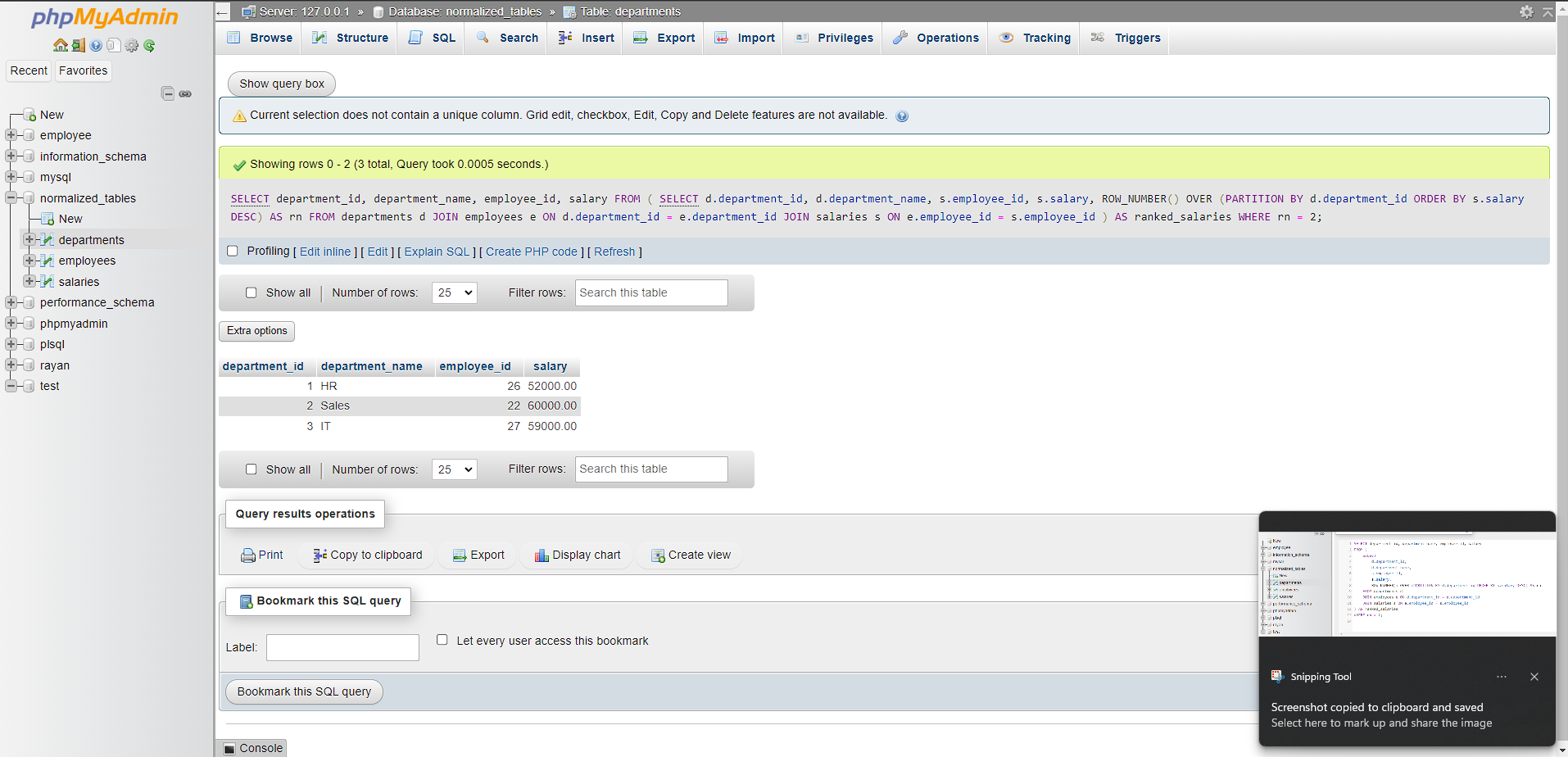
**(d) Write a query to show second maximum salary of employee each department.**

**Answer:**

**Input:**



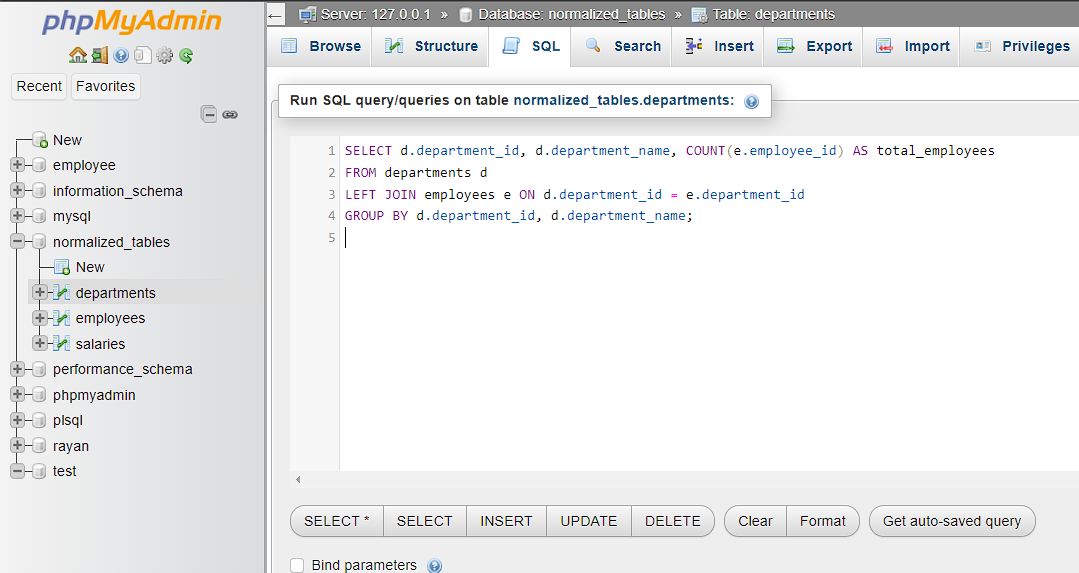
Out-put:



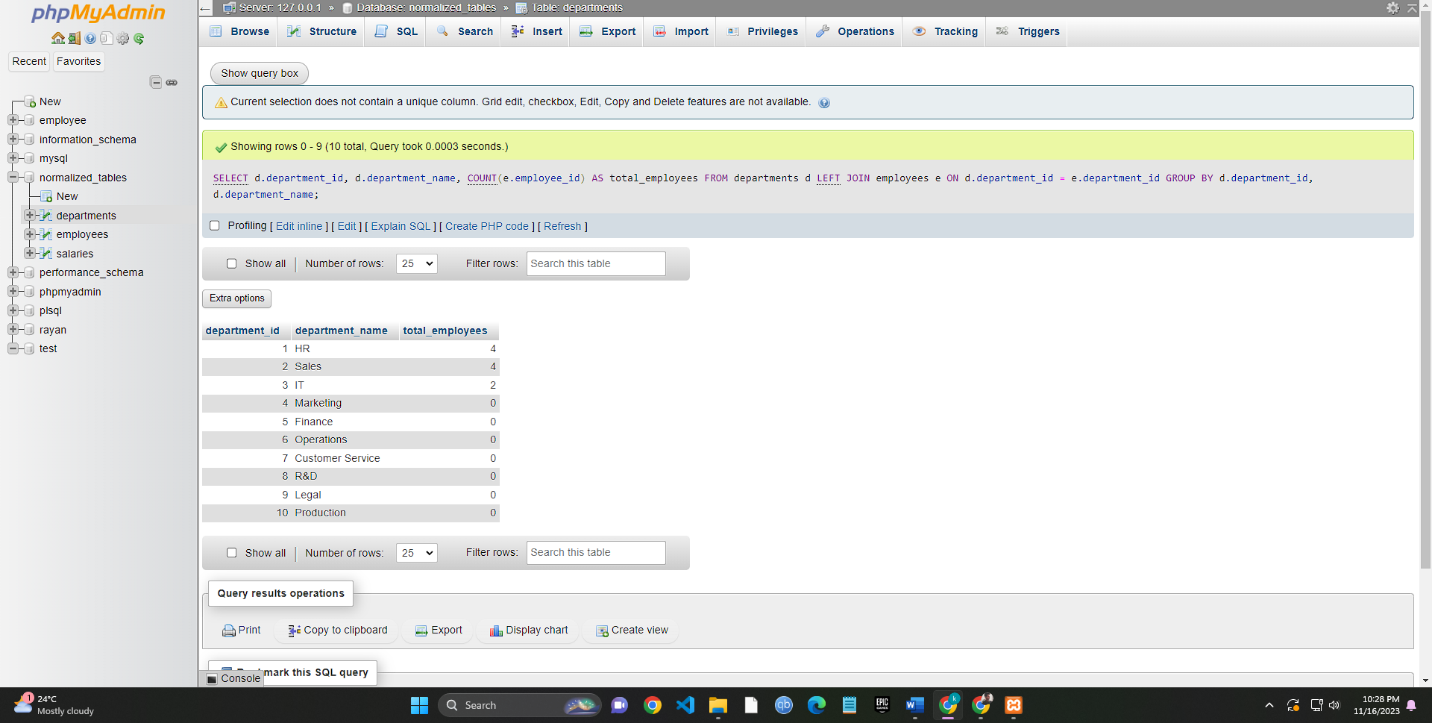
**(e) Write a query to show total number of employee in each department.**

**Answer:**

**Input:**

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**Output:**

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