

## HomeWork- 4

1.

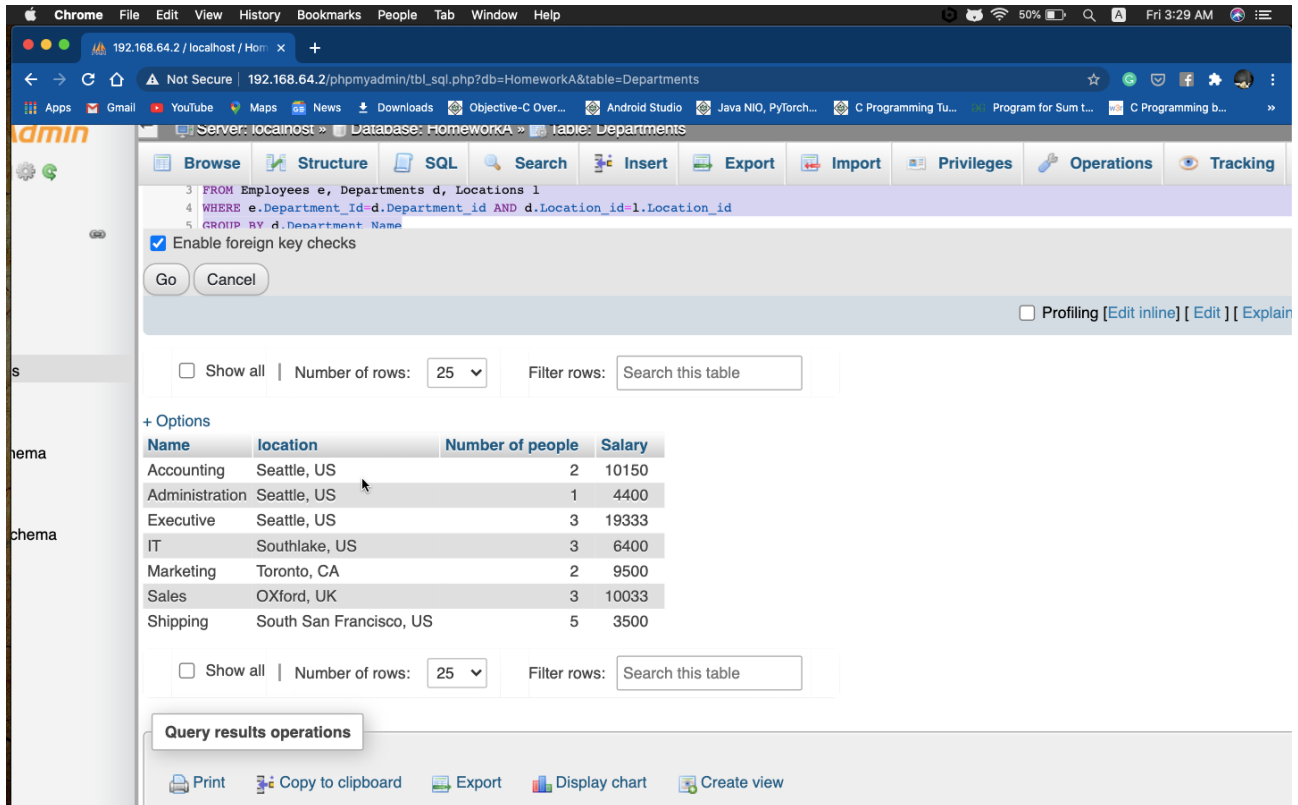
```
SELECT Last_Name,MIN(Salary),
MAX(Salary),AVG(Salary),SUM(Salary)
FROM Employees
GROUP BY Job_Id
```

	Last_Name	MIN(Salary)	MAX(Salary)	AVG(Salary)	SUM(Salary)
<input type="checkbox"/>	Gietz	8300	8300	8300.0000	8300
<input type="checkbox"/>	Higgins	12000	12000	12000.0000	12000
<input type="checkbox"/>	Whalem	4400	4400	4400.0000	4400
<input type="checkbox"/>	King	24000	24000	24000.0000	24000
<input type="checkbox"/>	Kochar	17000	17000	17000.0000	34000
<input type="checkbox"/>	Hunold	4200	9000	6400.0000	19200
<input type="checkbox"/>	Hartstein	13000	13000	13000.0000	13000
<input type="checkbox"/>	Fay	6000	6000	6000.0000	6000
<input type="checkbox"/>		7000	10500	8700.0000	26100
<input type="checkbox"/>	Abel	11000	11000	11000.0000	11000
<input type="checkbox"/>	Rajs	2500	3500	2925.0000	11700
<input type="checkbox"/>	Mourgos	5800	5800	5800.0000	5800

2.

3.

```
SELECT d.Department_Name "Name", CONCAT(l.city, ", ", l.country_id) "location",
COUNT(e.employee_id) "Number of people", ROUND( AVG(e.salary)) "Salary"
FROM Employees e, Departments d, Locations l
WHERE e.Department_Id=d.Department_id AND d.Location_id=l.Location_id
GROUP BY d.Department_Name
```



The screenshot shows the phpMyAdmin interface with the following SQL query entered in the SQL tab:

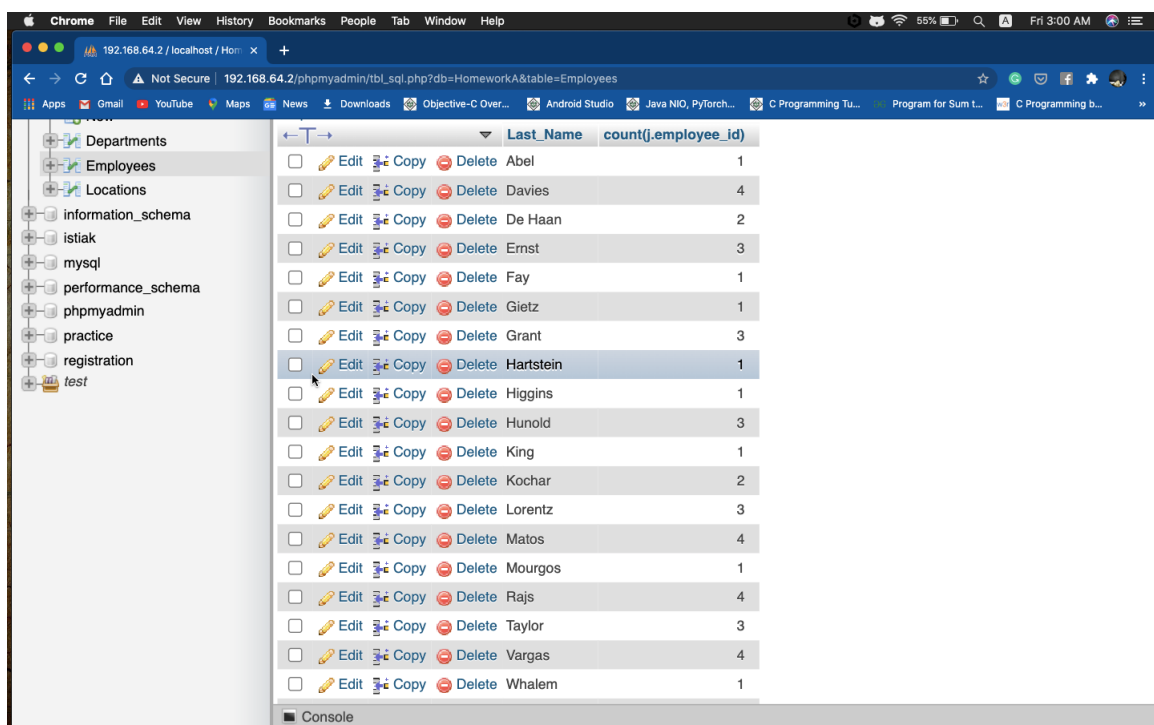
```
FROM Employees e, Departments d, Locations l
WHERE e.Department_Id=d.Department_id AND d.Location_id=1.Location_id
GROUP BY d.Department_Name
```

The query results are displayed in a table with the following data:

Name	location	Number of people	Salary
Accounting	Seattle, US	2	10150
Administration	Seattle, US	1	4400
Executive	Seattle, US	3	19333
IT	Southlake, US	3	6400
Marketing	Toronto, CA	2	9500
Sales	OXford, UK	3	10033
Shipping	South San Francisco, US	5	3500

4.

```
SELECT e.Last_Name, COUNT(j.employee_id)
FROM Employees e, Employees j
WHERE j.job_id = e.job_id
GROUP BY e.last_name
```



The screenshot shows the phpMyAdmin interface with the following SQL query entered in the SQL tab:

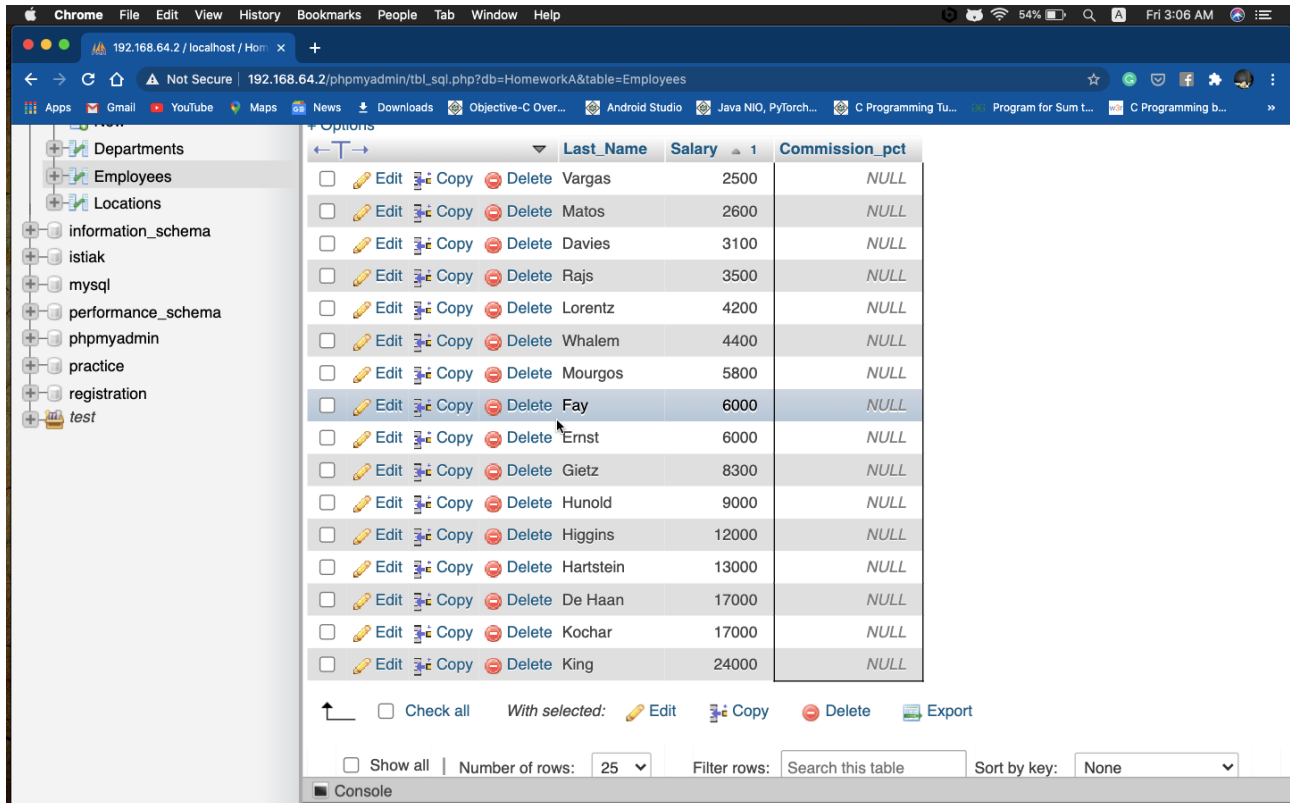
```
SELECT e.Last_Name, COUNT(j.employee_id)
FROM Employees e, Employees j
WHERE j.job_id = e.job_id
GROUP BY e.last_name
```

The query results are displayed in a table with the following data:

Last_Name	count(j.employee_id)
Abel	1
Davies	4
De Haan	2
Ernst	3
Fay	1
Gietz	1
Grant	3
Hartstein	1
Higgins	1
Hunold	3
King	1
Kochar	2
Lorentz	3
Matos	4
Mourgos	1
Rajs	4
Taylor	3
Vargas	4
Whalem	1

5.

```
SELECT Last_Name, Salary, Commission_pct
FROM Employees
WHERE Commission_pct IS NULL
ORDER BY Salary
```



	Last_Name	Salary	Commission_pct
<input type="checkbox"/>	Vargas	2500	NULL
<input type="checkbox"/>	Matos	2600	NULL
<input type="checkbox"/>	Davies	3100	NULL
<input type="checkbox"/>	Rajs	3500	NULL
<input type="checkbox"/>	Lorentz	4200	NULL
<input type="checkbox"/>	Whalem	4400	NULL
<input type="checkbox"/>	Mourgos	5800	NULL
<input type="checkbox"/>	Fay	6000	NULL
<input type="checkbox"/>	Ernst	6000	NULL
<input type="checkbox"/>	Gietz	8300	NULL
<input type="checkbox"/>	Hunold	9000	NULL
<input type="checkbox"/>	Higgins	12000	NULL
<input type="checkbox"/>	Hartstein	13000	NULL
<input type="checkbox"/>	De Haan	17000	NULL
<input type="checkbox"/>	Kocher	17000	NULL
<input type="checkbox"/>	King	24000	NULL