

Php - - Assignment

+

Topic – SQL Task-1

TABLE: - Employee

```
CREATE TABLE `employee` (  
  `em_id` int(11) NOT NULL,  
  `first_name` varchar(50) NOT NULL,  
  `last_name` varchar(50) NOT NULL,  
  `salary` int(11) NOT NULL,  
  `joining_date` date DEFAULT NULL,  
  `department` varchar(50) NOT NULL  
)
```

Insert into - - -

```
INSERT INTO `employee` (`em_id`,
`first_name`, `last_name`, `salary`,
`joining_date`, `department`) VALUES
(1, 'JOHN', 'ABRAHAM', 1000000,
'2013-01-01', 'BANKING'),
(2, 'MICHAL', 'CLERK', 800000,
'2013-01-01', 'INSURANCE'),
(3, 'ROY', 'THOMAS', 700000,
'2013-01-01', 'BANKING'),
(4, 'TOM', 'JOES', 600000, '2013-02-01',
'INSURANCE'),
(5, 'JERRY', 'PINTO', 650000,
'2013-01-01', 'INSURANCE'),
(6, 'PHILIP', 'MATHEW', 750000,
'2013-01-01', 'SERVICES'),
(7, 'TESTNAME1', '123', 650000,
'2013-01-01', 'SERVICES'),
(8, 'TESTNAME2', 'LNAME%', 600000,
'2013-02-01', 'INSURANCE');
```

Topic – SOL Task-1

TABLE: - Employee

EM_ID	FIRST_NAME	LAST_NAME	SALARY	JOINING_DATE	DEPARTMENT
1	JOHN	ABRAHAM	1000000	2013-01-01	BANKING
2	MICHAEL	CLERK	800000	2013-01-01	INSURANCE
3	ROY	THOMAS	700000	2013-02-01	BANKING
4	TOM	JOSE	600000	2013-02-01	INSURANCE
5	JERRY	PINTO	650000	2013-01-01	INSURANCE
6	PHILIP	MATHEW	750000	2013-01-01	SERVICES
7	TESTNAME1	123	650000	2013-01-01	SERVICES
8	TESTNAME2	LNAME%	600000	2013-02-01	INSURANCE

TABLE: - incentive

```
CREATE TABLE `incentive` (  
  `incentive_id` int(11) NOT NULL,  
  `employee_ref_id` int(11) NOT NULL,  
  `incentive_date` date DEFAULT NULL,  
  `incetive_amount` int(11) NOT NULL  
)
```

Insert into - - -

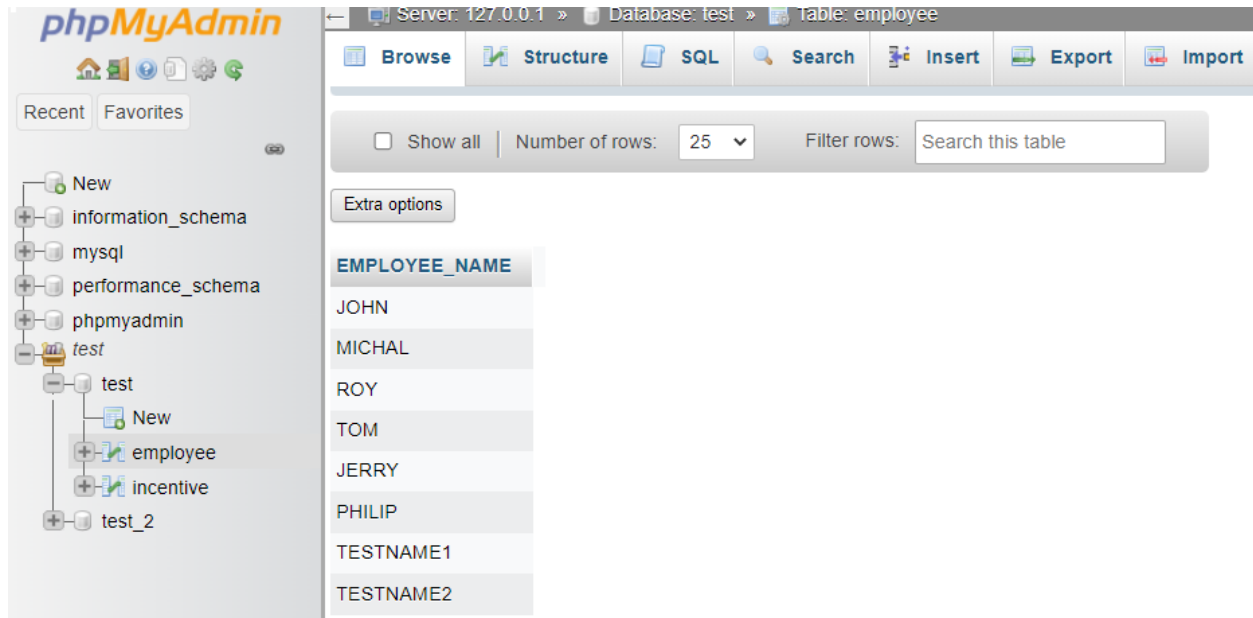
```
INSERT INTO `incentive` (`incentive_id`,  
`employee_ref_id`, `incentive_date`,  
`incentive_amount`) VALUES  
(1, 1, '2013-02-01', 5000),  
(2, 2, '2013-02-01', 3000),  
(3, 3, '2013-02-01', 4000),  
(4, 1, '2013-01-01', 4500),  
(5, 2, '2013-01-01', 3500);
```

TABLE: - Incentives

insentive_id	EMPLOYEE_REF_ID	INCENTIVE_DATE	INCENTIVE_AMT
1	1	2013-02-01	5000
2	2	2013-02-01	3000
3	3	2013-02-01	4000
4	1	2013-01-01	4500
5	2	2013-01-01	3500

a) Get First_Name from employee table using alias name "Employee Name"

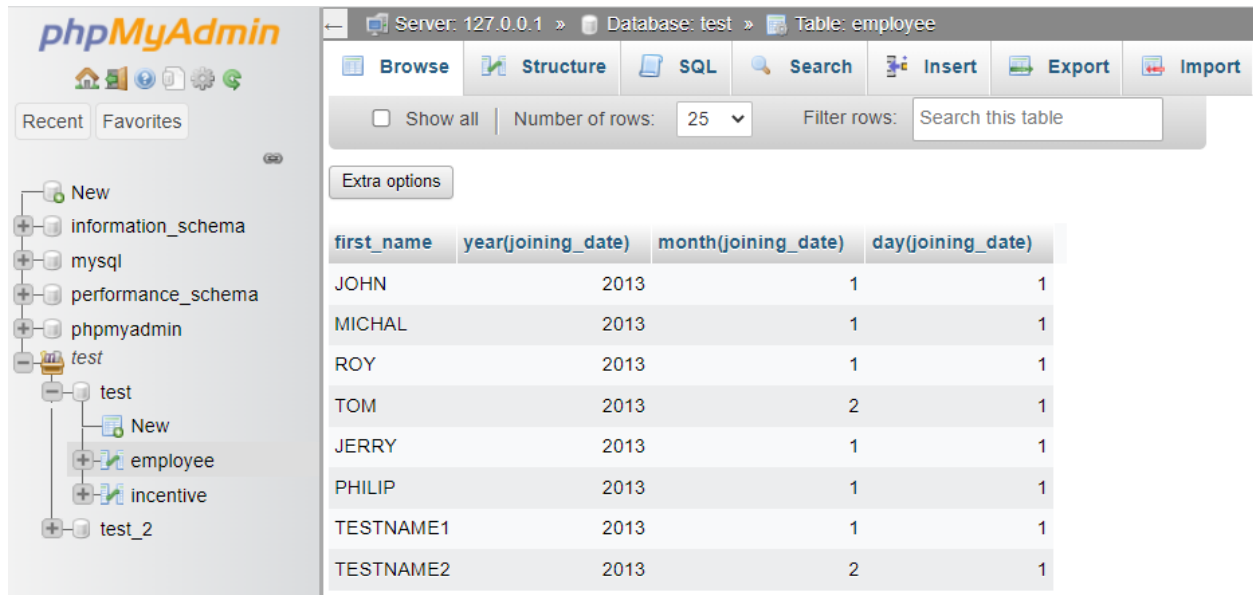
Ans - - SELECT first_name AS "EMPLOYEE_NAME" FROM employee



b) Get FIRST_NAME, Joining year, Joining Month and Joining Date from employee table.

Ans - -

```
SELECT
first_name,year(joining_date),month(joini
ng_date),day(joining_date)
FROM employee
```



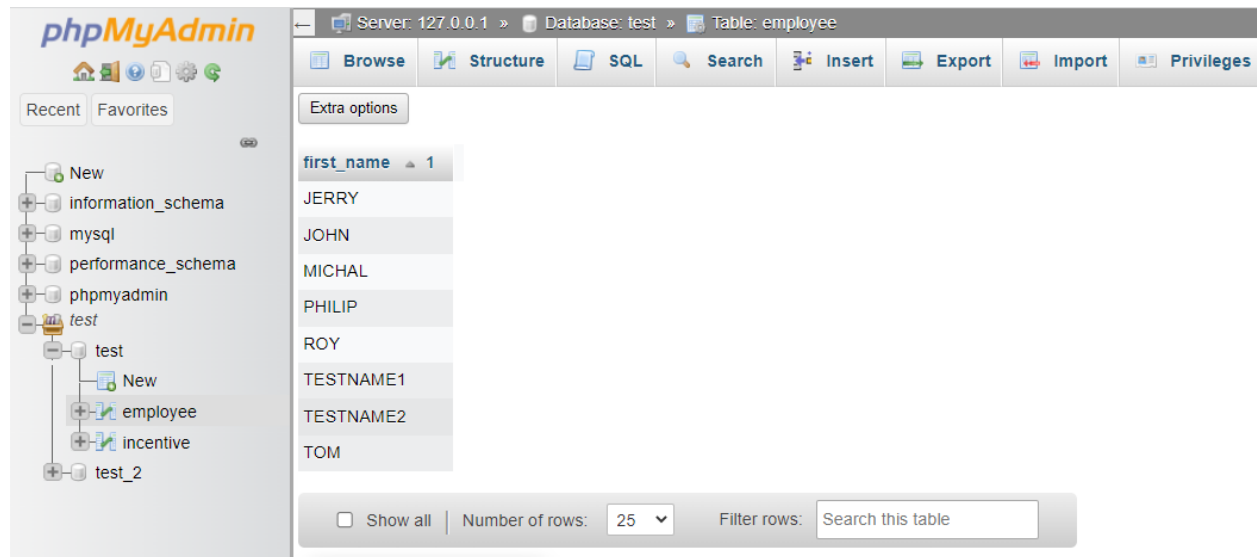
first_name	year(joining_date)	month(joining_date)	day(joining_date)
JOHN	2013	1	1
MICHAL	2013	1	1
ROY	2013	1	1
TOM	2013	2	1
JERRY	2013	1	1
PHILIP	2013	1	1
TESTNAME1	2013	1	1
TESTNAME2	2013	2	1

c) Get all employee details from the employee table order by First Name Ascending And Salary descending?

Ans - -

```
SELECT first_name FROM employee ORDER by
first_name ASC;
```

First_name ascending:



first_name
JERRY
JOHN
MICHAL
PHILIP
ROY
TESTNAME1
TESTNAME2
TOM

Salary descending:

```
SELECT salary FROM employee ORDER by  
salary DESC
```

Server: 127.0.0.1 » Database: test » Table: employee

Browse Structure SQL Search Insert Export Import Privileges

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

Extra options

salary	1
1000000	
800000	
750000	
700000	
650000	
650000	
600000	
600000	

d) Get employee details from the employee table whose first name contains „o“.

Ans - -

```
SELECT * FROM employee WHERE first_name
LIKE "%O%";
```


phpMyAdmin

Server: 127.0.0.1 » Database: test » Table: employee

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

Showing rows 0 - 2 (3 total, Query took 0.0005 seconds.)

```
SELECT * FROM employee WHERE first_name LIKE "%0%";
```

[Edit inline] [Edit] [Create PHP code]

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

Extra options

em_id	first_name	last_name	salary	joining_date	department
1	JOHN	ABRAHAM	1000000	2013-01-01	BANKING
3	ROY	THOMAS	700000	2013-01-01	BANKING
4	TOM	JOES	600000	2013-02-01	INSURANCE

e) Get employee details from employee table whose joining month is "January"

Ans - -

```
SELECT * FROM employee WHERE
month(joining_date)=01;
```

phpMyAdmin

Server: 127.0.0.1 » Database: test » Table: employee

☐ Profiling [Edit inline] [Edit] [Explain SQL] [Create PHP code] [Refresh]

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

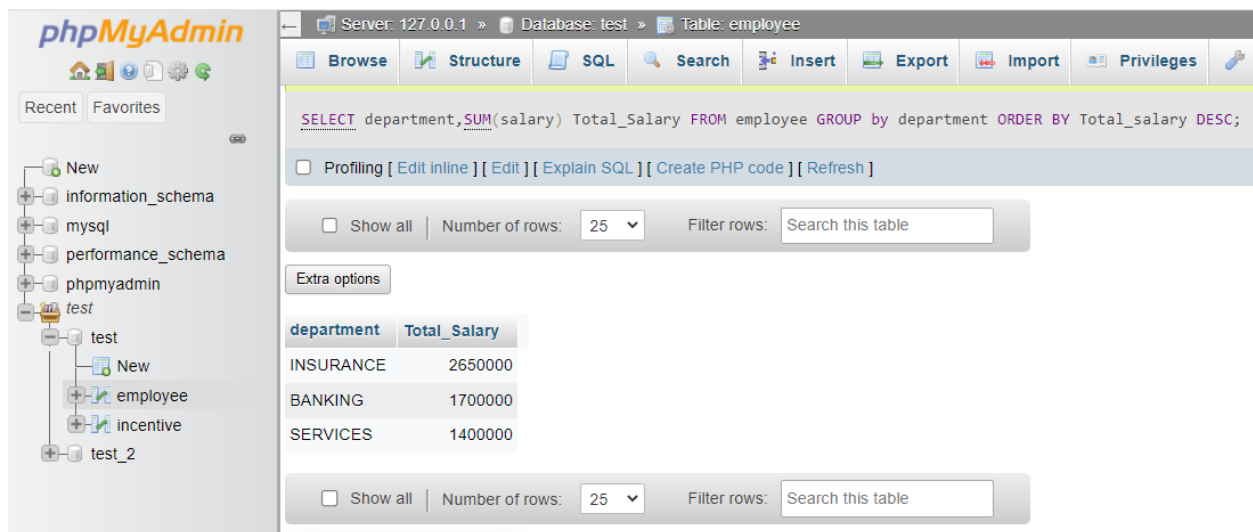
Extra options

em_id	first_name	last_name	salary	joining_date	department
1	JOHN	ABRAHAM	1000000	2013-01-01	BANKING
2	MICHAL	CLERK	800000	2013-01-01	INSURANCE
3	ROY	THOMAS	700000	2013-01-01	BANKING
5	JERRY	PINTO	650000	2013-01-01	INSURANCE
6	PHILIP	MATHEW	750000	2013-01-01	SERVICES
7	TESTNAME1	123	650000	2013-01-01	SERVICES

f) Get department, total salary with respect to a department from employee table Order By total salary descending.

Ans - -

```
SELECT department,SUM(salary)
Total_Salary
FROM employee
GROUP by department
ORDER BY Total_salary DESC;
```



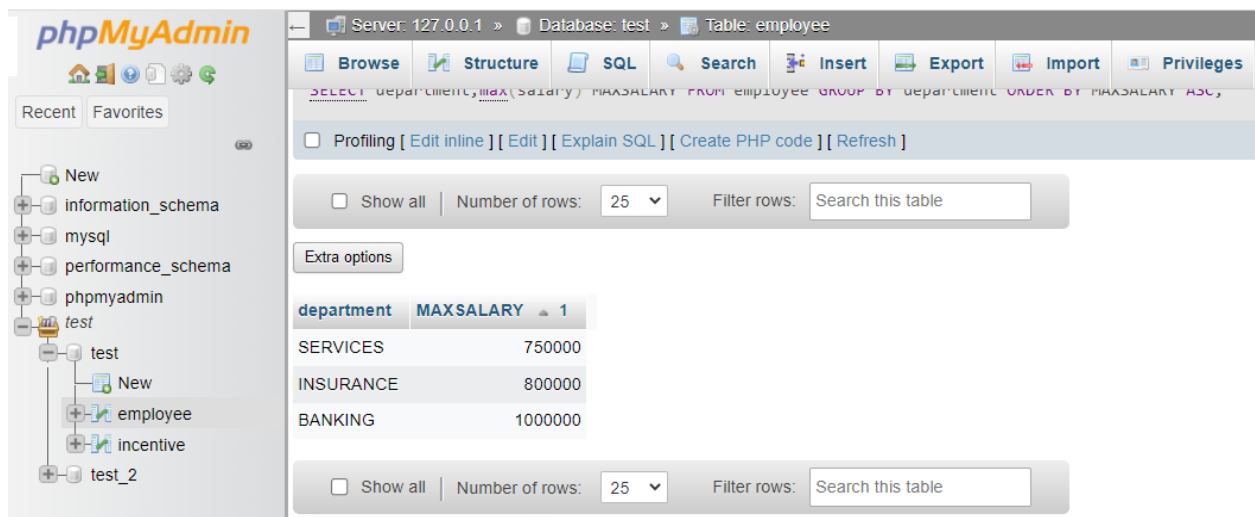
The screenshot shows the phpMyAdmin interface. On the left is a sidebar with a tree view of databases and tables. The main panel displays the SQL query: `SELECT department,SUM(salary) Total_Salary FROM employee GROUP by department ORDER BY Total_salary DESC;`. Below the query, there are options for 'Show all', 'Number of rows' (set to 25), and a 'Filter rows' search box. The results are shown in a table with two columns: 'department' and 'Total_Salary'.

department	Total_Salary
INSURANCE	2650000
BANKING	1700000
SERVICES	1400000

g) Get department wise maximum salary from employee table order by salary ascending?

Ans - -

```
SELECT department,max(salary) MAX SALARY
FROM employee
GROUP BY department
ORDER BY MAX SALARY ASC
```



The screenshot shows the phpMyAdmin interface. On the left is the database navigation tree with 'test' selected. The main panel displays the SQL query: `SELECT department,max(salary) MAXSALARY FROM employee GROUP BY department ORDER BY MAXSALARY ASC,`. Below the query, the 'Extra options' section shows a table with the results of the query.

department	MAXSALARY	1
SERVICES	750000	
INSURANCE	800000	
BANKING	1000000	

h) Select first_name, incentive amount from employee and incentives table for those Employees who have incentives and incentive amount greater than 3000

ANS - -

```
SELECT first_name, incetive_amount FROM  
employee e INNER JOIN incentive i  
ON e.em_id=i.employee_ref_id AND  
incetive_amount>3000;
```

The screenshot shows the phpMyAdmin web interface. On the left is a sidebar with a database tree structure. The main panel displays the 'employee' table from the 'test' database. The table has two columns: 'first_name' and 'incentive_amount'. The data rows are as follows:

first_name	incentive_amount
JOHN	5000
JOHN	4500
MICHAL	3500
ROY	4000

The interface includes navigation tabs (Browse, Structure, SQL, Search, Insert, Export, Import, Privileges) and a search bar at the top. The bottom of the table view shows pagination controls: 'Show all', 'Number of rows: 25', and 'Filter rows: Search this table'.

i) Select 2nd Highest salary from employee table.

Ans - -

```
SELECT max(salary) MAX SALARY FROM  
employee  
WHERE salary< (SELECT max(salary) FROM  
employee);
```

The screenshot shows the phpMyAdmin interface. On the left is a sidebar with a tree view of databases and tables. The 'test' database is selected, and the 'employee' table is highlighted. The main panel shows the 'SQL' tab with the following query: `SELECT max(salary) MAXSALARY FROM employee WHERE salary< (SELECT max(salary) FROM employee);`. A green status bar indicates the query was successful, showing 'Showing rows 0 - 0 (1 total, Query took 0.0005 seconds.)'. Below the query, there are options for 'Show all', 'Number of rows' (set to 25), and a 'Filter rows' search box. The query result is displayed in a table with one row:

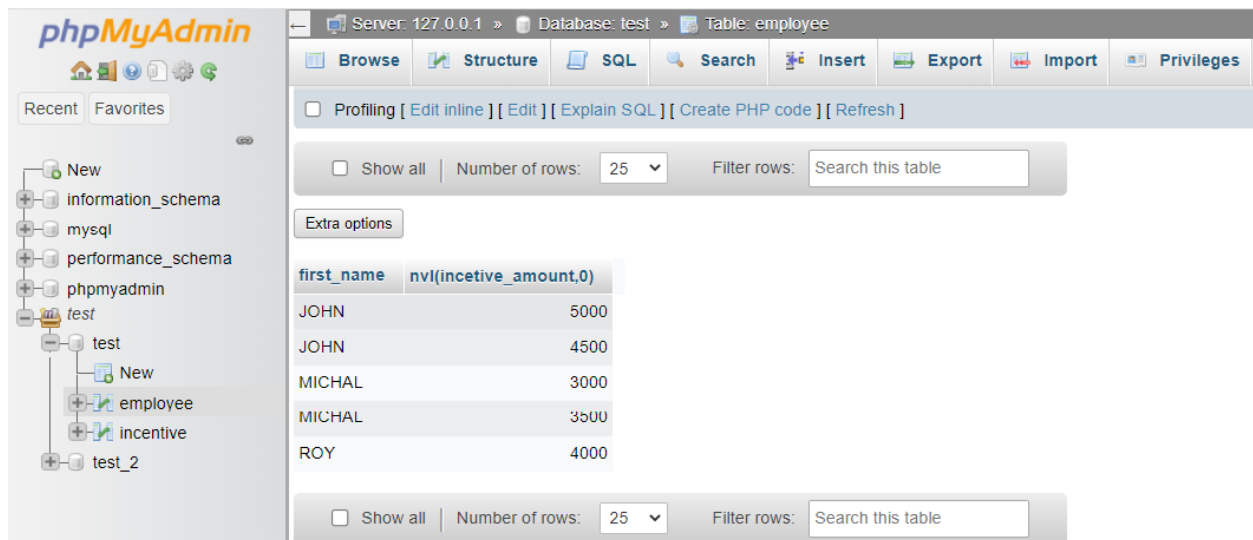
MAXSALARY
800000

. At the bottom, there is another set of controls for 'Show all', 'Number of rows' (25), and 'Filter rows'.

j) Select first_name, incentive amount from employee and incentives table for all Employees who got incentives using left join.

Ans - -

```
SELECT first_name,nvl(incetive_amount,0)
FROM employee RIGHT JOIN
incentive i ON e.em_id=i.employee_ref_id;
```



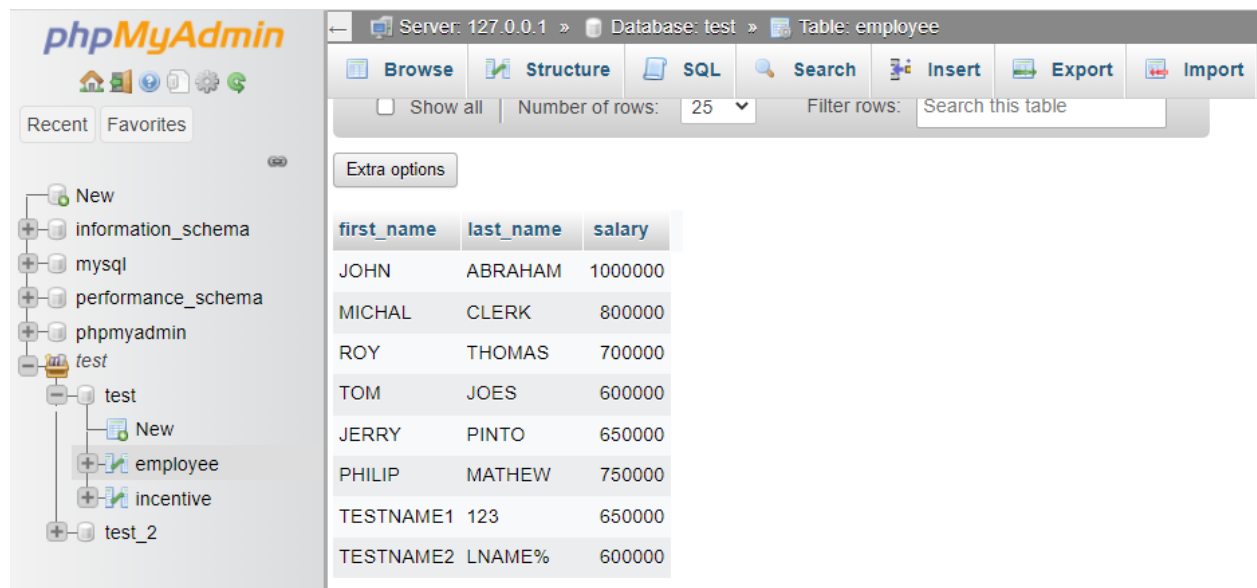
The screenshot shows the phpMyAdmin interface. On the left is a sidebar with a database tree. The main area displays the results of a SQL query. The query is: `SELECT first_name,nvl(incetive_amount,0) FROM employee RIGHT JOIN incentive i ON e.em_id=i.employee_ref_id;`. The results are shown in a table with two columns: `first_name` and `nvl(incetive_amount,0)`. The data rows are: JOHN (5000), JOHN (4500), MICHAL (3000), MICHAL (3500), and ROY (4000).

first_name	nvl(incetive_amount,0)
JOHN	5000
JOHN	4500
MICHAL	3000
MICHAL	3500
ROY	4000

k) Create View OF Employee table in which store first name, last name and salary only.

Ans - -

```
SELECT first_name,last_name,salary FROM employee
```



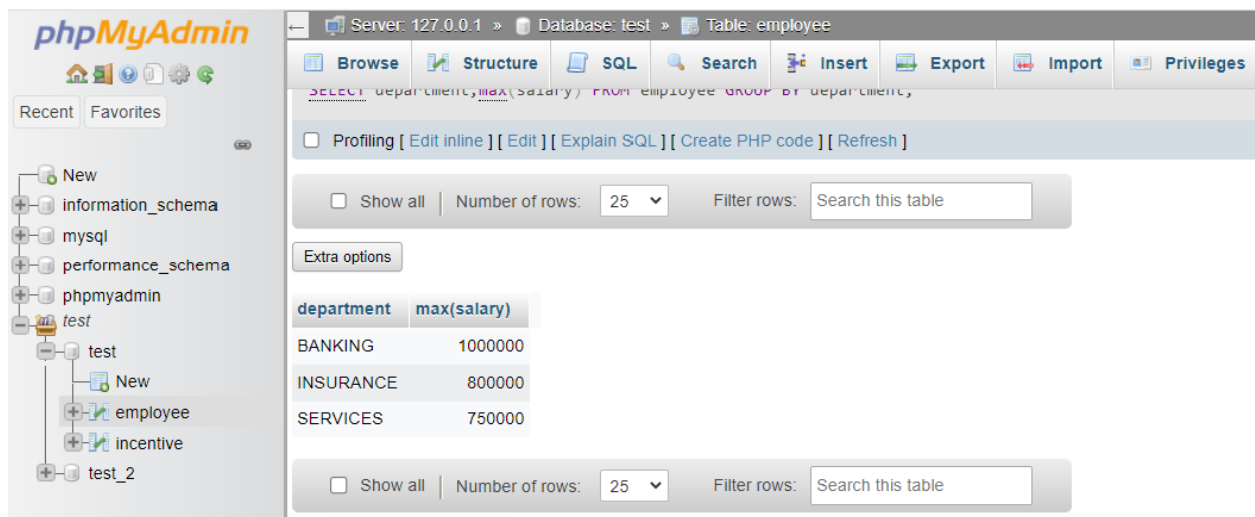
The screenshot shows the phpMyAdmin interface. On the left is a sidebar with a tree view of databases and tables. The 'test' database is selected, and the 'employee' table is highlighted. The main panel displays the 'Table: employee' view. It includes a toolbar with buttons for Browse, Structure, SQL, Search, Insert, Export, and Import. Below the toolbar, there are options to 'Show all', 'Number of rows' (set to 25), and a 'Filter rows' search box. An 'Extra options' button is also present. The table data is displayed in a grid with columns 'first_name', 'last_name', and 'salary'.

first_name	last_name	salary
JOHN	ABRAHAM	1000000
MICHAL	CLERK	800000
ROY	THOMAS	700000
TOM	JOES	600000
JERRY	PINTO	650000
PHILIP	MATHEW	750000
TESTNAME1	123	650000
TESTNAME2	LNAME%	600000

l) Create Procedure to find out department wise highest salary

Ans - -

```
SELECT department,max(salary) FROM  
employee GROUP BY department
```



The screenshot shows the phpMyAdmin interface. On the left is the database navigation tree with 'test' selected. The main panel displays the SQL query: `SELECT department,max(salary) FROM employee GROUP BY department;`. Below the query, the results are shown in a table format.

department	max(salary)
BANKING	1000000
INSURANCE	800000
SERVICES	750000

m) Create after Insert trigger on the Employee table which inserts records in the view table.

Ans - -


```
CREATE TRIGGER insert_into_view AFTER
INSERT ON employee
    FOR EACH ROW
        INSERT INTO employee_view
(FIRST_NAME, LAST_NAME, SALARY, )
    VALUES
        (NEW.FIRST_NAME,
NEW.LAST_NAME, NEW.SALARY) ;

INSERT INTO
employee (EM_ID, FIRST_NAME, LAST_NAME,
SALARY, JOINING_DATE, DEPARTMENT)
    VALUES

(9, "yashpal", "vala", 750000, "2022-01-01", "
BANKING") ;
```

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 - Views
 - New
 - employee_view
- test_2

Browse Structure SQL Search Insert Export Import Privileges

SELECT * FROM `employee`

☐ Profiling [Edit inline] [Edit] [Explain SQL] [Create PHP code] [Refresh]

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

Extra options

em_id	first_name	last_name	salary	joining_date	department
1	JOHN	ABRAHAM	1000000	2013-01-01	BANKING
2	MICHAL	CLERK	800000	2013-01-01	INSURANCE
3	ROY	THOMAS	700000	2013-01-01	BANKING
4	TOM	JOES	600000	2013-02-01	INSURANCE
5	JERRY	PINTO	650000	2013-01-01	INSURANCE
6	PHILIP	MATHEW	750000	2013-01-01	SERVICES
7	TESTNAME1	123	650000	2013-01-01	SERVICES
8	TESTNAME2	LNAME%	600000	2013-02-01	INSURANCE
9	yash	dodiya	750000	2022-01-01	BANKING

employee_view

Recent Favorites

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 - Tables
 - New
 - employee
 - Columns
 - incentive
 - Views
 - New
 - employee_view
- test_2

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

Extra options

	first_name	last_name	salary
<input type="checkbox"/> Edit Copy Delete	JOHN	ABRAHAM	1000000
<input type="checkbox"/> Edit Copy Delete	MICHAL	CLERK	800000
<input type="checkbox"/> Edit Copy Delete	ROY	THOMAS	700000
<input type="checkbox"/> Edit Copy Delete	TOM	JOES	600000
<input type="checkbox"/> Edit Copy Delete	JERRY	PINTO	650000
<input type="checkbox"/> Edit Copy Delete	PHILIP	MATHEW	750000
<input type="checkbox"/> Edit Copy Delete	TESTNAME1	123	650000
<input type="checkbox"/> Edit Copy Delete	TESTNAME2	LNAME%	600000
<input type="checkbox"/> Edit Copy Delete	yash	dodiya	750000

☐ Check all | With selected: Edit Copy Delete Export

