Topic – SQL Task-1

A) Get First_Name from employee table using name "Employee Name".

ANS:

```
1 SELECT FIRST_NAME FROM employee;
```

OUTPUT:

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

ANS:

```
1 SELECT FIRST_NAME,JOINNING_DATE FROM employees;
```

OUTPUT:

```
SELECT FIRST_NAME,JOINNING_DATE FROM employees;
```

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

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

Extra options

	FIRST_NAME	JOIN
Edit Copy Delete	JOHN	2013-
Edit Copy Delete	MICHAEL	2013-
Edit Copy Delete	ROY	2013-02-01
Edit Copy Delete	TOM	2013-02-01
Edit Copy Delete	JERRY	2013-01-01
Edit Copy Delete	PHILIP	2013-01-01

Item type: PNG File
Dimensions: 483 x 85
Size: 4.11 KB
Availability status: Available on this devic

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

ANS:

```
1 SELECT*FROM employees ORDER BY FIRST_NAME ASC;
```

OUTPUT:

FIRST NAME ASCENDING

Showing rows 0 - 5 (6 total, Query took 0.0009 seconds.) [FIRST_NAME: **JERRY... - TOM...**]

```
SELECT*FROM employees ORDER BY FIRST_NAME ASC;
```

Edit inline] [Edit] [Create PHP code]

Show all | Number of rows: 25 Filter rows: Search this table Sort by key: None

Extra options

	EM_ID	FIRST_NAME 1	LAST_NAME	SALARY	JOINNING_DATE	DEPARTMENT
Edit Copy Delete	5	JERRY	PINTO	650000	2013-01-01	INSURANCE
Edit Copy Delete	1	JOHN	ABHRAM	1000000	2013-01-01	BANKING
Edit Copy Delete	2	MICHAEL	CLERK	800000	2013-01-01	INSURANCE
Edit Copy Delete	6	PHILIP	MATHEW	750000	2013-01-01	SERVICES
Edit Copy Delete	3	ROY	THOMAS	700000	2013-02-01	BANKING
Edit Copy Delete	4	TOM	JOSE	600000	2013-02-01	INSURANCE

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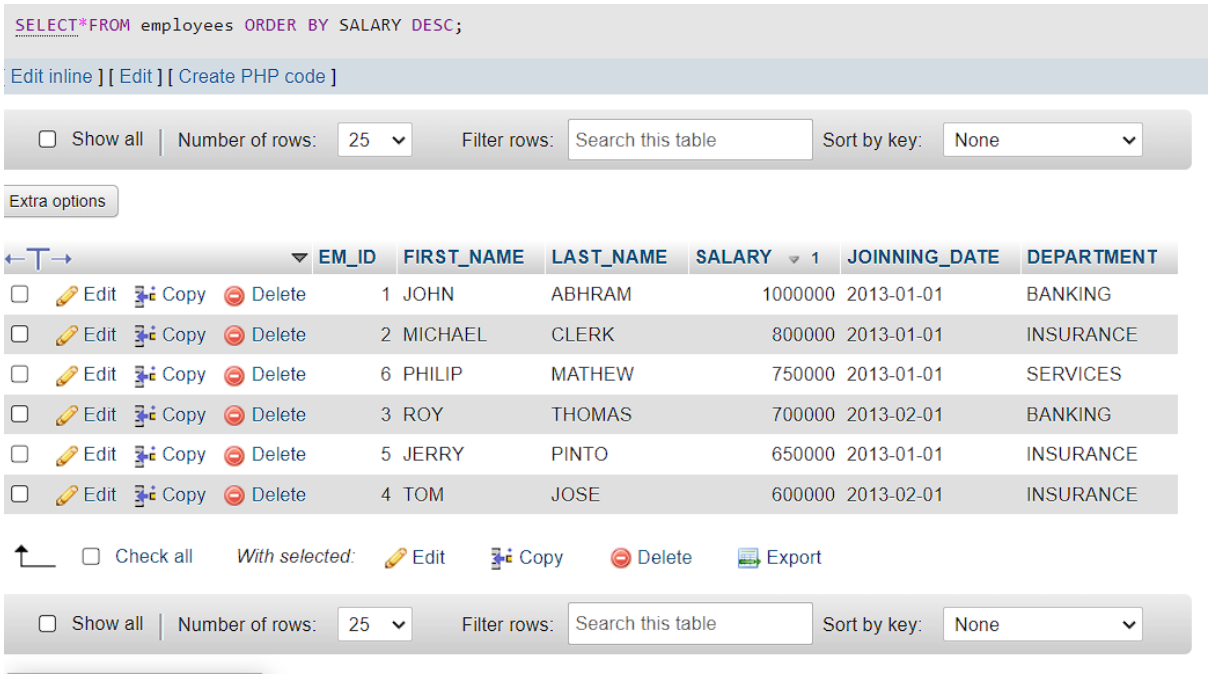
SALARY DESCENDING

```
1 SELECT*FROM employees ORDER BY SALARY DESC;
```

OUTPUT:



```
SELECT*FROM employees ORDER BY SALARY DESC;
```

Edit inline] [Edit] [Create PHP code]

Show all | Number of rows: 25 Filter rows: Search this table Sort by key: None

Extra options

	EM_ID	FIRST_NAME	LAST_NAME	SALARY 1	JOINNING_DATE	DEPARTMENT
Edit Copy Delete	1	JOHN	ABHRAM	1000000	2013-01-01	BANKING
Edit Copy Delete	2	MICHAEL	CLERK	800000	2013-01-01	INSURANCE
Edit Copy Delete	6	PHILIP	MATHEW	750000	2013-01-01	SERVICES
Edit Copy Delete	3	ROY	THOMAS	700000	2013-02-01	BANKING
Edit Copy Delete	5	JERRY	PINTO	650000	2013-01-01	INSURANCE
Edit Copy Delete	4	TOM	JOSE	600000	2013-02-01	INSURANCE

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Show all | Number of rows: 25 Filter rows: Search this table Sort by key: None

D) Get employee details from employee table whose first name contains „o".

ANS:

```
1 SELECT * FROM employee WHERE FIRST_NAME LIKE '%o%';
```

OUTPUT:

```
SELECT * FROM `employees` WHERE FIRST_NAME LIKE '%O%';
```

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

Show all | Number of rows: 25 Filter rows: Search this table Sort by key: None

Extra options

	EM_ID	FIRST_NAME	LAST_NAME	SALARY	JOINNING_DATE	DEPARTMENT
Edit Copy Delete	1	JOHN	ABHRAM	1000000	2013-01-01	BANKING
Edit Copy Delete	3	ROY	THOMAS	700000	2013-02-01	BANKING
Edit Copy Delete	4	TOM	JOSE	600000	2013-02-01	INSURANCE

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Show all | Number of rows: 25 Filter rows: Search this table Sort by key: None

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

ANS:

```
1 SELECT * FROM `employee` WHERE MONTH(JOINING_DATE)=01;
```

OUTPUT:

```
SELECT * FROM `employees` WHERE MONTH(JOINNING_DATE)=01;
```

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

Show all | Number of rows: 25 Filter rows: Search this table Sort by key: None

Extra options

	EM_ID	FIRST_NAME	LAST_NAME	SALARY	JOINNING_DATE	DEPARTMENT
Edit Copy Delete	1	JOHN	ABHRAM	1000000	2013-01-01	BANKING
Edit Copy Delete	2	MICHAEL	CLERK	800000	2013-01-01	INSURANCE
Edit Copy Delete	5	JERRY	PINTO	650000	2013-01-01	INSURANCE
Edit Copy Delete	6	PHILIP	MATHEW	750000	2013-01-01	SERVICES

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Show all | Number of rows: 25 Filter rows: Search this table Sort by key: None

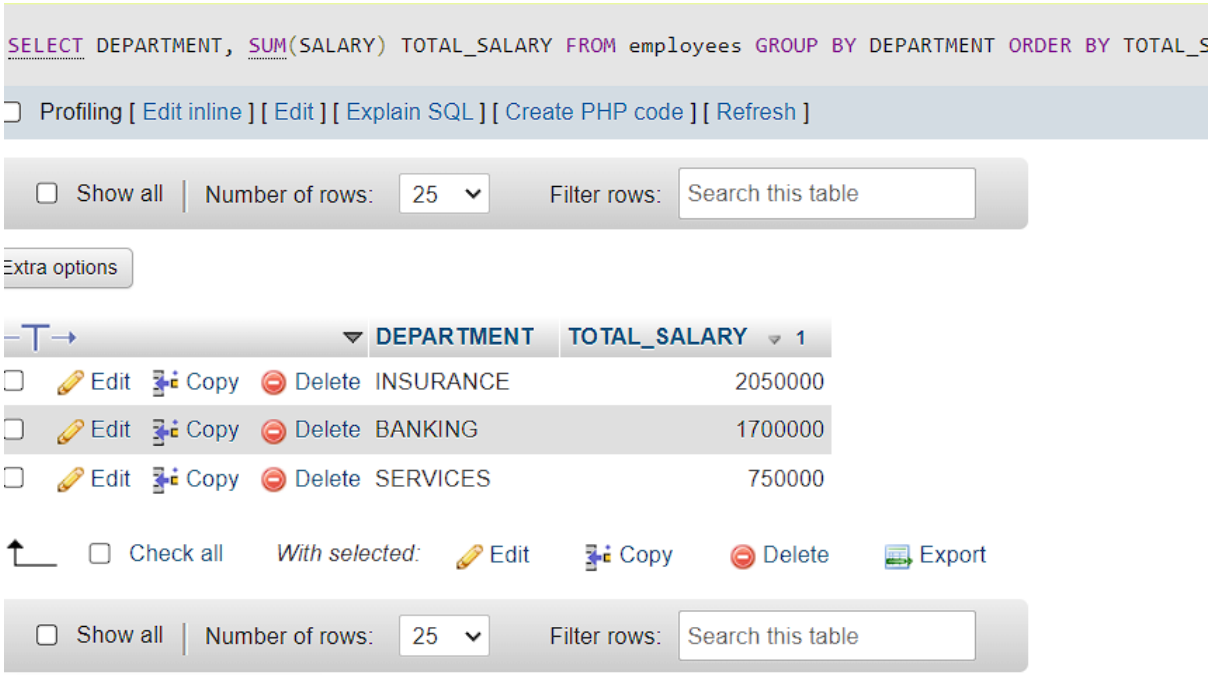
Query results operations

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

ANS:

```
1 SELECT DEPARTMENT, SUM(SALARY) TOTAL_SALARY FROM employee GROUP BY DEPARTMENT ORDER BY TOTAL_SALARY DESC;
```

OUTPUT:



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

ANS:

```
1 SELECT DEPARTMENT, MAX(SALARY) MAX_SALARY FROM employees GROUP BY DEPARTMENT ORDER BY MAX_SALARY ASC;
```

OUTPUT:

```
SELECT DEPARTMENT, MAX(SALARY) MAX_SALARY FROM employees GROUP BY DEPARTMENT ORDER BY MAX_SALARY ASC;
```

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

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

Extra options

	DEPARTMENT	MAX_SALARY ▲ 1
Edit Copy Delete	SERVICES	750000
Edit Copy Delete	INSURANCE	800000
Edit Copy Delete	BANKING	1000000

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

Query results operations

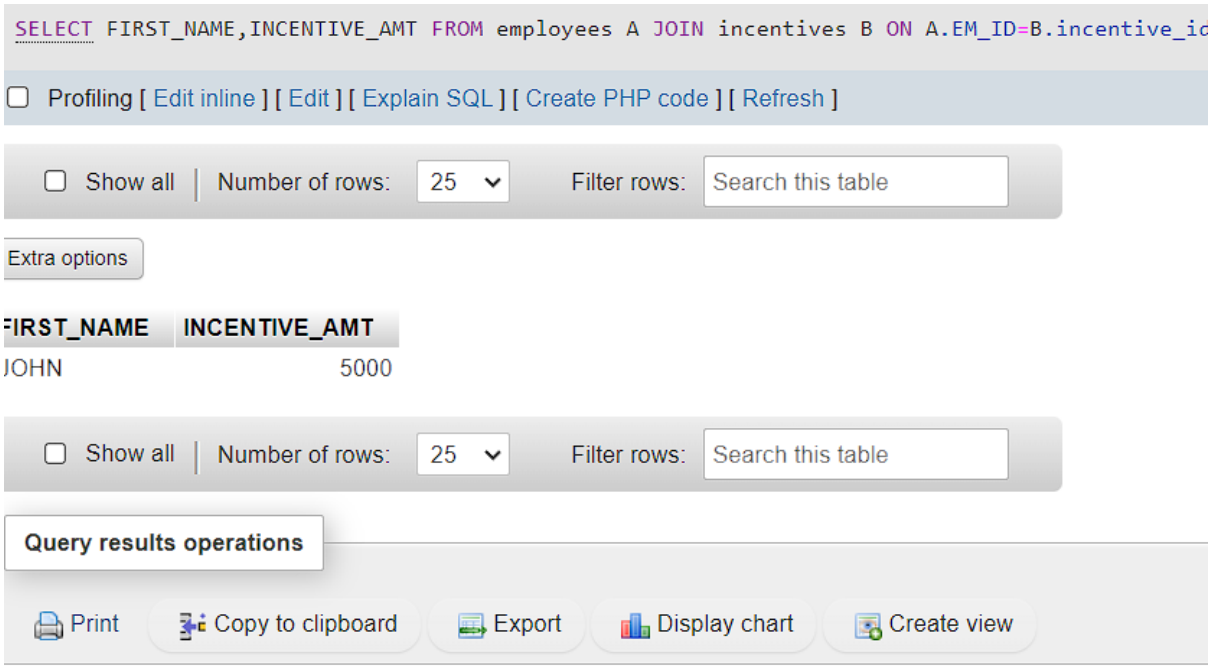
Print Copy to clipboard Export Display chart Create view

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

ANS:

```
1 SELECT FIRST_NAME,INCENTIVE_AMT
2 FROM employees A JOIN incentives B ON A.EM_ID=B.incentive_id AND INCENTIVE_AMT > 3000;
```

OUTPUT:

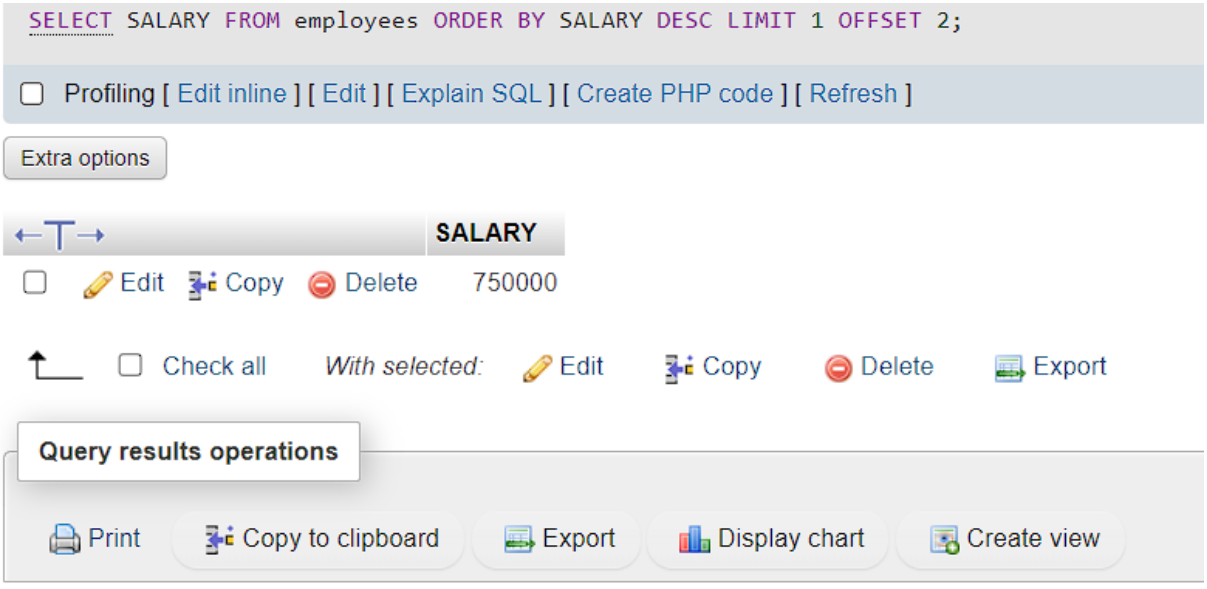


I) Select 2nd Highest salary from employee table.

ANS:

```
1 SELECT SALARY FROM employee ORDER BY SALARY DESC LIMIT 1 OFFSET 2;
```

OUTPUT:

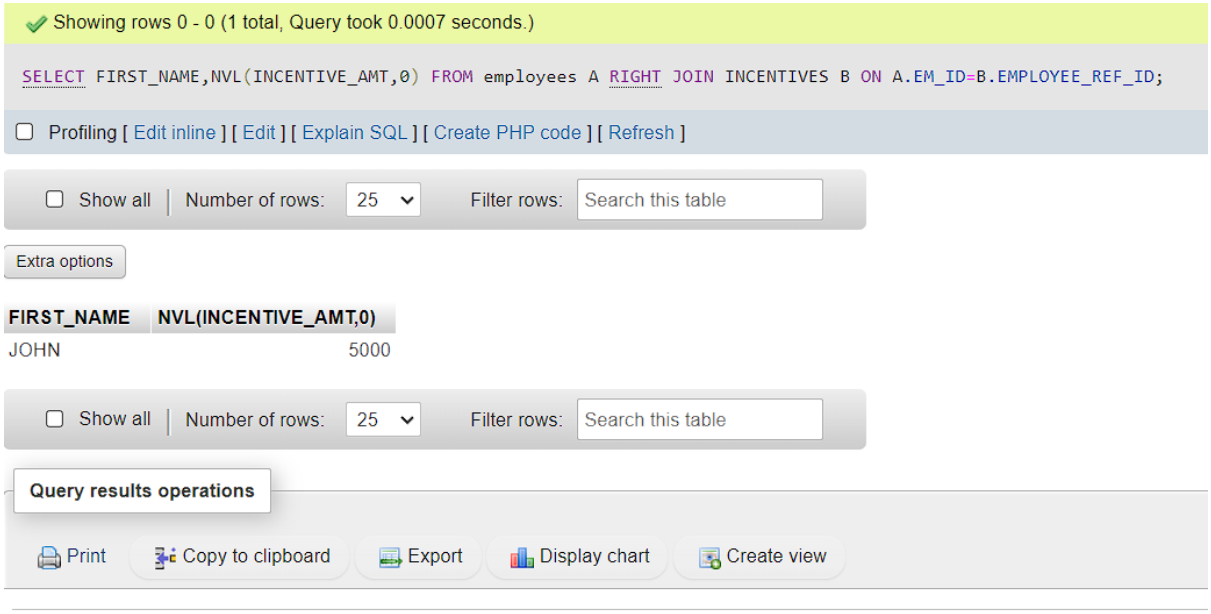


I) Select first_name, incentive amount from employee and incentives table for all Employees who got incentives using left join.

ANS:

```
SELECT FIRST_NAME,NVL(INSENSITIVE_AMT,0)
FROM employees A RIGHT JOIN INCENTIVES B
ON A.EM_ID=B.EMPLOYEE_REF_ID;
```

OUTPUT:



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

ANS :

```
CREATE VIEW employeeView AS SELECT FIRST_NAME, LAST_NAME,SALARY FROM employee;
```

OUTPUT:

	FIRST_NAME	LAST_NAME	SALARY
Edit Copy Delete	John	Abraham	1000000
Edit Copy Delete	Michael	Clerk	800000
Edit Copy Delete	Roy	Thomas	700000
Edit Copy Delete	Tom	Jose	600000
Edit Copy Delete	Jerry	Pinto	650000
Edit Copy Delete	Philip	mathew	750000
Edit Copy Delete	Testname1	123	6500000
Edit Copy Delete	Testname2	Lname%	600000

L) Create Procedure to find out department wise highest salary.

ANS:

```
DELIMITER //
CREATE PROCEDURE DepartmentHighSalary()
BEGIN
    SELECT DEPARTMENT, MAX(SALARY) AS highest_salary
    FROM employees
    GROUP BY DEPARTMENT;
END//
DELIMITER ;
```

OUTPUT:

MySQL returned an empty result set (i.e. zero rows). (Query took 0.0139 seconds.)

```
CREATE PROCEDURE DepartmentHighSalary() BEGIN SELECT DEPARTMENT, MAX(SALARY) AS highest_salary FROM employees GROUP BY DEPARTMENT; END;
```

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

M) Create after Insert trigger on Employee table which insert records in view table.

ANS:

Run SQL query/queries on table company.incentives:

```
DELIMITER //
CREATE TRIGGER AFTEREMPLOYEEINSERT
AFTER INSERT ON employees
FOR EACH ROW
BEGIN
    INSERT INTO employesview (FIRST_NAME, LAST_NAME, SALARY)
    VALUES (NEW.FIRST_NAME, NEW.LAST_NAME, NEW.SALARY);
END;
//
DELIMITER ;
```

OUTPUT:

MySQL returned an empty result set (i.e. zero rows). (Query took 0.0200 seconds.)

```
CREATE TRIGGER AFTEREMPLOYEEINSERT AFTER INSERT ON employees FOR EACH ROW BEGIN INSERT INTO employesview (FIRST_NAME, LAST_NAME, SALARY) VALUES (NEW.FIRST_NAME,
NEW.LAST_NAME, NEW.SALARY); END;;
```

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