

## Coding Challenge Questions : My SQL

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FIRST_NAME LAST_NAME		SALARY	JOINING_DATE	DEPARTMENT
1 John	Abraham	1000000	2013-01-01 12.00.00	Banking
2 Michael	Clarke	800000	2013-01-01 12.00.00	Insurance
3 Roy	Thomas	700000	2013-02-01 12.00.00	Banking
4 Tom	Jose	600000	2013-02-01 12.00.00	Insurance
5 Jerry	Pinto	650000	2013-02-01 12.00.00	Insurance
6 Philip	Mathew	750000	2013-02-01 12.00.00	Services
7 Towino	Thomas	650000	2013-01-01 12.00.00	Services
8 Jeffin	Jose	600000	2013-02-01 12.00.00	Insurance

**Table Name : Incentives**

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

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## 1. Get all employee details from the employee table

Result Grid

Filter Rows:

Edit

Export/Import:

Wrap Cell Content:

	EMP_ID	FIRST_NAME	LAST_NAME	SALARY	JOINING_DATE	DEPARTMENT
▶	1	John	Abraham	1000000	2013-01-01 12:00:00	Banking
	2	Michael	Clarke	800000	2013-01-01 12:00:00	Insurance
	3	Roy	Thomas	700000	2013-01-01 12:00:00	Banking
	4	Tom	Jose	600000	2013-01-01 12:00:00	Insurance
	5	Jerry	Pinto	650000	2013-01-01 12:00:00	Insurance
	6	Philip	Mathew	750000	2013-01-01 12:00:00	Services
	7	Towino	Thomas	650000	2013-01-01 12:00:00	Services
	8	Jeffin	Jose	600000	2013-01-01 12:00:00	Insurance

## 2. Get First\_Name,Last\_Name from employee table

Result Grid	Filter Rows
FIRST_NAME	LAST_NAME
John	Abraham
Michael	Clarke
Roy	Thomas
Tom	Jose
Jerry	Pinto
Philip	Mathew
Towino	Thomas
Jeffin	Jose

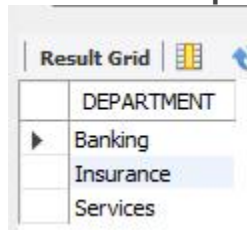
## 3. Get First\_Name from employee table in upper case

upper(FIRST_NAME)
JOHN
MICHAEL
ROY
TOM
JERRY
PHILIP
TOWINO
JEFFIN

## 4. Get First\_Name from employee table in lower case

lower(FIRST_NAME)
john
michael
roy
tom
jerry
philip
towino
jeffin

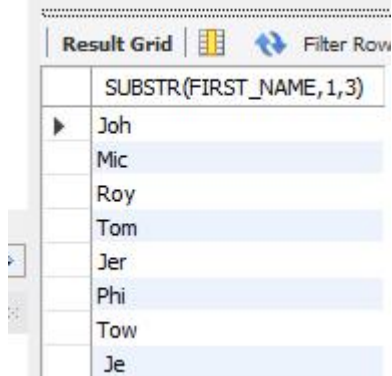
5. Get unique DEPARTMENT from employee table



The screenshot shows a 'Result Grid' with a single column header 'DEPARTMENT'. The data rows are 'Banking', 'Insurance', and 'Services'.

DEPARTMENT
Banking
Insurance
Services

6. Select first 3 characters of FIRST\_NAME from EMPLOYEE



The screenshot shows a 'Result Grid' with a single column header 'SUBSTR(FIRST\_NAME, 1, 3)'. The data rows are 'Joh', 'Mic', 'Roy', 'Tom', 'Jer', 'Phi', 'Tow', and 'Je'.

SUBSTR(FIRST_NAME, 1, 3)
Joh
Mic
Roy
Tom
Jer
Phi
Tow
Je

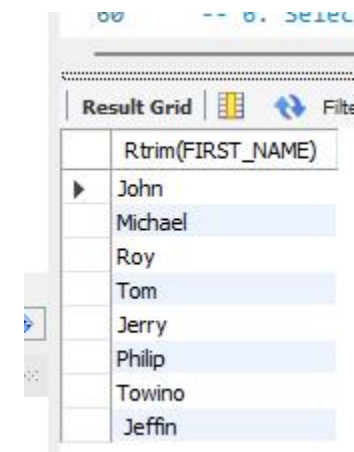
7. Get position of 'o' in name 'John' from employee table



The screenshot shows a 'Result Grid' with a single column header 'MatchPosition'. The data row is '2'.

MatchPosition
2

8. Get FIRST\_NAME from employee table after removing white spaces from right side



The screenshot shows a 'Result Grid' with a single column header 'Rtrim(FIRST\_NAME)'. The data rows are 'John', 'Michael', 'Roy', 'Tom', 'Jerry', 'Philip', 'Towino', and 'Jeffin'.

Rtrim(FIRST_NAME)
John
Michael
Roy
Tom
Jerry
Philip
Towino
Jeffin

9. Get FIRST\_NAME from employee table after removing white spaces from left side

Result Grid	
	ltrim(FIRST_NAME)
▶	John
	Michael
	Roy
	Tom
	Jerry
	Philip
	Towino
	Jeffin

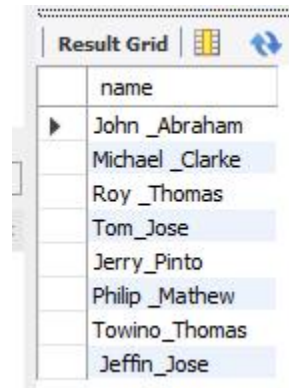
10. Get length of FIRST\_NAME from employee table

Result Grid	
	length
▶	5
	8
	4
	3
	5
	7
	6
	7

11. Get First\_Name from employee table after replacing 'o' with '\$'

Result Grid	
	replacingcharacter
▶	J\$hn
	Michael
	R\$y
	T\$m
	Jerry
	Philip
	T\$win\$
	Jeffin

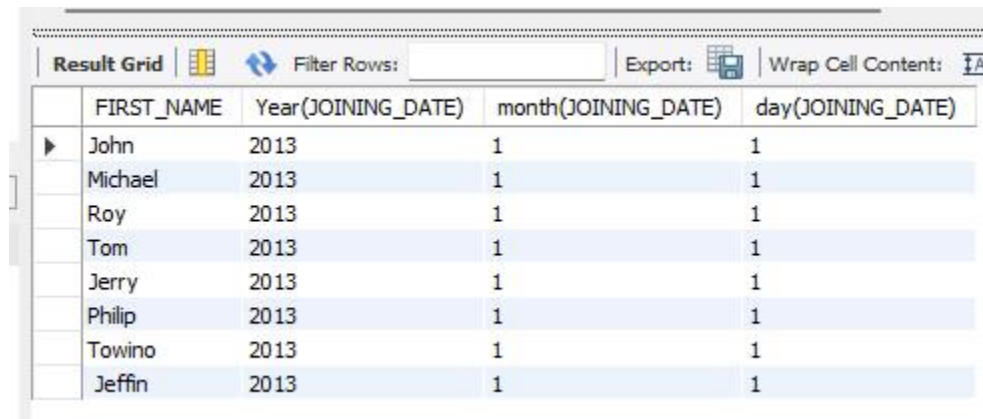
12. Get First\_Name and Last\_Name as single column from employee table separated by a '\_'



Result Grid

name
John_Abraham
Michael_Clarke
Roy_Thomas
Tom_Jose
Jerry_Pinto
Philip_Mathew
Towino_Thomas
Jeffin_Jose

13. Get FIRST\_NAME ,Joining year,Joining Month and Joining Date from employee table



Result Grid

FIRST_NAME	Year(JOINING_DATE)	month(JOINING_DATE)	day(JOINING_DATE)
John	2013	1	1
Michael	2013	1	1
Roy	2013	1	1
Tom	2013	1	1
Jerry	2013	1	1
Philip	2013	1	1
Towino	2013	1	1
Jeffin	2013	1	1

14. Get all employee details from the employee table order by First\_Name Ascending



Result Grid

FIRST_NAME
Jeffin
Jerry
John
Michael
Philip
Roy
Tom
Towino

15. Get all employee details from the employee table order by First\_Name descending

Result Grid	
	FIRST_NAME
▶	Towino
	Tom
	Roy
	Philip
	Michael
	John
	Jerry
	Jeffin

16. Get all employee details from the employee table order by First\_Name Ascending and Salary descending

	EMP_ID	FIRST_NAME	LAST_NAME	SALARY	JOINING_DATE	DEPARTMENT
▶	8	Jeffin	Jose	600000	2013-01-01 12:00:00	Insurance
	5	Jerry	Pinto	650000	2013-01-01 12:00:00	Insurance
	1	John	Abraham	1000000	2013-01-01 12:00:00	Banking
	2	Michael	Clarke	800000	2013-01-01 12:00:00	Insurance
	6	Philip	Mathew	750000	2013-01-01 12:00:00	Services
	3	Roy	Thomas	700000	2013-01-01 12:00:00	Banking
	4	Tom	Jose	600000	2013-01-01 12:00:00	Insurance
	7	Towino	Thomas	650000	2013-01-01 12:00:00	Services

17. Get employee details from employee table whose employee name is “John”

Result Grid

Filter Rows:

Edit:

Export/Import:

Wrap Cell Content:

	EMP_ID	FIRST_NAME	LAST_NAME	SALARY	JOINING_DATE	DEPARTMENT	INCENTIVE_AMOUNT
▶	1	John	Abraham	1000000	2013-01-01 12:00:00	Banking	5000

18. Get employee details from employee table whose employee name are “John” and “Roy”

Result Grid

Filter Rows:

Edit:

Export/Import:

	EMP_ID	FIRST_NAME	LAST_NAME	SALARY	JOINING_DATE	DEPARTMENT
▶	1	John	Abraham	1000000	2013-01-01 12:00:00	Banking
	3	Roy	Thomas	700000	2013-01-01 12:00:00	Banking

19. Get employee details from employee table whose employee name are not “John” and “Roy”



Result Grid						
Filter Rows: <input type="text"/>						
Edit:						
Export/Import:						
	EMP_ID	FIRST_NAME	LAST_NAME	SALARY	JOINING_DATE	DEPARTMENT
▶	2	Michael	Clarke	800000	2013-01-01 12:00:00	Insurance
	4	Tom	Jose	600000	2013-01-01 12:00:00	Insurance
	5	Jerry	Pinto	650000	2013-01-01 12:00:00	Insurance
	6	Philip	Mathew	750000	2013-01-01 12:00:00	Services
	7	Towino	Thomas	650000	2013-01-01 12:00:00	Services
	8	Jeffin	Jose	600000	2013-01-01 12:00:00	Insurance

20. Get employee details from employee table whose first name ends with 'n' and name contains 4 letters

Result Grid							
Filter Rows: <input type="text"/>							
Edit:							
Export/Import:   Wrap Cell Content							
	EMP_ID	FIRST_NAME	LAST_NAME	SALARY	JOINING_DATE	DEPARTMENT	INCENTIVE_AMOUNT
▶	1	John	Abraham	1000000	2013-01-01 12:00:00	Banking	5000

21. Get employee details from employee table whose first name starts with 'J' and name contains 4 letters

Result Grid							
Filter Rows: <input type="text"/>							
Edit:							
Export/Import:   Wrap Cell Content							
	EMP_ID	FIRST_NAME	LAST_NAME	SALARY	JOINING_DATE	DEPARTMENT	INCENTIVE_AMOUNT
▶	1	John	Abraham	1000000	2013-01-01 12:00:00	Banking	5000

22. Get employee details from employee table whose Salary greater than 600000

Result Grid						
Filter Rows: <input type="text"/>						
Edit:						
Export/Import:						
	EMP_ID	FIRST_NAME	LAST_NAME	SALARY	JOINING_DATE	DEPARTMENT
▶	1	John	Abraham	1000000	2013-01-01 12:00:00	Banking
	2	Michael	Clarke	800000	2013-01-01 12:00:00	Insurance
	3	Roy	Thomas	700000	2013-01-01 12:00:00	Banking
	5	Jerry	Pinto	650000	2013-01-01 12:00:00	Insurance
	6	Philip	Mathew	750000	2013-01-01 12:00:00	Services
	7	Towino	Thomas	650000	2013-01-01 12:00:00	Services

23. Get employee details from employee table whose Salary less than 800000

Result Grid						
Filter Rows: <input type="text"/>						
Edit:						
Export/Import:						
	EMP_ID	FIRST_NAME	LAST_NAME	SALARY	JOINING_DATE	DEPARTMENT
▶	3	Roy	Thomas	700000	2013-01-01 12:00:00	Banking
	4	Tom	Jose	600000	2013-01-01 12:00:00	Insurance
	5	Jerry	Pinto	650000	2013-01-01 12:00:00	Insurance
	6	Philip	Mathew	750000	2013-01-01 12:00:00	Services
	7	Towino	Thomas	650000	2013-01-01 12:00:00	Services
	8	Jeffin	Jose	600000	2013-01-01 12:00:00	Insurance

**24. Get employee details from employee table whose Salary between 500000 and 800000**

Result Grid				Filter Rows: <input type="text"/>	Edit: 			Export/Import: 
	EMP_ID	FIRST_NAME	LAST_NAME	SALARY	JOINING_DATE	DEPARTMENT		
▶	2	Michael	Clarke	800000	2013-01-01 12:00:00	Insurance		
	3	Roy	Thomas	700000	2013-01-01 12:00:00	Banking		
	4	Tom	Jose	600000	2013-01-01 12:00:00	Insurance		
	5	Jerry	Pinto	650000	2013-01-01 12:00:00	Insurance		
	6	Philip	Mathew	750000	2013-01-01 12:00:00	Services		
	7	Towino	Thomas	650000	2013-01-01 12:00:00	Services		
	8	Jeffin	Jose	600000	2013-01-01 12:00:00	Insurance		

**25. Get employee details from employee table whose name is 'John' and 'Michael'**

Result Grid

Filter Rows:

Edit:

Export/Import:

	EMP_ID	FIRST_NAME	LAST_NAME	SALARY	JOINING_DATE	DEPARTMENT
▶	1	John	Abraham	1000000	2013-01-01 12:00:00	Banking
	2	Michael	Clarke	800000	2013-01-01 12:00:00	Insurance

**26. Get employee details from employee table whose joining year is “2013”**

Result Grid

Filter Rows:

Edit:

Export/Import:

	EMP_ID	FIRST_NAME	LAST_NAME	SALARY	JOINING_DATE	DEPARTMENT
▶	1	John	Abraham	1000000	2013-01-01 12:00:00	Banking
	2	Michael	Clarke	800000	2013-01-01 12:00:00	Insurance
	3	Roy	Thomas	700000	2013-01-01 12:00:00	Banking
	4	Tom	Jose	600000	2013-01-01 12:00:00	Insurance
	5	Jerry	Pinto	650000	2013-01-01 12:00:00	Insurance
	6	Philip	Mathew	750000	2013-01-01 12:00:00	Services
	7	Towino	Thomas	650000	2013-01-01 12:00:00	Services
	8	Jeffin	Jose	600000	2013-01-01 12:00:00	Insurance

**27. Get employee details from employee table whose joining month is “January”**

Result Grid		Filter Rows:			Edit:	Export/Import:	
	EMP_ID	FIRST_NAME	LAST_NAME	SALARY	JOINING_DATE	DEPARTMENT	
▶	1	John	Abraham	1000000	2013-01-01 12:00:00	Banking	
	2	Michael	Clarke	800000	2013-01-01 12:00:00	Insurance	
	3	Roy	Thomas	700000	2013-01-01 12:00:00	Banking	
	4	Tom	Jose	600000	2013-01-01 12:00:00	Insurance	
	5	Jerry	Pinto	650000	2013-01-01 12:00:00	Insurance	
	6	Philip	Mathew	750000	2013-01-01 12:00:00	Services	
	7	Towino	Thomas	650000	2013-01-01 12:00:00	Services	
	8	Jeffin	Jose	600000	2013-01-01 12:00:00	Insurance	



Result Grid | Filter Rows: | Edit: | Export/Import:

	EMP_ID	FIRST_NAME	LAST_NAME	SALARY	JOINING_DATE	DEPARTMENT
▶	1	John	Abraham	1000000	2013-01-01 12:00:00	Banking
	2	Michael	Clarke	800000	2013-01-01 12:00:00	Insurance
	3	Roy	Thomas	700000	2013-01-01 12:00:00	Banking
	4	Tom	Jose	600000	2013-01-01 12:00:00	Insurance
	5	Jerry	Pinto	650000	2013-01-01 12:00:00	Insurance
	6	Philip	Mathew	750000	2013-01-01 12:00:00	Services
	7	Towino	Thomas	650000	2013-01-01 12:00:00	Services
	8	Jeffin	Jose	600000	2013-01-01 12:00:00	Insurance
*	NULL	NULL	NULL	NULL	NULL	NULL

**29. Get employee details from employee table who joined after January 31st**

<b>Result Grid</b>		Filter Rows:	<input type="text"/>	Edit:				Export/Import:			Wrap Cell Content:	
	EMP_ID	FIRST_NAME	LAST_NAME	SALARY	JOINING_DATE	DEPARTMENT						
*	NULL	NULL	NULL	NULL	NULL	NULL						

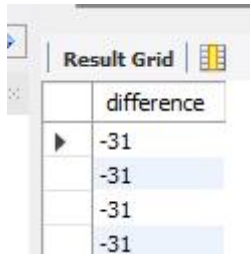
### 30. Get Joining Date and Time from employee table

[illegible]

### 31. Get Joining Date,Time including milliseconds from employee table

[illegible]

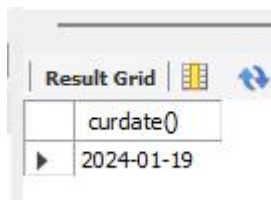
32. Get difference between JOINING\_DATE and INCENTIVE\_DATE from employee and incentives table



The screenshot shows a 'Result Grid' with a single column header 'difference'. It contains four rows, all with the value '-31'.

	difference
▶	-31
	-31
	-31
	-31

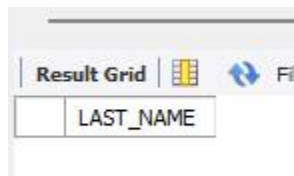
33. Get current date



The screenshot shows a 'Result Grid' with a single column header 'curdate()'. It contains one row with the value '2024-01-19'.

	curdate()
▶	2024-01-19

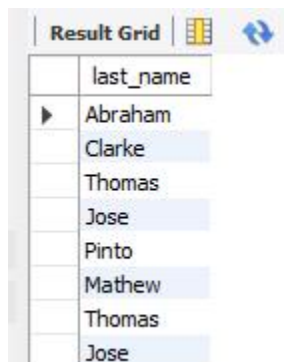
34. Get names of employees from employee table who has '%' in Last\_Name. Tip : Escape character for special characters in a query.



The screenshot shows a 'Result Grid' with a single column header 'LAST\_NAME'. It is currently empty.

	LAST_NAME
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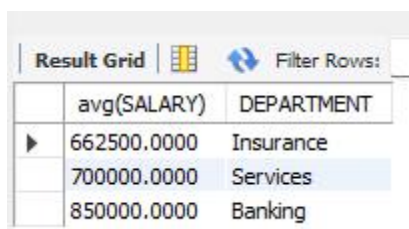
35. Get Last Name from employee table after replacing special character with white space



The screenshot shows a 'Result Grid' with a single column header 'last\_name'. It contains eight rows with the following values: Abraham, Clarke, Thomas, Jose, Pinto, Mathew, Thomas, and Jose.

	last_name
▶	Abraham
	Clarke
	Thomas
	Jose
	Pinto
	Mathew
	Thomas
	Jose

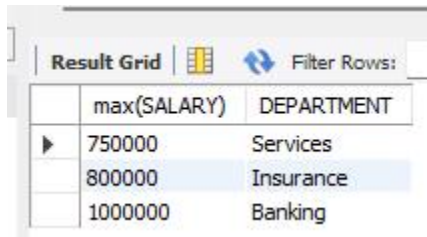
36. Get department wise average salary from employee table order by salary ascending



The screenshot shows a 'Result Grid' with two columns: 'avg(SALARY)' and 'DEPARTMENT'. It contains three rows of data.

	avg(SALARY)	DEPARTMENT
▶	662500.0000	Insurance
	700000.0000	Services
	850000.0000	Banking

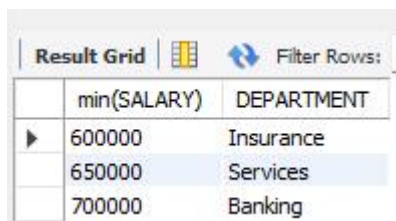
37. Get department wise maximum salary from employee table order by salary ascending



The screenshot shows a 'Result Grid' with a 'Filter Rows' button. The table has two columns: 'max(SALARY)' and 'DEPARTMENT'. The data is ordered by salary in ascending order.

	max(SALARY)	DEPARTMENT
▶	750000	Services
	800000	Insurance
	1000000	Banking

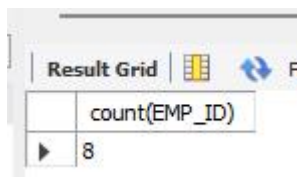
38. Get department wise minimum salary from employee table order by salary ascending



The screenshot shows a 'Result Grid' with a 'Filter Rows' button. The table has two columns: 'min(SALARY)' and 'DEPARTMENT'. The data is ordered by salary in ascending order.

	min(SALARY)	DEPARTMENT
▶	600000	Insurance
	650000	Services
	700000	Banking

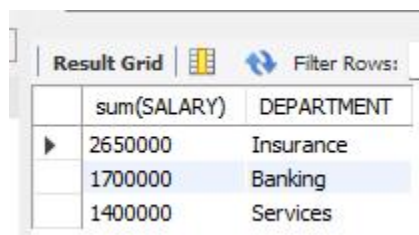
39. Select no of employees joined with respect to year and month from employee table



The screenshot shows a 'Result Grid' with a 'Filter Rows' button. The table has one column: 'count(EMP\_ID)'. The data shows a count of 8.

	count(EMP_ID)
▶	8

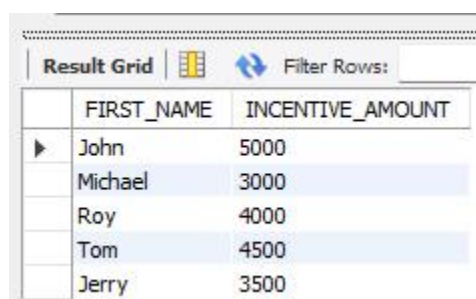
40. Select department, total salary with respect to a department from employee table where total salary greater than 800000 order by Total\_Salary descending



The screenshot shows a 'Result Grid' with a 'Filter Rows' button. The table has two columns: 'sum(SALARY)' and 'DEPARTMENT'. The data is ordered by total salary in descending order.

	sum(SALARY)	DEPARTMENT
▶	2650000	Insurance
	1700000	Banking
	1400000	Services

41. Select first\_name, incentive amount from employee and incentives table for those employees who have incentives





The screenshot shows a 'Result Grid' with a 'Filter Rows' button. The table has two columns: 'FIRST\_NAME' and 'INCENTIVE\_AMOUNT'. The data is ordered by first name in ascending order.

	FIRST_NAME	INCENTIVE_AMOUNT
▶	John	5000
	Michael	3000
	Roy	4000
	Tom	4500
	Jerry	3500

42. Select first\_name, incentive amount from employee and incentives table for those employees who have incentives and incentive amount greater than 3000

Result Grid

Filter Rows:

	FIRST_NAME	INCENTIVE_AMOUNT
▶	John	5000
	Roy	4000
	Tom	4500
	Jerry	3500

43. Select first\_name, incentive amount from employee and incentives table for all employees even if they didn't get incentives

Result Grid

Filter Rows:

	FIRST_NAME	INCENTIVE_AMOUNT
▶	John	5000
	Michael	3000
	Roy	4000
	Tom	4500
	Jerry	3500
	Philip	NULL
	Towino	NULL
	Jeffin	NULL

44. Select first\_name, incentive amount from employee and incentives table for all employees even if they didn't get incentives and set incentive amount as 0 for those employees who didn't get incentives.

Result Grid		Filter Rows:			Edit:		Export/Import:		Wrap Cell Content	
	EMP_ID	FIRST_NAME	LAST_NAME	SALARY	JOINING_DATE	DEPARTMENT	INCENTIVE_AMOUNT			
▶	1	John	Abraham	1000000	2013-01-01 12:00:00	Banking	8000			
	2	Michael	Clarke	800000	2013-01-01 12:00:00	Insurance	3000			
	3	Roy	Thomas	700000	2013-01-01 12:00:00	Banking	4000			
	4	Tom	Jose	600000	2013-01-01 12:00:00	Insurance	4500			
	5	Jerry	Pinto	650000	2013-01-01 12:00:00	Insurance	3500			
	6	Philip	Mathew	750000	2013-01-01 12:00:00	Services	0			
	7	Towino	Thomas	650000	2013-01-01 12:00:00	Services	0			
	8	Jeffin	Jose	600000	2013-01-01 12:00:00	Insurance	0			

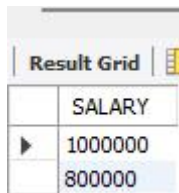
45. Select first\_name, incentive amount from employee and incentives table for all employees who got incentives using left join

Result Grid			Filter Rows:
	FIRST_NAME	INCENTIVE_AMOUNT	
▶	John	5000	
	Michael	3000	
	Roy	4000	
	Tom	4500	
	Jerry	3500	
	Philip	NULL	
	Towino	NULL	
	Jeffin	NULL	

46. Select max incentive with respect to employee from employee and incentives table using sub query

Result Grid		Filter Rows:
	max(INCENTIVE_AMOUNT)	
▶	5000	

**47. Select TOP 2 salary from employee table**



The screenshot shows a 'Result Grid' with a toolbar containing a grid icon and a refresh icon. The grid has two columns: 'SALARY' and an unlabeled column. The first row has a value of 1000000, and the second row has a value of 800000.

	SALARY
▶	1000000
	800000

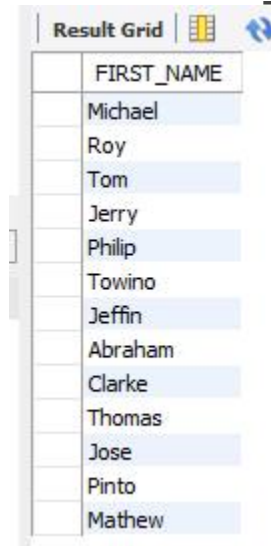
**48. Select 2nd Highest salary from employee table**



The screenshot shows a 'Result Grid' with a toolbar containing a grid icon, a refresh icon, and a 'Filter Rows' button. The grid has two columns: '2nd\_Highest\_salary' and an unlabeled column. The first row has a value of 800000.

	2nd_Highest_salary
▶	800000

**49. Select First\_Name, LAST\_NAME from employee table as separate rows**



The screenshot shows a 'Result Grid' with a toolbar containing a grid icon, a refresh icon, and a 'Filter Rows' button. The grid has two columns: 'FIRST\_NAME' and an unlabeled column. The first column lists the first names of employees: Michael, Roy, Tom, Jerry, Philip, Towino, Jeffin, Abraham, Clarke, Thomas, Jose, Pinto, and Mathew.

	FIRST_NAME
	Michael
	Roy
	Tom
	Jerry
	Philip
	Towino
	Jeffin
	Abraham
	Clarke
	Thomas
	Jose
	Pinto
	Mathew

**50. Select employee details from employee table if data exists in incentive table ?**



The screenshot shows a 'Result Grid' with a toolbar containing a grid icon, a refresh icon, a 'Filter Rows' button, an 'Edit' button, an 'Export/Import' button, and a 'Wrap Cell Content' button. The grid has eight columns: 'EMP\_ID', 'FIRST\_NAME', 'LAST\_NAME', 'SALARY', 'JOINING\_DATE', 'DEPARTMENT', and 'INCENTIVE\_AMOUNT'. The first five rows show employee details with their respective incentives.

	EMP_ID	FIRST_NAME	LAST_NAME	SALARY	JOINING_DATE	DEPARTMENT	INCENTIVE_AMOUNT
▶	1	John	Abraham	1000000	2013-01-01 12:00:00	Banking	5000
	2	Michael	Clarke	800000	2013-01-01 12:00:00	Insurance	3000
	3	Roy	Thomas	700000	2013-01-01 12:00:00	Banking	4000
	4	Tom	Jose	600000	2013-01-01 12:00:00	Insurance	4500
	5	Jerry	Pinto	650000	2013-01-01 12:00:00	Insurance	3500

**51. Select 20 % of salary from John , 10% of Salary for Roy and for other 15 % of salary from employee table**



Result Grid		
	FIRST_NAME	Amount
▶	John	200000.0
	Michael	120000.00
	Roy	70000.00
	Tom	90000.00
	Jerry	97500.00
	Philip	112500.00
	Towino	97500.00
	Jeffin	90000.00

52. Select Banking as 'Bank Dept', Insurance as 'Insurance Dept' and Services as 'Services Dept' from employee table

Result Grid	
	Department
▶	Bank Dept
	Insurance Dept
	Services Dept

53. Delete employee data from employee table who got incentives in incentive table

54. Insert into employee table Last Name with " ' " (Single Quote - Special Character

Result Grid	
	last_name
▶	Abraham'
	Clarke'
	Thomas'
	Jose'
	Pinto'
	Mathew'
	Thomas'
	Jose'

55. Update incentive table where employee name is 'John'

EMP_ID	FIRST_NAME	LAST_NAME	SALARY	JOINING_DATE	DEPARTMENT	INCENTIVE_AMOUNT
▶ 1	John	Abraham	1000000	2013-01-01 12:00:00	Banking	8000