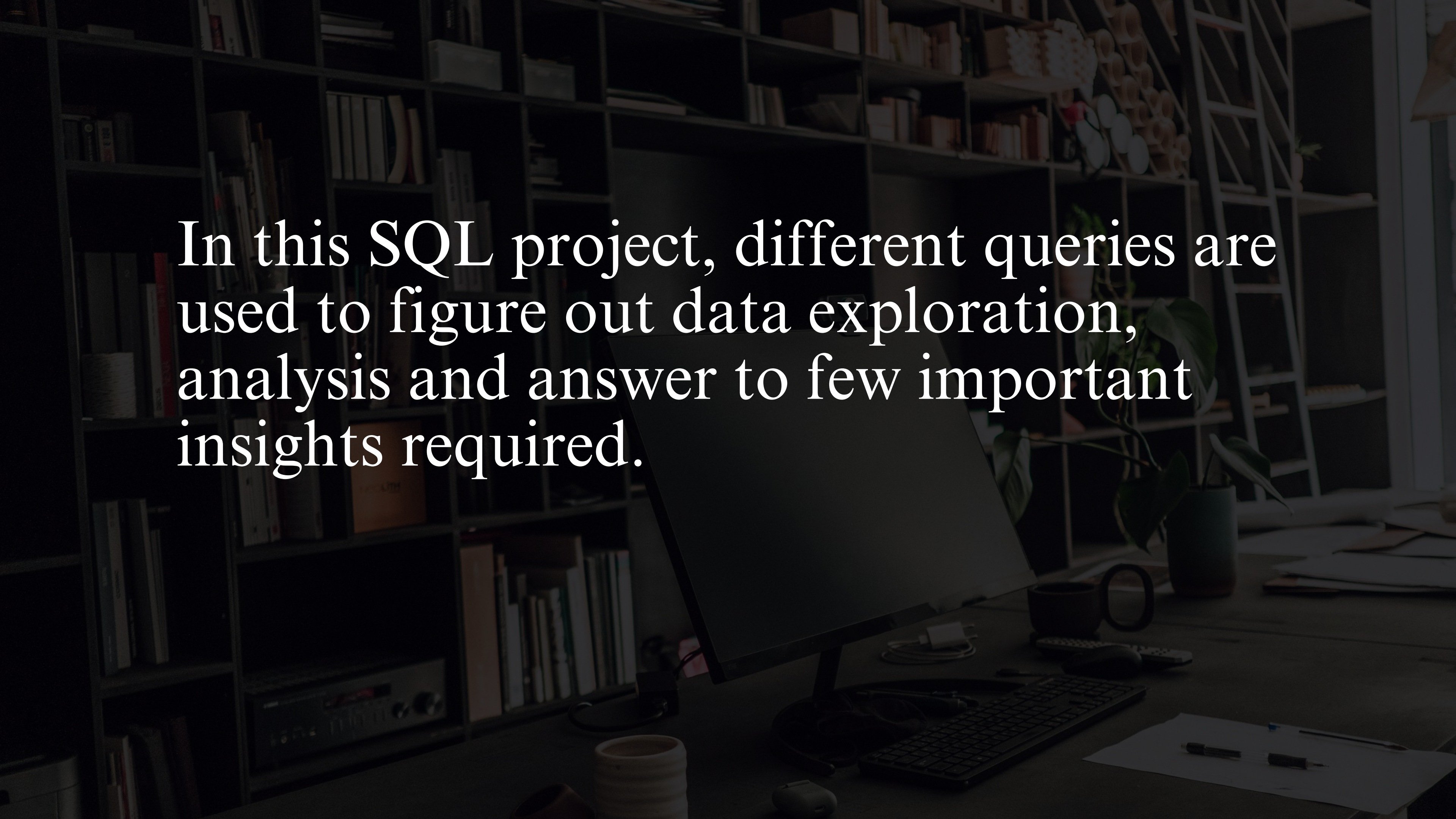




SQL PROJECT ON EMPLOYEES SALARIES



The background image shows a workspace with a large, dark-colored bookshelf filled with books. In the foreground, a desk holds a computer monitor, a keyboard, a mouse, a cup, and some papers. A potted plant is also visible on the desk. The overall lighting is low, creating a focused and quiet atmosphere.

In this SQL project, different queries are used to figure out data exploration, analysis and answer to few important insights required.

Limit to 1000 rows

```
1  -- show all columns and rows in the table
```

```
2
```

```
3 • SELECT * FROM salaries;
```

```
4
```

```
5
```

```
6
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content: | Fetch rows: |

	Id	EmployeeName	JobTitle	BasePay	OvertimePay	OtherPay	Benefits	TotalPay	TotalPayBenefits	Year	Notes	Agency	Status
▶	1	NATHANIEL FORD	GENERAL MANAGER-METROPOLITAN TRANSIT ...	167411.18	0	400184.25		567595.43	567595.43	2011		San Francisco	
	2	GARY JIMENEZ	CAPTAIN III (POLICE DEPARTMENT)	155966.02	245131.88	137811.38		538909.28	538909.28	2011		San Francisco	
	3	ALBERT PARDINI	CAPTAIN III (POLICE DEPARTMENT)	212739.13	106088.18	16452.6		335279.91	335279.91	2011		San Francisco	
	4	CHRISTOPHER CHONG	WIRE ROPE CABLE MAINTENANCE MECHANIC	77916	56120.71	198306.9		332343.61	332343.61	2011		San Francisco	
	5	PATRICK GARDNER	DEPUTY CHIEF OF DEPARTMENT,(FIRE DEPART...	134401.6	9737	182234.59		326373.19	326373.19	2011		San Francisco	
	6	DAVID SULLIVAN	ASSISTANT DEPUTY CHIEF II	118602	8601	189082.74		316285.74	316285.74	2011		San Francisco	
	7	ALSON LEE	BATTALION CHIEF, (FIRE DEPARTMENT)	92492.01	89062.9	134426.14		315981.05	315981.05	2011		San Francisco	
	8	DAVID KUSHNER	DEPUTY DIRECTOR OF INVESTMENTS	256576.96	0	51322.5		307899.46	307899.46	2011		San Francisco	
	9	MICHAEL MORRIS	BATTALION CHIEF, (FIRE DEPARTMENT)	176932.64	86362.68	40132.23		303427.55	303427.55	2011		San Francisco	
	10	JOANNE HAYES-WHITE	CHIEF OF DEPARTMENT, (FIRE DEPARTMENT)	285262	0	17115.73		302377.73	302377.73	2011		San Francisco	
	11	ARTHUR KENNEY	ASSISTANT CHIEF OF DEPARTMENT, (FIRE DEP...	194999.39	71344.88	33149.9		299494.17	299494.17	2011		San Francisco	
	12	PATRICIA JACKSON	CAPTAIN III (POLICE DEPARTMENT)	99722	87082.62	110804.3		297608.92	297608.92	2011		San Francisco	

Limit to 1000 rows

```
1  -- show all columns and rows in the table
2
3  • SELECT * FROM salaries;
4
5  -- show only employee name and job title columns
6
7  • SELECT EmployeeName, JobTitle
8     FROM salaries;
9
10 -- Show the number of employees in the table
11
12 • SELECT COUNT(*) FROM salaries;
13
14 -- Show the unique job titles in the table
15
16 • SELECT DISTINCT(JobTitle) FROM salaries;
17
```


Limit to 1000 rows

```

1  -- Show the job title and overtime pay for all employees with overtime pay greater than 1000
2
3  •  SELECT JobTitle, OvertimePay
4     FROM salaries
5     WHERE OvertimePay > 50000;
6

```

Result Grid | Filter Rows: | Export: | Wrap Cell Content: | Fetch rows:

	JobTitle	OvertimePay
▶	CAPTAIN III (POLICE DEPARTMENT)	245131.88
	CAPTAIN III (POLICE DEPARTMENT)	106088.18
	WIRE ROPE CABLE MAINTENANC...	56120.71
	BATTALION CHIEF, (FIRE DEPART...	89062.9
	BATTALION CHIEF, (FIRE DEPART...	86362.68
	ASSISTANT CHIEF OF DEPARTME...	71344.88
	CAPTAIN III (POLICE DEPARTMENT)	87082.62
	BATTALION CHIEF, (FIRE DEPART...	74050.3
	COMMANDER III, (POLICE DEPAR...	73478.2
	CAPTAIN, EMERGENCYCY MEDIC...	119397.26
	BATTALION CHIEF, (FIRE DEPART...	69626.12
	CAPTAIN, FIRE SUPPRESSION	93200.58
	BATTALION CHIEF, (FIRE DEPART...	77896.14


```
-- Show the top 10 highest paid employees
```

```
• SELECT EmployeeName, TotalPay  
FROM salaries  
ORDER BY TotalPay DESC  
LIMIT 10;
```

Result Grid			Filter Rows:	Export:	Wrap Cell Content:	Fetch
	EmployeeName	TotalPay				
▶	GARY JIMENEZ	538909.28				
	Amy P Hart	390111.98				
	Gary Altenberg	362844.66				
	Samson Lai	347102.32				
	Ellen G Moffatt	344187.46				
	Frederick Binkley	337204.86				
	Khoa Trinh	336393.73				
	Ellen G Moffatt	335537.96				
	Samson Lai	335484.96				
	ALBERT PARDINI	335279.91				





1	-- Show the average base-pay, overtime-pay and other-pay for all employees
2	
3	• SELECT
4	EmployeeName,
5	ROUND(((BasePay + OvertimePay + OtherPay) / 3), 2) AS 'Total Average Pay'
6	FROM
7	salaries;
8	

Result Grid	Filter Rows:	Export:	Wrap Cell Content:	Fetch rows:

	EmployeeName	Total Average Pay
▶	GARY JIMENEZ	179636.43
	ALBERT PARDINI	111759.97
	CHRISTOPHER CHONG	110781.2
	PATRICK GARDNER	108791.06
	DAVID SULLIVAN	105428.58
	ALSON LEE	105327.02
	MICHAEL MORRIS	101142.52
	ARTHUR KENNEY	99831.39
	PATRICIA JACKSON	99202.97
	DAVID FRANKLIN	95449.02
	RICHARD CORRIEA	95404.62
	SEBASTIAN WONG	92856.4
	MARTY ROSS	92144.74
	ELLEN MOFFATT	91516.75
	THOMAS MCKINNEY	91257.07





-- Show all employees who have the word "Manager" in their job title

```
SELECT EmployeeName, JobTitle
FROM salaries
WHERE JobTitle LIKE '%Manager%' ;
```

Result Grid   Filter Rows: <input type="text"/> Export:  Wrap Cell Content: 		
	EmployeeName	JobTitle
▶	AMPARO RODRIGUEZ	NURSE MANAGER
	ROSELYN JEQUINTO	NURSE MANAGER
	JOSEPHINE RAPADAS	NURSE MANAGER
	KATHLEEN MAXWELL	NURSE MANAGER
	LAWRENCE NICHOLLS	NURSE MANAGER
	ELLEN APOLINARIO	NURSE MANAGER
	HARALD SIMS	NURSE MANAGER
	KATHLEEN FLANAGAN	NURSE MANAGER
	LETTIE MILLER	NURSE MANAGER
	KEVIN SPORER	MANAGER IV
	ROBERT WATKINS	MANAGER I
	ARTHUR JARVIS JR	MARINA ASSISTANT MANAGER
	ETHAN BAKER	MARINA ASSISTANT MANAGER

-- Show all employees which job title not equal to "Manager"

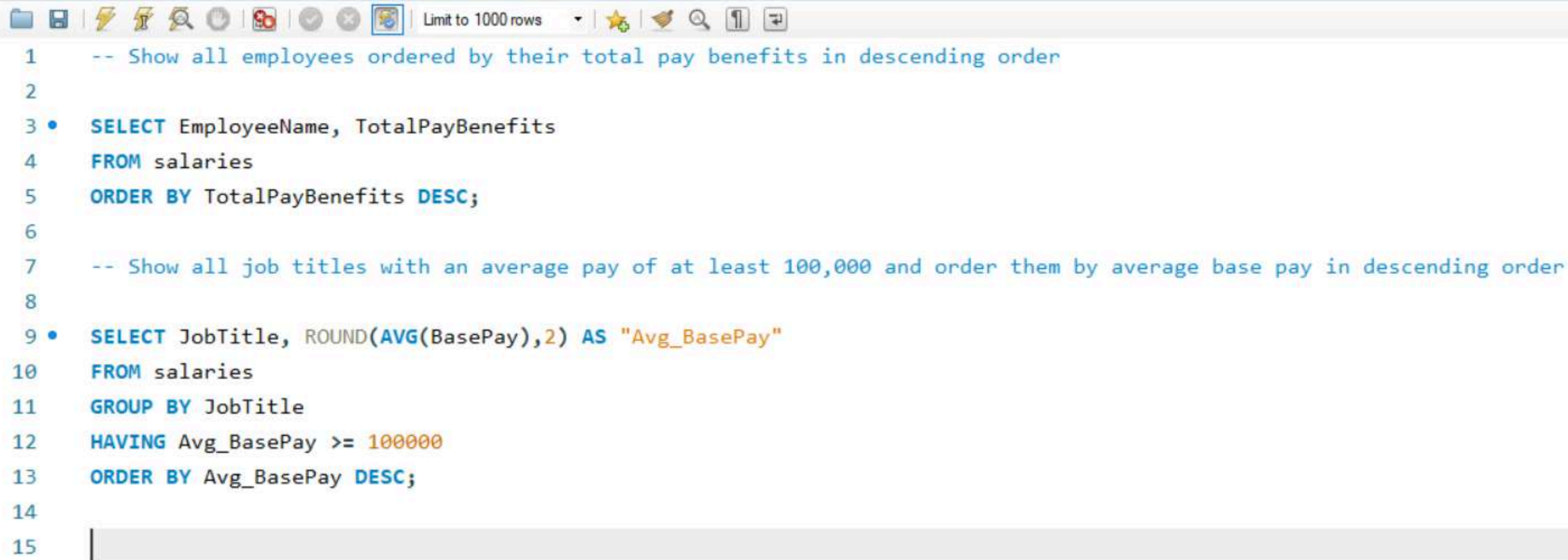
```
• SELECT EmployeeName, JobTitle
FROM salaries
WHERE JobTitle != 'Manager' ;
```

Result Grid  Filter Rows: <input type="text"/> Export:  Wrap Cell Content:  Fetch rows: 		
	EmployeeName	JobTitle
▶	GARY JIMENEZ	CAPTAIN III (POLICE DEPARTMENT)
	ALBERT PARDINI	CAPTAIN III (POLICE DEPARTMENT)
	CHRISTOPHER CHONG	WIRE ROPE CABLE MAINTENANCE MECHANIC
	PATRICK GARDNER	DEPUTY CHIEF OF DEPARTMENT, (FIRE DEPARTMENT)
	DAVID SULLIVAN	ASSISTANT DEPUTY CHIEF II
	ALSON LEE	BATTALION CHIEF, (FIRE DEPARTMENT)
	MICHAEL MORRIS	BATTALION CHIEF, (FIRE DEPARTMENT)
	ARTHUR KENNEY	ASSISTANT CHIEF OF DEPARTMENT, (FIRE DEPARTMENT)
	PATRICIA JACKSON	CAPTAIN III (POLICE DEPARTMENT)
	DAVID FRANKLIN	BATTALION CHIEF, (FIRE DEPARTMENT)
	RICHARD CORRIEA	COMMANDER III, (POLICE DEPARTMENT)
	SEBASTIAN WONG	CAPTAIN, EMERGENCY MEDICAL SERVICES
	MARTY ROSS	BATTALION CHIEF, (FIRE DEPARTMENT)
	ELLEN MOFFATT	ASSISTANT MEDICAL EXAMINER

-- Show all employees with base pay less than 50,000 or total greater than 100,000

- **SELECT** EmployeeName
FROM salaries
WHERE BasePay < 50000 **OR** TotalPay > 100000;

Result Grid		Filter Rows:	Export:	Wrap Cell Content:	Fetch rows:
	EmployeeName				
▶	GARY JIMENEZ				
	ALBERT PARDINI				
	CHRISTOPHER CHONG				
	PATRICK GARDNER				
	DAVID SULLIVAN				
	ALSON LEE				
	MICHAEL MORRIS				
	ARTHUR KENNEY				
	PATRICIA JACKSON				
	DAVID FRANKLIN				
	RICHARD CORRIEA				
	SEBASTIAN WONG				
	MARTY ROSS				
	ELLEN MOFFATT				



The image shows a screenshot of a SQL IDE window. The background is a dark, blurred image of a desk with a keyboard, a mouse, and a cup. The IDE window has a toolbar at the top with various icons for file operations, execution, and search. Below the toolbar, there are two SQL queries. The first query is a comment line followed by a SELECT statement. The second query is also a comment line followed by a SELECT statement with a HAVING clause. The IDE window has a status bar at the bottom that says "Limit to 1000 rows".

```
1  -- Show all employees ordered by their total pay benefits in descending order
2
3  •  SELECT EmployeeName, TotalPayBenefits
4     FROM salaries
5     ORDER BY TotalPayBenefits DESC;
6
7  -- Show all job titles with an average pay of at least 100,000 and order them by average base pay in descending order
8
9  •  SELECT JobTitle, ROUND(AVG(BasePay),2) AS "Avg_BasePay"
10     FROM salaries
11     GROUP BY JobTitle
12     HAVING Avg_BasePay >= 100000
13     ORDER BY Avg_BasePay DESC;
14
15
```


Limit to 1000 rows

```
1  -- Update the base pay of all employees with the job title "Manager" by increasing it 10%
2
3  •  UPDATE salaries
4     SET BasePay = BasePay * 1.1
5     WHERE JobTitle LIKE "%Manager" ;
6
7  -- Delete all employees who don't have Overtime pay
8
9  •  DELETE FROM salaries
10     WHERE OvertimePay = 0;
11
```




THANK YOU

SEE YOU NEXT

<https://github.com/Soumyankar-96>