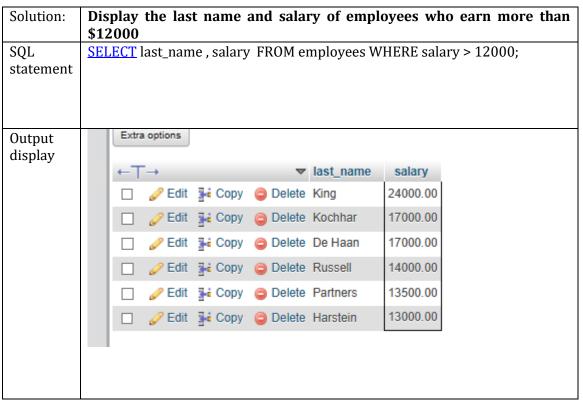


Course : BIT 21404 Database
Session : II 2024/2025
Lab task : 4
Name : MUHAMMAD LUQMAN BIN BAHRIN

Matric No : AI230278

Lab 4 Assignment

- ** Please refer to the notes on Lab 4 for the respective solution.
 - 1. The HR department needs a report that displays the last name and salary of employees who earn more than \$12,000.





2. The HR department needs to find high-salary and low-salary employees. Modify solution for question (1) to display the last name and salary for any employee whose salary is not in the range of \$5,000 to \$12,000.

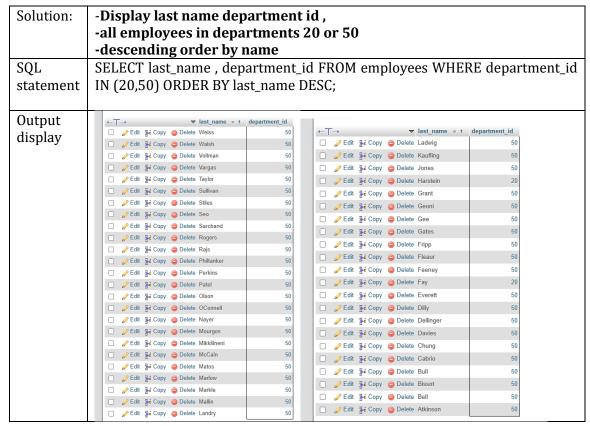
Solution:	-DISPLAY the employees salary not between range 5000 to 12000									
SQL	SELECT last_name, salary									
statement	FROM employees WHERE salary NOT BETWEEN 5000 AND 12000;									
Output										
display	← T→									
	☐ Ø Edit ♣ Copy Delete King 24000.00									
	☐ Ø Edit ♣ Copy Delete Kochhar 17000.00									
	☐ Ø Edit ♣ Copy Delete De Haan 17000.00									
	☐ Ø Edit ¾ Copy Delete Austin 4800.00									
	☐ Ø Edit ♣ Copy Delete Pataballa 4800.00									
	☐ Ø Edit ♣ Copy Delete Lorentz 4200.00									
	☐ Ø Edit ♣ Copy Delete Khoo 3100.00									
	☐ Ø Edit ♣ Copy Delete Baida 2900.00									
	☐ Ø Edit ♣ Copy Delete Tobias 2800.00									
	☐ Ø Edit ♣ Copy Delete Himuro 2600.00									
	☐ Ø Edit ♣ Copy Delete Colmenares 2500.00									
	☐ Ø Edit ♣ Copy Delete Nayer 3200.00									
	☐ Ø Edit ♣ Copy ⊜ Delete Mikkilineni 2700.00									
	☐ Ø Edit ♣ Copy Delete Landry 2400.00									
	☐ Ø Edit ♣ Copy ⊜ Delete Markle 2200.00									
	☐ Ø Edit ♣ Copy Delete Bissot 3300.00									
	☐ Ø Edit ♣ Copy ⊜ Delete Atkinson 2800.00									
	☐ Ø Edit ♣ Copy ⊜ Delete Marlow 2500.00									
	☐ Ø Edit ♣ Copy ⊜ Delete Olson 2100.00									
	☐ Ø Edit ♣ Copy Delete Mallin 3300.00									
	☐ Edit Copy Delete Rogers 2900.00									
	☐ Ø Edit ♣ Copy Delete Gee 2400.00									
	☐ Ø Edit ♣ Copy ⊜ Delete Philtanker 2200.00									
	☐ Ø Edit ♣ Copy Delete Ladwig 3600.00									
	☐ Edit Copy Delete Stiles 3200.00									



3. Create a report to display the last name, job ID, and hire date for employees with the last names of Matos and Taylor. Order the query in ascending order by the hire date.

names of Matos and Taylor. Order the query in ascending order by the fire date.										
Solution:	-Display last_name , job_id hire date									
	-who the employees with the last name of Matos and Taylor									
	-hire date asc order									
SQL	SELECT last_name , job_id , hire_date FROM employees WHERE last_name IN									
statemen	('Matos', 'Taylor') ORDER BY hire_date ASC;									
t	(Matos, Taylor) ONDERDI MIC_date Mod,									
Outrout										
Output		_	last same	into in	bine data .					
display	← →	~	last_name	job_id	hire_date 🔺 1					
	☐ Ø Edit	Copy 🔵 Delete	Taylor	SH_CLERK	1998-01-24					
	☐ Ø Edit j	Copy 🔵 Delete	Matos	ST_CLERK	1998-03-15					
	☐ Ø Edit 3	Copy 😊 Delete	Taylor	SA_REP	1998-03-24					
		,		1						
	_									

4. Display the last name and department ID of all employees in departments 20 or 50 in descending alphabetical order by name.





5. Modify solution for question (3) to display the last name and salary on employees who earn between \$5,000 and \$12,000, and are in department 20 or 50. Label the columns Employee and Monthly Salary, respectively.

Solution: SQL statemen t	-earn between 5000 and 12000 -are in department 20 and 50 -label the column as employee and monthly salary SELECT last_name AS 'Employee', salary AS 'Monthly Salary' From employees WHERE salary BETWEEN 5000 AND 12000 AND departmend_id IN (20,50);								
Output display		\leftarrow T	\rightarrow		\forall	'Employee'	Monthly Salary		
uispiay	П				lown arrow		6000.00		
	ı		Luit	ggle colum	n's visibilit Delete	veiss	800.00		
				≩- Copy	Delete	Fripp	8200.00		
				≩ сору	Delete	Kaufling	7900.00		
	П			≩- Сору	Delete	Vollman	6500.00		
				≩ сору	Delete	Mourgos	5800.00		

6. The HR department needs a report that displays the last name and hires date for all employees who were hired in 1994.

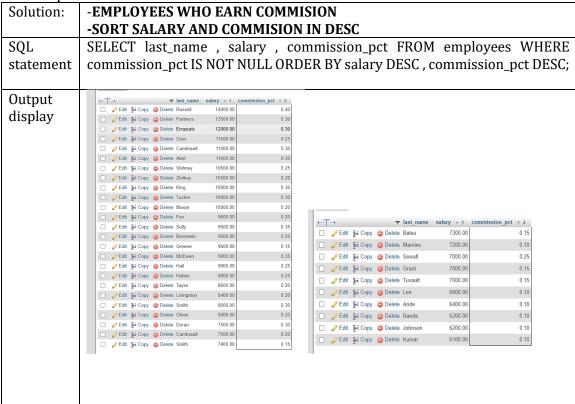
	to were filled in 1994.										
Solution:	-LAST NAME										
	-EMPLOYEES WHO WERE HIRED IN 1994										
SQL	SELECT last_name,hire_date FROM employees WHERE YEAR(hire_date) =										
statement	1994;										
Output											
display	← T→ ■ last_name hire_date										
	Click the drop-down arrow Greenberg 1994-08-17 to toggle column's visibility.										
	Copy Delete Faviet 1994-08-16										
	☐ Ø Edit ♣ Copy Delete Raphaely 1994-12-07										
	☐										
	☐ Ø Edit ♣ Copy Delete Baer 1994-06-07										
	☐ Ø Edit ♣ Copy Delete Higgins 1994-06-07										
	☐ Ø Edit ♣ Copy Delete Gietz 1994-06-07										



7. Create a report to display the last name and job title of all employees who do not have a manager.

Solution:	-MANAGER IS NULL								
SQL	SELECT last_name, job_id FROM employees WHERE manager_id IS NULL;								
statement									
Output									
display	← T→ ▼ last_name job_id								
	☐ Ø Edit ♣ Copy Delete King AD_PRES								

8. Create a report to display the last name, salary, and commission of all employees who earn commission. Sort data in descending order of salary and commissions. Use the column's numeric position in the ORDER BY clause.





9. Display the last names of all employees who have both an "a" and an "e" in their last name.

Solution:	-w	ho	have	both a	and e	in thei	r last na	ame				
SQL	SE	SELECT last_name FROM employees WHERE last_name LIKE '%a%' AND										
statement	las	st_name LIKE '%e%';										
Output												
display		←T		⊒.: Conv	Delete	last_name	1					
		lä	_		Delete							
			_	_	Delete							
				_		Colmenares						
			_		Delete							
			_	_	Delete							
			<i></i> €dit	- Copy	Delete	Philtanker						
				≩ i Copy	Delete	Patel						
				≩ i Copy	Delete	Davies						
				≩ сору	Delete	Partners						
				≩	Delete	Errazuriz						
				≩ сору	Delete	Sewall						
				≩ i Copy	Delete	Ande						
				≩	Delete	Bates						
					Delete							
				_	Delete							
				_	Delete							
				_	Delete							
			_	_	Delete							
			Ø Edit	≟ i Copy	Delete	Baer						