Practice 3

Part 1

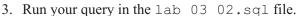
1. Write a query to display the system date. Label the column as Date.

Note: If your database is remotely located in a different time zone, the output will be the date for the operating system on which the database resides.



20

2. The HR department needs a report to display the employee number, last name, salary, and salary increased by 15.5% (expressed as a whole number) for each employee. Label the column New Salary. Save your SQL statement in a file named lab_03_02.sql.



7 0 001	40	<u> </u>	<u> </u>					
	£	EMPLOYEE_ID	LAST_NAME	2	SALARY	New Salary		
1		100	King		24000	27720		
2		101	Kochhar		17000	19635		
3		102	De Haan		17000	19635		
4		103	Hunold		9000	10395		
5		104	Ernst		6000	6930		
6		107	Lorentz		4200	4851		
7		124	Mourgos		5800	6699		
8		141	Rajs		3500	4043		
9		142	Davies		3100	3581		
10		143	Matos		2600	3003		
•••								
19		205	Higgins		12000	13860		

206 Gietz

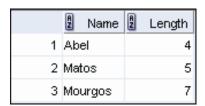
4. Modify your query lab_03_02.sql to add a column that subtracts the old salary from the new salary. Label the column Increase. Save the contents of the file as lab_03_04.sql. Run the revised query.

8300

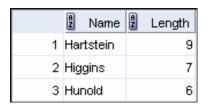
	£	EMPLOYEE_ID	LAST_NAME	A	SALARY	A	New Salary	A	Increase
1		100	King		24000		27720		3720
2		101	Kochhar		17000		19635		2635
3		102	De Haan		17000		19635		2635
4		103	Hunold		9000		10395		1395
5		104	Ernst		6000		6930		930
111									
20		206	Gietz		8300		9587		1287

Practice 3 (continued)

5. Write a query that displays the last name (with the first letter in uppercase and all the other letters in lowercase) and the length of the last name for all employees whose name starts with the letters "J," "A," or "M." Give each column an appropriate label. Sort the results by the employees' last names.

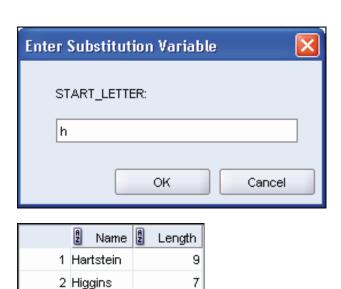


Rewrite the query so that the user is prompted to enter a letter that the last name starts with. For example, if the user enters "H" (capitalized) when prompted for a letter, then the output should show all employees whose last name starts with the letter "H."



3 Hunold

Modify the query such that the case of the entered letter does not affect the output. The entered letter must be capitalized before being processed by the SELECT query.



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Practice 3 (continued)

6. The HR department wants to find the duration of employment for each employee. For each employee, display the last name and calculate the number of months between today and the date on which the employee was hired. Label the column as MONTHS_WORKED. Order your results by the number of months employed. Round the number of months up to the closest whole number.

Note: Because this query depends on the date when it was executed, the values in the MONTHS WORKED column will differ for you.

	LAST_NAME	MONTHS_WORKED
1	Zlotkey	88
2	Mourgos	90
3	Grant	96
4	Lorentz	100
5	Vargas	107
6	Taylor	110
7	Matos	111
8	Fay	117
9	Davies	124
10	Abel	133
11	Hartstein	135
12	Rajs	139
13	Higgins	156
14	Gietz	156
15	De Haan	173
16	Ernst	192
17	Hunold	209
18	Kochhar	212
19	Whalen	236
20	King	239

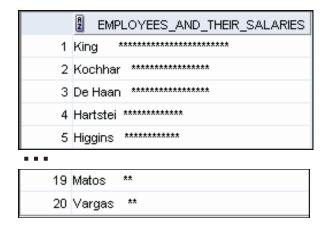
Practice 3 (continued)

If you have time, complete the following exercises:

7. Create a query to display the last name and salary for all employees. Format the salary to be 15 characters long, left-padded with the \$ symbol. Label the column as SALARY.



8. Create a query that displays the first eight characters of the employees' last names and indicates the amounts of their salaries with asterisks. Each asterisk signifies a thousand dollars. Sort the data in descending order of salary. Label the column as EMPLOYEES AND THEIR SALARIES.



9. Create a query to display the last name and the number of weeks employed for all employees in department 90. Label the number of weeks column as TENURE. Truncate the number of weeks value to 0 decimal places. Show the records in descending order of the employee's tenure.

Note: The TENURE value will differ as it depends on the date on which you run the query.

