chapter 12 Amedume to use this Clement yao Amedume to use the Clement yao Amedume license the clement yao Amedume licens Additional Practices and

Practices for Lesson 1

Practices Overview

In these practices, you will be working on extra exercises that are based on the following topics:

- Basic SQL SELECT statement
- Basic SQL Developer commands
- SQL functions



Practice 1-1: Additional Practice

Overview

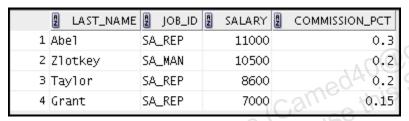
In this practice, exercises have been designed to be worked on after you have discussed the following topics: basic SQL SELECT statement, basic SQL Developer commands, and SQL functions.

Tasks

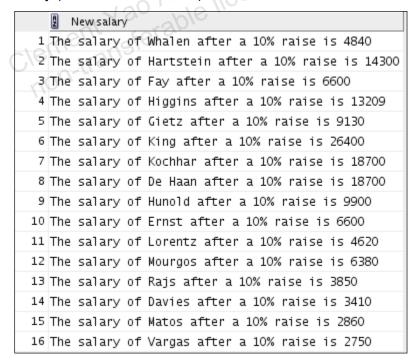
1. The HR department needs to find data for all the clerks who were hired after 1997.



2. The HR department needs a report of employees who earn a commission. Show the last name, job, salary, and commission of these employees. Sort the data by salary in descending order.



3. For budgeting purposes, the HR department needs a report on projected raises. The report should display those employees who have no commission, but who have a 10% raise in salary (round off the salaries).



4. Create a report of employees and their duration of employment. Show the last names of all the employees together with the number of years and the number of completed months that they have been employed. Order the report by the duration of their employment. The employee who has been employed the longest should appear at the top of the list.

	LAST_NAME	2 YEARS	■ MONTHS
3	Higgins	11	11
4	King	10	11
5	Wha1en	10	8
6	Rajs	10	7
7	Hartstein	10	3
8	Abe1	10	0
9	Davies	9	4
10	Fay	8	9
11	Kochhar	8	8
12	Huno1d	8	5
13	Taylor	8	2
14	Matos	8	2
15	Vargas	7	10
16	Lorentz	7	3
17	Grant	7	0
18	Ernst	7	0
19	Mourgos	6	6
20	Zlotkey	6	4

18 Ernst 7 0
19 Mourgos 6 6
20 Zlotkey 6 4

5. Show those employees who have a last name starting with the letters "J," "K," "L," or "M."

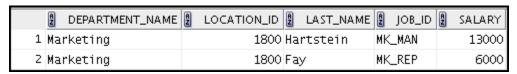


6. Create a report that displays all employees, and indicate with the words *Yes* or *No* whether they receive a commission. Use the DECODE expression in your query.



These exercises can be used for extra practice after you have discussed the following topics: basic SQL SELECT statements, basic SQL Developer commands, SQL functions, joins, and group functions.

7. Create a report that displays the department name, location ID, last name, job title, and salary of those employees who work in a specific location. Prompt the user for a location. For example, if the user enters 1800, results are as follows:



8. Find the number of employees who have a last name that ends with the letter "n." Create two possible solutions.



Create a report that shows the name, location, and number of employees for each department. Make sure that the report also includes department IDs without employees.

	A	DEPARTMENT_ID	DEPARTMENT_NAME	location_id	COUNT(E.EMPLOYEE_ID)
1		80	Sales	2500	3
2		110	Accounting	1700	2
3		60	IT	1400	3
4		10	Administration	1700	1
5		90	Executive	1700	3
6		20	Marketing	1800	2
7		50	Shipping	1500	5
8		190	Contracting	1700	0

10. The HR department needs to find the job titles in departments 10 and 20. Create a report to display the job IDs for those departments.

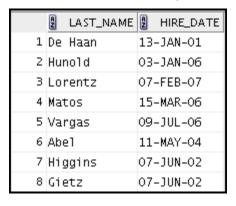


com) has a 11. Create a report that displays the jobs that are found in the Administration and Executive Jume (Camed this icense to use this departments. Also display the number of employees for these jobs. Show the job with the highest number of employees first.



These exercises can be used for extra practice after you have discussed the following topics: basic SQL SELECT statements, basic SQL Developer commands, SQL functions, joins, group functions, and subqueries.

12. Show all the employees who were hired in the first half of the month (before the 16th of the month, irrespective of the year).



13. Create a report that displays the following for all employees: last name, salary, and salary expressed in terms of thousands of dollars.

	LAST_NAME	2 SALARY	1 THOUSANDS
1	King	24000	24
2	Kochhar	17000	17
3	De Haan	17000	17
4	Huno1d	9000	9
5	Ernst	6000	6
6	Lorentz	4200	4
7	Mourgos	5800	5
8	Rajs	3500	3
9	Davies	3100	3
10	Matos	2600	2
11	Vargas	2500	2
12	Zlotkey	10500	10
13	Abel	11000	11
14	Taylor	8600	8
15	Grant	7000	7
16	Wha1en	4400	4
17	Hartstein	13000	13
18	Fay	6000	6
19	Higgins	12008	12
20	Gietz	8300	8

4400 4

Hartstein 13000 13

18 Fay 6000 6

19 Higgins 12008 12

20 Gietz 8300 8

14. Show all the employees who have managers with a salary higher than \$15,000. Show the following data: employee name, manager name, manager salary, and salary grade of the manager.

	LAST_NAME	MANAGER	2 SALARY	grade_level
1	Kochhar S	King	24000	E
7 2	De Haan	King	24000	E
(3	Mourgos	King	24000	E
4	Zlotkey	King	24000	E
5	Hartstein	King	24000	E
6	Whalen	Kochhar	17000	E
7	Higgins	Kochhar	17000	E
8	Huno1d	De Haan	17000	E

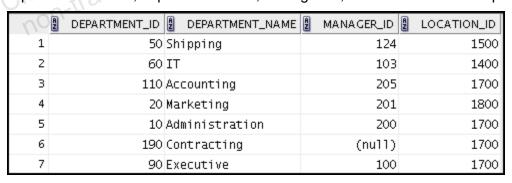
15. Show the department number, name, number of employees, and average salary of all the departments, together with the names, salaries, and jobs of the employees working in each department.

	DEPARTMENT_ID	DEPARTMENT_NAME	EMPLOYEES	AVG_SAL	LAST_NAME	SALARY 2 JOB_ID
1	10	Administration	1	4400.00	Wha1 en	4400 AD_ASST
2	20	Marketing	2	9500.00	Hartstein	13000 MK_MAN
3	20	Marketing	2	9500.00	Fay	6000 MK_REP
4	50	Shipping	5	3500.00	Davies	3100 ST_CLERK
5	50	Shipping	5	3500.00	Matos	2600 ST_CLERK
6	50	Shipping	5	3500.00	Rajs	3500 ST_CLERK
7	50	Shipping	5	3500.00	Mourgos	5800 ST_MAN
8	50	Shipping	5	3500.00	Vargas	2500 ST_CLERK
9	60	IT	3	6400.00	Hunold	9000 IT_PR0G
10	60	IT	3	6400.00	Lorentz	4200 IT_PR0G
11	60	IT	3	6400.00	Ernst	6000 IT_PR0G
12	80	Sales	3	10033.33	Zlotkey	10500 SA_MAN
13	80	Sales	3	10033.33	Abel	11000 SA_REP
14	80	Sales	3	10033.33	Taylor	8600 SA_REP
15	90	Executive	3	19333.33	Kochhar	17000 AD_VP
16	90	Executive	3	19333.33	King,	24000 AD_PRES
17	90	Executive	3	19333.33	De Haan	17000 AD_VP
18	110	Accounting	2	10154.00	Gietz	8300 AC_ACCOUNT
19	110	Accounting	2	10154.00	Higgins	12008 AC_MGR
20	(null)	(null)	me0	No average	Grant	7000 SA_REP

16. Create a report to display the department number and lowest salary of the department with the highest average salary.



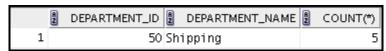
17. Create a report that displays departments where no sales representatives work. Include the department number, department name, manager ID, and location in the output.



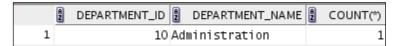
- 18. Create the following statistical reports for the HR department. Include the department number, department name, and the number of employees working in each department that:
 - a. Employs fewer than three employees:

A	DEPARTMENT_ID	DEPARTMENT_NAME	COUNT(*)
1	10	Administration	1
2	110	Accounting	2
3	20	Marketing	2

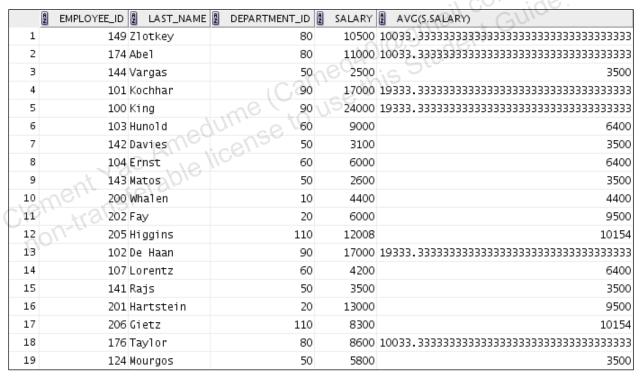
b. Has the highest number of employees:



c. Has the lowest number of employees:



19. Create a report that displays the employee number, last name, salary, department number, and the average salary in their department for all employees.



20. Create an anniversary overview based on the hire date of the employees. Sort the anniversaries in ascending order.

	LAST_NAME	BIRTHDA	Y.
1	Hunold	January	03
	De Haan	January	13
	Davies	January	29
	Zlotkey	January	29
	Lorentz	February	07
	Hartstein	February	17
	Matos	March	15
	Taylor	March	24
	Abe1	May	11
	Ernst	May	21
		_	
12	Higgins	June	07
13	Gietz	June	07
14	King	June	17
15	Vargas	July	09
16	Fay	August	17
17	Wha1en	September	17
18	Kochhar	September	21
19	Rajs	October	17
20	Mourgos	November	16
20	Grant Higgins Gietz King Vargas Fay Whalen Kochhar Rajs Mourgos	November	16