Content

Content1	
Practice 11	
Practice 23	;

Practice 1

- 1. SQL statements are always held in a buffer. True/False.
- 2. SQL*Plus commands assist with querying data. True/False.
- 3. You cannot order by a column that you have not selected. True/False.
- 4. Show the structure of the EMP table.

Name	Null?	Туре			
EMPNO	NOT NULL	NUMBER(4)			
ENAME		VARCHAR2(10)			
JOB		VARCHAR2(9)			
MGR		NUMBER(4)			
HI REDATE		DATE			
SAL		NUMBER(7, 2)			
COMM		NUMBER(7, 2)			
DEPTNO	NOT NULL	NUMBER(2)			

5. Display the name, job title, salary, and department number of the employees earning more than \$1,500 and not working in department 10, in alphabetical order by name, Merge the first name and job, separating them with a comma and a space, and give the column the title "Employees".

Employees	SAL	DEPTNO
ALLEN, SALESMAN	1600	30
BLAKE, MANAGER	2850	30
FORD, ANALYST	3000	20
JONES, MANAGER	2975	20
SCOTT, ANALYST	3000	20

6. Display all employees whose last name contains an S.

JONES
JAMES
SMI TH
SCOTT
ADAMS

7. Display the name, salary, commission, and total annual salary for all employees. Use an alias for the total annual salary. Sort the result by ascending salary. Save your query to a file named p1q7.sql. Remember that when you are using an arithmetic operator with a null value, the results are always nulls.

ENAME	SAL	COMM	Annual Salary
SMI TH	800		9600
JAMES	950		11400
ADAMS	1100		13200
MARTI N	1250	1400	16400
WARD	1250	500	15500
MI LLER	1300		15600
TURNER	1500	0	18000

ALLEN	1600	300	19500
CLARK	2450		29400
BLAKE	2850		34200
JONES	2S75		35100
FORD	3000		36000
SC0TT	3000		36000
KING	5000		60000
14 rows	sel ected.		

8. *Display the customer number, customer name, and order number of all customers and their orders. Display the customer number and name even if they have not placed an order.

CUSTI D	NAME	ORDI D
100	JOCKSPORTS	606
100	JOCKSPORTS	609
100	JOCKSPORTS	620
100	JOCKSPORTS	621
101	TKB SPORT SHOP	610
102	VOLLYRI TE	611
102	VOLLYRI TE	618
102	VOLLYRI TE	602
102	VOLLYRI TE	614
102	VOLLYRI TE VOLLYRI TE	603
103	JUST TENNIS	616
104	EVERY MOUNTAIN	612
104	EVERY MOUNTAIN	619
104	EVERY MOUNTAIN	608
104	EVERY MOUNTAIN	607
105	K + T SPORTS	617
106	SHAPE UP	601
106	SHAPE UP	604
106	SHAPE UP	605
107	WOMENS SPORTS	615
108	NORTH WOODS HEALTH AND FITNESS SUPPLY CENTER	613
21 rows sala	atad	

²¹ rows selected.

9. *Display the employee name and employee number along with their manager's name and manager number. Label the columns Employee, Empno, Manager, and Mgr#, respectively. Your query should also display those employees who have no managers. Display the output in descending order of manager numbers.

EMPLOYEE	EMPNO	MANAGER	MGR#
KI NG	7839		
SMI TH	7369	FORD	7902
JONES	7566	KI NG	7839
CLARK	7782	KI NG	7839
BLAKE	7698	KI NG	7839
ADAMS	7876	SCOTT	7788
MI LLER	7934	CLARK	7782
ALLEN	7499	BLAKE	7698
MARTI N	7654	BLAKE	7698
WARD	7521	BLAKE	7698
JAMES	7900	BLAKE	7698
TURNER	7844	BLAKE	7698

SCOTT	7788	JONES	7566
FORD	7902	JONES	7566

14 rows selected.

 $10.\,\,\,^{\star}$ Display the department number and name for all departments without employees.

DEPTNO	DNAME
40	OPERATI ONS

Practice 2

- 1. Single-row functions work on many rows to produce a single result. True/False.
- 2. You can use all of the arithmetic operators on date values. True/False.
- 3. Display the employee numbers, names, and salaries increased by 15%, expressed to the nearest whole number of all employees. The report should look like the output below.

EMPNO	ENAME	NEW SALARY
7839	KI NG	5750
7698	BLAKE	3278
7782	CLARK	2818
7566	JONES	3421
7654	MARTI N	1438
7499	ALLEN	1840
7844	TURNER	1725
7900	JAMES	1093
7521	WARD	1438
7902	FORD	3450
7369	SMI TH	920
7788	SC0TT	3450
7876	ADAMS	1265
7934	MI LLER	1495
14 rows	sel ected.	

4. Display each employee's name and job title in parentheses for all employees. The report should look like the output below.

EMPLOYEE -----King (president) Blake (manager) Clark (manager) Jones (manager) Martin (salesman) Allen (salesman) Turner (salesman) James (clerk) Ward (salesman) Ford (analyst) Smith (c1erk) Scott (analyst) Adams (clerk) Miller (clerk) 14 rows selected.

5. Display name, hire date, and salary review date, which is the first Monday after six months of service for those employees who were hired after 01-SEP-81. The date should be entered in the format 01.09.1981. Format the dates to appear in the format Eighth of May 1982.

ENAME	HI REDATE	REVI EW
MARTI N	28-SEP-81	Twenty-Ninth of March 1982
SCOTT	19-APR-87	Twenty-Sixth of October 1987
KING	17-NOV-81	Twenty-Fourth of May 1982
TURNER	08-SEP-81	Fifteenth of March 1982
ADAMS	23-MAY-87	Thirtieth of November 1987
JAMES	03-DEC-81	Seventh of June 1982
FORD	03-DEC-81	Seventh of June 1982
MI LLER	23-JAN-82	Twenty-Sixth of July 1982
8 rows selected.		

6. Display the day on which you were born. The output should look like the example below (25-SEP-59 is the birthday in the example):

My	bi	rt	hda	ay				
					 	 	 	-
Fri	da	У						

7. *Display the name for all employees, their hire date, and the day of the week that they started. Order the results by the day of the week, starting with Monday.

ENAME	HI REDATE	Day
MARTI N	28-SEP-81	MONDAY
KI NG	17-NOV-81	TUESDAY
TURNER	08-SEP-81	TUESDAY
CLARK	09-JUN-81	TUESDAY
SMI TH	17-DEC-80	WEDNESDAY
ADAMS	12-JAN-83	WEDNESDAY
JONES	02-APR-81	THURSDAY
SCOTT	09-DEC-82	THURSDAY
FORD	03-DEC-81	THURSDAY
JAMES	03-DEC-81	THURSDAY
BLAKE	01-MAY-81	FRI DAY
ALLEN	20-FEB-81	FRI DAY
MI LLER	23-JAN-82	SATURDAY
WARD	22-FEB-81	SUNDAY

8. *Write a query that produces the following for each employee: <employee name> earns <salary> monthly, but wants <3 times salary>.

Dream Salaries

14 rows selected.

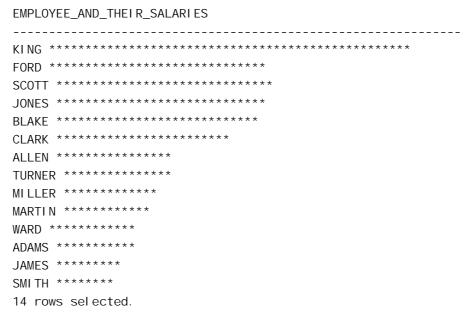
KING earns \$5,000 monthly, but wants \$15,000.
BLAKE earns \$2,850 monthly, but wants \$8,550.
CLARK earns \$2,450 monthly, but wants \$7,350.
JONES earns \$2,975 monthly, but wants \$8,925.
MARTIN earns \$1,250 monthly, but wants \$3,750.
ALLEN earns \$1,600 monthly, but wants \$4,800.
TURNER earns \$1,500 monthly, but wants \$4,500.

```
JAMES earns $950 monthly, but wants $2,850. WARD earns $1,250 monthly, but wants $3,750. FORD earns $3,000 monthly, but wants $9,000. SMITH earns $800 monthly, but wants $2,400. SCOTT earns $3,000 monthly, but wants $9,000. ADAMS earns $1,100 monthly, but wants $3,300. MILLER earns $1,300 monthly, but wants $3,900. 14 rows selected.
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9. *Create a query that will display the employee name and commission amount. If the employee does not earn commission, enter "No Commission" label the column COMM.

ENAME	COMM	
SMI TH	No Commission	
ALLEN	300	
WARD	500	
JONES	No Commission	
MARTI N	1400	
BLAKE	No Commission	
CLARK	No Commission	
SCOTT	No Commission	
KING	No Commission	
TURNER	0	
ADAMS	No Commission	
JAMES	No Commission	
FORD	No Commission	
MILLER No Commission		
14 rows selected	l.	

10. *Create a query that displays the employees' names and indicates the amounts of their salaries through asterisks. Each asterisk signifies a hundred dollars. Sort the data in descending order of salary. Label the col umn EMPLOYEE_AND_THEI R_SALARI ES.



 $11.~^{t}$ Write a query that displays the grade of all employees based on the value of the column JOB, as per the table shown below:

JOB	GRADE
CLERK	E
SALESMAN	D
ANALYST	С
MANAGER	В
PRESI DENT	А
None of the above	0

JOB	GRADE	
CLERK	E	
SALESMAN	D	
SALESMAN	D	
MANAGER	В	
SALESMAN	D	
MANAGER	В	
MANAGER	В	
ANALYST	С	
PRESI DENT	Α	
SALESMAN	D	
CLERK	E	
CLERK	E	
ANALYST	С	
CLERK	E	
14 rows selected.		