BASIC SQL

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Emp table data

EMPNO	ENAME	JOB	MGR	HIREDATE	SAL	COMM	DEPTNO
7369	SMITH	CLERK	7902	17-Dec-80	800		20
7499	ALLEN	SALESMAN	7698	20-Feb-81	1600	300	30
7521	WARD	SALESMAN	7698	22-Feb-81	1250	500	30
7566	JONES	MANAGER	7839	02-Apr-81	2975	7,000,000	20
7654	MARTIN	SALESMAN	7698	28-Sep-81	1250	1400	30
7698	BLAKE	MANAGER	7839	01-May-81	2850		30
7782	CLARK	MANAGER	7839	09-Jun-81	2450		10
7788	SCOTT	ANALYST	7566	09-Dec-82	3000		20
7839	KING	PRESIDENT		17-Nov-81	5000	00-00	10
7844	TURNER	SALESMAN	7698	08-Sep-81	1500	0	30
7876	ADAMS	CLERK	7788	12-Jan-83	1100		20
7900	JAMES	CLERK	7698	03-Dec-81	950		30
7902	FORD	ANALYST	7566	03-Dec-81	3000		20
7934	MILLER	CLERK	7782	23-Jan-82	1300		10

Dept table data

DEPTNO	DNAME	LOC
10	ACCOUNTING	NEW YORK
20	RESEARCH	DALLAS
30	SALES	CHICAGO
40	OPERATIONS	BOSTON

Q1. WRITE A QUERY TO DISPLAY EMPLOYEE NAME, JOB, HIREDATE AND EMPLOYEE NUMBER FOR EACH EMPLOYEE WITH EMPLOYEE NUMBER APPEARING FIRST SORTED IN ASCENDING ORDER AND HIRE DATE BETWEEN x AND y

SQL> SELECT EMPNO, ENAME, JOB, HIREDATE FROM EMP where HIREDATE BETWEEN '17-DEC-80' AND '28-SEP-81' ORDER BY (EMPNO);

EMPNO ENAME	E JOB HIREDATE
7369 SMITH 7499 ALLEN	CLERK 17-DEC-80 SALESMAN 20-FEB-81
7521 WARD	SALESMAN 22-FEB-81
7566 JONES	MANAGER 02-APR-81
7654 MARTIN	SALESMAN 28-SEP-81
7698 BLAKE	MANAGER 01-MAY-81
7782 CLARK	MANAGER 09-JUN-81
7844 TURNER	SALESMAN 08-SEP-81

8 rows selected.

Q2. WRITE A QUERY TO DISPLAY UNIQUE JOBS FROM THE EMPLOYEE TABLE WITH SALARY BETWEEN x AND y.

SQL> SELECT DISTINCT(JOB) FROM EMP where SAL BETWEEN 1500 AND 4000;

JOB

ANALYST

MANAGER

SALESMAN

Q3. WRITE A QUERY TO DISPLAY NAME CONCATENATED BY A JOB SEPARATED BY A COMMA.

SQL> SELECT ENAME | | ',' | | JOB FROM EMP;

ENAME||','||JOB

SMITH,CLERK

ALLEN, SALESMAN

WARD, SALESMAN

JONES, MANAGER

MARTIN, SALESMAN

BLAKE, MANAGER

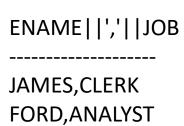
CLARK, MANAGER

SCOTT, ANALYST

KING, PRESIDENT

TURNER, SALESMAN

ADAMS, CLERK



14 rows selected.

MILLER, CLERK

Q4. WRITE A QUERY TO DISPLAY ALL DATA FROM EMPLOYEE TABLE. SEPARATE EACH COLUMN BY A COMMA AND NAME THE COLUMN THE_OUTPUT.

SQL> SELECT EMPNO ||','|| ENAME ||','|| JOB ||','|| MGR ||','|| HIREDATE ||','|| SAL ||','|| COMM ||','|| DEPTNO ||','|| DOJ "THE_OUTPUT" FROM EMP;

THE_OUTPUT

7369,SMITH,CLERK,7902,17-DEC-80,800,,20, 7499, ALLEN, SALESMAN, 7698, 20-FEB-81, 1600, 300, 30, 7521,WARD,SALESMAN,7698,22-FEB-81,1250,500,30, 7566, JONES, MANAGER, 7839, 02-APR-81, 2975, 20, 7654, MARTIN, SALESMAN, 7698, 28-SEP-81, 1250, 1400, 30, 7698,BLAKE,MANAGER,7839,01-MAY-81,2850,,30, 7782,CLARK,MANAGER,7839,09-JUN-81,2450,,10, 7788,SCOTT,ANALYST,7566,19-APR-87,3000,,20, 7839,KING,PRESIDENT,,17-NOV-81,5000,,10, 7844,TURNER,SALESMAN,7698,08-SEP-81,1500,0,30, 7876, ADAMS, CLERK, 7788, 23-MAY-87, 1100, ,20, 7900, JAMES, CLERK, 7698, 03-DEC-81, 950, 30, 7902,FORD,ANALYST,7566,03-DEC-81,3000,,20, 7934, MILLER, CLERK, 7782, 23-JAN-82, 1300, 10,

14 rows selected.

Q5. WRITE A QUERY TO DISPLAY NAME AND SALARY OF EMPLOYEES EARNING MORE THAN \$2850.

SQL> SELECT ENAME, SAL FROM EMP where SAL>2850;

ENAME	SAL	
JONES	2975	
SCOTT	3000	
KING	5000	
FORD	3000	

Q6. WRITE A QUERY TO DISPLAY EMPLOYEE NAME AND DEPARTMENT NUMBER FOR EMPLOYEE NUMBER 7900.

SQL> SELECT ENAME, DEPTNO FROM EMP where EMPNO=7900;

ENAME	DEPTNC	
JAMES	30	

Q7. WRITE A QUERY TO DISPLAY NAME AND SALARY FOR ALL EMPLOYEES WHOSE SALARY IS NOT IN THE RANGE OF \$1500 AND \$2850.

SQL> SELECT ENAME, SAL FROM EMP where SAL NOT BETWEEN 1500 AND 2850;

ENAME	SAL	
SMITH	800	
WARD	1250	
JONES	2975	
MARTIN	1250	
SCOTT	3000	
KING	5000	
ADAMS	1100	
JAMES	950	
FORD	3000	
MILLER	1300	

10 rows selected.

Q8. WRITE A QUERY TO DISPLAY THE EMPLOYEE NAME, JOB, HIREDATE OF EMPLOYEES HIRED BETWEEN FEB 20,1981 AND MAY 1, 1981. ORDER THE QUERY IN ASCENDING ORDER OF START DATE.

SQL> SELECT ENAME, JOB, HIREDATE FROM EMP where HIREDATE BETWEEN '20-FEB-81' AND '01-MAY-81' ORDER BY(DOJ);

LIVAIVIL	JOB 1111	(LDAIL
ALLEN	SALESMAN	 20-FEB-81
WARD	SALESMAN	22-FEB-81
JONES	MANAGER	02-APR-81
BLAKE	MANAGER	01-MAY-81

HIRFDATE

 $I\cap R$

FNAME

Q9. WRITE A QUERY TO DISPLAY EMPLOYEE'S NAME AND DEPARTMENT NUMBER OF ALL EMPLOYEES IN DEPARTMENT 10 AND 30 IN ALPHABETICAL ORDER BY NAME

SQL> SELECT ENAME, DEPTNO FROM EMP where (DEPTNO=10 OR DEPTNO=30) ORDER BY(ENAME);

ENAME	DEPTNO	
ALLEN	30	
BLAKE	30	

CLARK	10
JAMES	30
KING	10
MARTIN	30
MILLER	10
TURNER	30
WARD	30

9 rows selected.

Q10. WRITE A QUERY TO DISPLAY THE NAME AND SALARY OF EMPLOYEES WHO EARNED MORE THAN \$1500 AND ARE IN DEPARTMENT 10 OR 30

SQL> SELECT ENAME, SAL FROM EMP where SAL>1500 AND (DEPTNO=10 OR DEPTNO=30);

ENAME	SAL
ALLEN	1600
BLAKE	2850
CLARK	2450
KING	5000

Q11. WRITE A QUERY TO DISPLAY NAME AND HIREDATE OF EVERY EMPLOYEE WHO WAS HIRED IN 1981.

SQL> SELECT ENAME, HIREDATE FROM EMP where TO_CHAR(HIREDATE, 'YY')='81';

ENAME	HIREDATE
ALLEN	20-FEB-81
WARD	22-FEB-81
JONES	02-APR-81
MARTIN	28-SEP-81
BLAKE	01-MAY-81
CLARK	09-JUN-81
KING	17-NOV-81
TURNER	08-SEP-81
JAMES	03-DEC-81
FORD	03-DEC-81

10 rows selected.

Q12. WRITE A QUERY TO DISPLAY NAME AND JOB OF ALL EMPLOYEES WHO DO NOT HAVE A MANAGER

SQL> SELECT ENAME, JOB FROM EMP where MGR IS NULL;

ENAME JOB

KING PRESIDENT

Q13. WRITE A QUERY TO DISPLAY THE NAME, SALARY AND COMMISSION FOR ALL EMPLOYEES WHO EARN COMMISSION. SORT THE DATA IN DESCENDING ORDER OF SALARY AND COMMISSION

SQL> SELECT ENAME, SAL, COMM FROM EMP where COMM>0 ORDER BY(SAL) DESC;

ENAME	SAL	COMM
ALLEN	1600	300
WARD	1250	500

MARTIN 1250 1400

SQL> SELECT ENAME, SAL, COMM FROM EMP where COMM>0 ORDER BY (COMM) DESC;

ENAME	SAL	COMM
MARTIN	1250	1400
WARD	1250	500
ALLEN	1600	300

Q14. WRITE A QUERY TO DISPLAY THE NAMES OF ALL EMPLOYEES WHERE THE THIRD LETTER OF THEIR NAME IS A

SQL> SELECT ENAME FROM EMP where ENAME LIKE '__A%';

ENAME

BLAKE

CLARK

ADAMS

Q15. WRITE A QUERY TO DISPLAY THE NAMES OF ALL EMPLOYEES THAT HAVE 2 R's OR A'S IN THEIR NAME AND ARE IN DEPARTMENT 30 OR THIER MANAGER IS 7788

SQL> SELECT ENAME FROM EMP where (ENAME LIKE '%R%R' OR ENAME LIKE '%A%A') AND (DEPTNO=30 OR MGR=7788);

ENAME

TURNER

Q16. WRITE A QUERY TO DISPLAY THE NAME, JOB, SALARY OF ALL EMPLOYEES WHOSE JOB IS CLERK OR ANALYST AND THEIR SALARY ARE NOT EQUAL TO 1000, 3000 OR 5000.

SQL> SELECT ENAME, JOB, SAL FROM EMP where (JOB='CLERK' OR JOB='ANALYST') AND (SAL NOT IN (1000,3000,5 000));

ENAME	JOB	SAL
SMITH	CLERK	800
ADAMS	CLERK	1100
JAMES	CLERK	950
MILLER	CLERK	1300

Q17. WRITE A QUERY TO DISPLAY NAME, SALARY AND COMMISSION FOR ALL EMPLOYEES WHOSE COMMISSION AMOUNT IS GREATER THAN THEIR SALARY INCREASED BY 5%.

SQL> SELECT ENAME, SAL, COMM FROM EMP where COMM > (SAL+((SAL*5)/100));

ENAME	SAL	COMM
MARTIN	1250	1400

Q18. WRITE A QUERY TO DISPLAY THE CURRENT DATE.

SQL> SELECT SYSDATE FROM DUAL;

SYSDATE

16-Apr-20

Q19. WRITE A QUERY TO DISPLAY THE EMPLOYEE NUMBER, NAME, SALARY AND THE SALARY INCREASED BY 15% EXPRESSED AS A WHOLE NUMBER.

SQL> SELECT EMPNO, ENAME, SAL, round (SAL+(.15*SAL)) "INCREASED SALARY" FROM EMP;

EMPNO ENAME	SAL	INCREASED SALARY
 7369 SMITH	800	920
7499 ALLEN	1600	1840
7521 WARD	1250	1438
7566 JONES	2975	3421
7654 MARTIN	1250	1438
7698 BLAKE	2850	3278
7782 CLARK	2450	2818
7788 SCOTT	3000	3450
7839 KING	5000	5750
7844 TURNER	1500	1725
7876 ADAMS	1100	1265

.

EMPNO ENAME	SAL	INCREASED SALARY
7900 JAMES	950	1093
7902 FORD	3000	3450
7934 MILLER	1300	1495

14 rows selected

Q20. Write a query to display the name, department name and department number for all employees.

SQL> select emp.ename,emp.deptno,dept.dname from emp,dept where emp.deptno=dept.deptno;

ENAME	DEPTNO	DNAME	
SMITH	20	research	
ALLEN	30	sales	
WARD	30	sales	
JONES	20	research	

•

MARTIN 30 sales

BLAKE 30 sales

KING 10 accounting

TURNER 30 sales

ADAMS 20 research

CLARK 10 accounting

10 rows selected

Q21. Write a query to display unique listing of all jobs that are in department 30.

SQL> select distinct job from emp where deptno = 30;

JOB

ANALYST

CLERK

MANAGER

SALESMAN

Q22. Write a query to display the name, job, department number and department name for all employees who work at location 'DALLAS'.

SQL> select emp.ename,emp.job,emp.deptno,dept.dname from emp,dept where (emp.deptno=dept.deptno and dept.loc='dallas');

ENAME	JOB	DEPT	NO DNAME	
				-
SMITH	CLERK	20	research	
JONES	MANAGER	20	research	
SCOTT	ANALYST	20	research	
ADAMS	CLERK	20	research	
FORD	ANALYST	20	research	