LAB SHEET-3

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NO.19PA1A05E9

CSE-C

1.list employee names and their hire dates sorted in the order of their experience.

SELECT ENAME,HIREDATE,((months_between(sysdate,hiredate))/12) AS EXPERIENCE FROM EMP ORDER BY EXPERIENCE

ENAME	HIREDATE	EXPERIENCE
ADAMS	13-JUL-87	33.9955737878335324571883711668657905 2167
SCOTT	13-JUL-87	33.9955737878335324571883711668657905 2167
MILLER	23-JAN-82	39.4686920674034249303066507367582636 4
JAMES	03-DEC-81	39.6057888415969733174034249303066507 3675
FORD	03-DEC-81	39.6057888415969733174034249303066507 3675
KING	17-NOV-81	39.6514877663281561131023496614894464 3567
MARTIN	28-SEP-81	39.7885845405217045001991238550378335 3242
TURNER	08-SEP-81	39.8423479813819195539625647152528872 9592
CLARK	09-JUN-81	40.0896598093389088012743926722421346 0775
BLAKE	01-MAY-81	40.1944985190163281561131023496614894 4642
JONES	02-APR-81	40.2751436803066507367582636399840700 9158
WARD	22-FEB-81	40.3880469061131023496614894464356829 9483
ALLEN	20-FEB-81	40.3934232501991238550378335324571883 7117
SMITH	17-DEC-80	40.5681544329948227797690163281561131 0233

14 rows selected.

2. List managers names and their joining dates completely spelled in alphabetical

order of names.

SELECT ENAME,TO_CHAR(HIREDATE,'DDSPTH MON YEAR') FROM EMP WHERE JOB='MANAGER' ORDER BY ENAME

ENAME   TO_CHAR(HIREDATE,'DDSPTHMONYEAR')

BLAKE   FIRST MAY NINETEEN EIGHTY-ONE

CLARK   NINTH JUN NINETEEN EIGHTY-ONE

JONES   SECOND APR NINETEEN EIGHTY-ONE
3 rows selected.

3. List employee names and their experience in years with names arranged in

descending order.

SELECT ENAME,TO_CHAR(SYSDATE,'YYYY')-TO_CHAR(HIREDATE,'YYYY')EXPERIENCE FROM EMP
ORDER BY ENAME DESC

ENAME	EXPERIENCE
WARD	40
TURNER	40
SMITH	41
SCOTT	34
MILLER	39
MARTIN	40
KING	40
JONES	40
JAMES	40
FORD	40
CLARK	40
BLAKE	40
ALLEN	40
ADAMS	34

14 rows selected.

4. List employee names having a minimum of 2 years experience sorted on experience.

SELECT ENAME FROM EMP WHERE ((months_between(sysdate,hiredate))/12)>=2

ENAME
KING
BLAKE
CLARK
JONES
SCOTT
FORD

SMITH

ALLEN

WARD

TURNER

ADAMS

JAMES

MILLER

MARTIN

14 rows selected.

5. List employee names with all capital letters, with all small letters and with first

letter only as Capital.

SELECT UPPER(ENAME),LOWER(ENAME),INITCAP(ENAME) FROM EMP

UPPER(ENAME)	LOWER(ENAME)	INITCAP(ENAME)
KING	king	King
BLAKE	blake	Blake
CLARK	clark	Clark
JONES	jones	Jones
SCOTT	scott	Scott
FORD	ford	Ford
SMITH	smith	Smith
ALLEN	allen	Allen
WARD	ward	Ward
TURNER	turner	Turner
ADAMS	adams	Adams
JAMES	james	James
MILLER	miller	Miller
MARTIN	martin	Martin

14 rows selected.

6. List employee names with length of the name sorted on length.

SELECT ENAME, LENGTH(ENAME) AS LENGTH FROM EMP ORDER BY LENGTH

ENAME	LENGTH
WARD	4
KING	4

FORD   4

SMITH   5

JONES   5

CLARK   5

BLAKE   5

ALLEN   5

SCOTT   5

JAMES   5

ADAMS   5

MILLER   6

TURNER   6

MARTIN   6

14 rows selected.

7. List employee names appending Sri to the beginning and Garu to the end.

SELECT CONCAT(CONCAT('SRI ',ENAME),' GARU') FROM EMP

 CONCAT(CONCAT('SRI ',ENAME),' GARU')

SRI KING GARU

SRI BLAKE GARU

SRI CLARK GARU

SRI JONES GARU

SRI SCOTT GARU

SRI FORD GARU

SRI SMITH GARU

SRI ALLEN GARU

SRI WARD GARU

SRI TURNER GARU

SRI ADAMS GARU

SRI JAMES GARU

SRI MILLER GARU

SRI MARTIN GARU

14 rows selected.

8. List employee names and month names of joining.

SELECT ENAME,TO_CHAR(HIREDATE,'MONTH') FROM EMP

ENAME	TO_CHAR(HIREDATE,'MONTH')
KING	NOVEMBER
BLAKE	MAY
CLARK	JUNE
JONES	APRIL
SCOTT	JULY
FORD	DECEMBER
SMITH	DECEMBER
ALLEN	FEBRUARY
WARD	FEBRUARY
TURNER	SEPTEMBER
ADAMS	JULY
JAMES	DECEMBER
MILLER	JANUARY
MARTIN	SEPTEMBER

14 rows selected.

9. List employee names and year of joining in words.

SELECT ENAME,TO_CHAR(HIREDATE,'YEAR') FROM EMP

ENAME	TO_CHAR(HIREDATE,'YEAR')
KING	NINETEEN EIGHTY-ONE
BLAKE	NINETEEN EIGHTY-ONE
CLARK	NINETEEN EIGHTY-ONE
JONES	NINETEEN EIGHTY-ONE
SCOTT	NINETEEN EIGHTY-SEVEN
FORD	NINETEEN EIGHTY-ONE
SMITH	NINETEEN EIGHTY
ALLEN	NINETEEN EIGHTY-ONE
WARD	NINETEEN EIGHTY-ONE
TURNER	NINETEEN EIGHTY-ONE
ADAMS	NINETEEN EIGHTY-SEVEN
JAMES	NINETEEN EIGHTY-ONE
MILLER	NINETEEN EIGHTY-TWO
MARTIN	NINETEEN EIGHTY-ONE

14 rows selected.

10. List employees names, job and salary with 5 hyphens in between.

SELECT ENAME ||'-----'|| JOB||'-----'|| SAL FROM EMP

  ENAME||'-----'||JOB||'-----'||SAL

KING-----PRESIDENT-----5000

BLAKE-----MANAGER-----2850

CLARK-----MANAGER-----2450

JONES-----MANAGER-----2975

SCOTT-----ANALYST-----3000

FORD-----ANALYST-----3000

SMITH-----CLERK-----800

ALLEN-----SALESMAN-----1600

WARD-----SALESMAN-----1250

TURNER-----SALESMAN-----1500

ADAMS-----CLERK-----1100

JAMES-----CLERK-----950

MILLER-----CLERK-----1300

MARTIN-----SALESMAN-----1250

14 rows selected.

11. List employee names and position of first occurrence of I in their name.

SELECT ENAME,INSTR(ENAME,'I') FROM EMP

ENAME	INSTR(ENAME,'I')
KING	2
BLAKE	0
CLARK	0
JONES	0
SCOTT	0
FORD	0
SMITH	3
ALLEN	0
WARD	0
TURNER	0
ADAMS	0
JAMES	0
MILLER	2

MARTIN   5

12. List employee names and the string without first character and last character in their name.

SELECT ENAME,SUBSTR(ENAME,2, LENGTH(ENAME)-2) FROM EMP

ENAME	SUBSTR(ENAME,2,LENGTH(ENAME)-2)
KING	IN
BLAKE	LAK
CLARK	LAR
JONES	ONE
SCOTT	COT
FORD	OR
SMITH	MIT
ALLEN	LLE
WARD	AR
TURNER	URNE
ADAMS	DAM
JAMES	AME
MILLER	ILLE
MARTIN	ARTI

14 rows selected.

13. List employees who joined between Apr 81 and Apr 82.

SELECT * FROM EMP WHERE HIREDATE BETWEEN '01-APR-81' AND '30-APR-82'

EMPNO	ENAME	JOB	MGR	HIREDATE	SAL	COMM	DEPTNO
7839	KING	PRESIDENT	-	17-NOV-81	5000	-	10
7698	BLAKE	MANAGER	7839	01-MAY-81	2850	-	30
7782	CLARK	MANAGER	7839	09-JUN-81	2450	-	10
7566	JONES	MANAGER	7839	02-APR-81	2975	-	20
7902	FORD	ANALYST	7566	03-DEC-81	3000	-	20
7844	TURNER	SALESMAN	7698	08-SEP-81	1500	0	30
7900	JAMES	CLERK	7698	03-DEC-81	950	-	30
7934	MILLER	CLERK	7782	23-JAN-82	1300	-	10
7654	MARTIN	SALESMAN	7698	28-SEP-81	1250	1400	30

14. List max sal, min sal and average sal of depts. 10,30.

SELECT MAX(SAL),MIN(SAL),AVG(SAL) FROM EMP WHERE DEPTNO IN (10,30)

MAX(SAL)	MIN(SAL)	AVG(SAL)
5000	950	2016.6666666666666666666666666666666667

15. List the designation in dept 30 but not in 20.

SELECT JOB FROM EMP WHERE DEPTNO IN 30

UNION

SELECT JOB FROM EMP WHERE DEPTNO NOT IN 20

JOB
CLERK
MANAGER
PRESIDENT
SALESMAN

4 rows selected.

16. List the number of employees in each department along with dept numbers.

SELECT COUNT(*) AS EMPLOYEES,DEPTNO FROM EMP GROUP BY DEPTNO

EMPLOYEES	DEPTNO
6	30
3	10
5	20

3 rows selected.

17. List number of employees joined year wise.

SELECT COUNT(*) AS EMPLOYEES,TO_CHAR(HIREDATE,'YYYY')FROM EMP GROUP BY TO_CHAR(HIREDATE,'YYYY')

EMPLOYEES	TO_CHAR(HIREDATE,'YYYY')

10	1981
2	1987
1	1980
1	1982

4 rows selected.

18. List number of employees job wise.

SELECT COUNT(*) AS EMPLOYEES,JOB FROM EMP GROUP BY JOB

EMPLOYEES	JOB
2	ANALYST
4	CLERK
4	SALESMAN
3	MANAGER
1	PRESIDENT

5 rows selected.

19. List max sal, min sal, average salary dept wise.

SELECT MAX(SAL),MIN(SAL),AVG(SAL),DEPTNO FROM EMP GROUP BY DEPTNO

MAX(SAL)	MIN(SAL)	AVG(SAL)	DEPTNO
2850	950	1566.6666666666666666666666666666666667	30
5000	1300	2916.6666666666666666666666666666666667	10
3000	800	2175	20

3 rows selected.

20. List max sal, min sal, average salary job wise.

SELECT MAX(SAL),MIN(SAL),AVG(SAL),JOB FROM EMP GROUP BY JOB

MAX(SAL)	MIN(SAL)	AVG(SAL)	JOB
3000	3000	3000	ANALYST
1300	800	1037.5	CLERK
1600	1250	1400	SALESMAN
2975	2450	2758.3333333333333333333333333333333333	MANAGER
5000	5000	5000	PRESIDENT

5 rows selected.

21. List max sal, min sal for the jobs MANAGER and CLERK.

SELECT MAX(SAL),MIN(SAL) FROM EMP WHERE JOB IN ('MANAGER','CLERK')

MAX(SAL)	MIN(SAL)
2975	800

22. List max sal, min sal AND average salary of the depts. Having a minimum 3 employees.

SELECT DEPTNO,MIN(SAL),MAX(SAL),AVG(SAL) FROM EMP GROUP BY DEPTNO HAVING COUNT(*)>2

DEPTNO	MIN(SAL)	MAX(SAL)	AVG(SAL)
30	950	2850	1566.6666666666666666666666666666666667
10	1300	5000	2916.6666666666666666666666666666666667
20	800	3000	2175

3 rows selected.

23. List the number of employees in each job in each department.

SELECT COUNT(*) AS EMPLOYEES,JOB,DEPTNO FROM EMP GROUP BY JOB, DEPTNO

EMPLOYEES	JOB	DEPTNO
2	CLERK	20
1	MANAGER	20
1	MANAGER	30
1	MANAGER	10
1	PRESIDENT	10
4	SALESMAN	30
2	ANALYST	20
1	CLERK	30
1	CLERK	10

9 rows selected.

24. List MGR and the number of employees report to them in the sorted order.

SELECT COUNT(*) AS EMPLOYEES,MGR FROM EMP WHERE MGR IS NOT NULL GROUP BY MGR ORDER BY EMPLOYEES

EMPLOYEES	MGR

1	7788
1	7782
1	7902
2	7566
3	7839
5	7698

6 rows selected.

25. List emp numbers of employees to whom a minimum of 3 people report.

SELECT DISTINCT(MGR),COUNT(*) FROM EMP WHERE MGR IS NOT NULL GROUP BY MGR HAVING COUNT(*)>2

MGR	COUNT(*)
7698	5
7839	3

2 rows selected.

26. List dept numbers having a minimum of 3 persons.

SELECT DEPTNO FROM EMP GROUP BY DEPTNO HAVING COUNT(*)>=3

DEPTNO
30
20

2 rows selected.

27. List names of jobs having a minimum of 3 persons in that job.

SELECT JOB FROM EMP GROUP BY JOB HAVING COUNT(*)>=3

JOB
CLERK
SALESMAN
MANAGER

3 rows selected.

28. List names of months in which a minimum of 3 persons joined.

SELECT TO_CHAR(HIREDATE,'MONTH') FROM EMP GROUP BY TO_CHAR(HIREDATE,'MONTH') HAVING COUNT(*)>=3

TO_CHAR(HIREDATE,'MONTH')

DECEMBER

29. List hiredates of employees having 2 or more employees having the same hiredate.

SELECT HIREDATE FROM EMP GROUP BY HIREDATE HAVING COUNT(*)>=2

HIREDATE

03-DEC-81
13-JUL-87
2 rows selected.

30. List departments having minimum of 3 people having a minimum of 17

years of experience

SELECT D.DNAME,COUNT(*) FROM DEPT D,EMP E WHERE D.DEPTNO=E.DEPTNO OR

TO_CHAR(SYSDATE,'YY')-TO_CHAR(HIREDATE,'YY')>16

GROUP BY D.DNAME HAVING COUNT(*)>2

DNAME	COUNT(*)
RESEARCH	5
SALES	6
ACCOUNTING	3

3 rows selected.