**1) Select Queries**

1. Display all departments from department table.

SQL> select dname from dept;

DNAME

--------------

ACCOUNTING

RESEARCH

SALES

OPERATIONS

1. Display all employees from employee table.

SQL> select ename from emp;

ENAME

----------

SMITH

ALLEN

WARD

JONES

MARTIN

BLAKE

CLARK

SCOTT

KING

TURNER

ADAMS

ENAME

----------

JAMES

FORD

MILLER

14 rows selected.

1. Select the employee in department 30.

SQL> select ename from emp where deptno=30;

ENAME

----------

ALLEN

WARD

MARTIN

BLAKE

TURNER

JAMES

6 rows selected.

1. List the names, numbers and department no of all clerks.

SQL> SELECT ENAME,EMPNO,DEPTNO FROM EMP WHERE JOB='CLERK';

ENAME EMPNO DEPTNO

---------- ---------- ----------

SMITH 7369 20

ADAMS 7876 20

JAMES 7900 30

MILLER 7934 10

1. Find the depart numbers and the name of employee of all dept with Deptno greater or equal to 20.

SQL> SELECT DEPTNO,ENAME FROM EMP WHERE DEPTNO>=20;

DEPTNO ENAME

---------- ----------

20 SMITH

30 ALLEN

30 WARD

20 JONES

30 MARTIN

30 BLAKE

20 SCOTT

30 TURNER

20 ADAMS

30 JAMES

20 FORD

11 rows selected.

1. Find the employees whose commission is greater than their salary.

SQL> SELECT ENAME FROM EMP WHERE COMM>SAL;

ENAME

----------

MARTIN

1. Find the employees whose commission is greater than 60 percent of their salary.

SQL> SELECT ENAME FROM EMP WHERE COMM>((60/100)\*SAL);

ENAME

----------

MARTIN

1. Find the employee whose commission is greater than 50 percent of their salary.

SQL> select ename from emp where comm>((50/100)\*sal);

ENAME

----------

MARTIN

1. List the name, job and salary of all employees in dept 20 who earn more than 2000.

SQL> SELECT ENAME,JOB,SAL FROM EMP WHERE DEPTNO=20 AND (COMM IS NOT NULL OR (SAL)>2000);

ENAME JOB SAL

---------- --------- ----------

JONES MANAGER 2975

SCOTT ANALYST 3000

FORD ANALYST 3000

1. Find all salesmen in dept 30 whose salary is greater than or equal to Rs. 1500.

SQL> SELECT ENAME FROM EMP WHERE DEPTNO=30 AND SAL>=1500 AND JOB='SALESMAN';

ENAME

----------

ALLEN

TURNER

1. Find all the employees whose job is either a president or manager.

SQL> SELECT ENAME FROM EMP WHERE JOB='PRESIDENT' OR JOB='MANAGER';

ENAME

----------

JONES

BLAKE

CLARK

KING

1. Find all managers who are not in dept 30.

SQL> SELECT ENAME FROM EMP WHERE JOB='MANAGER' AND DEPTNO!=30;

ENAME

----------

JONES

CLARK

1. Find the details of all managers and clerks in dept 10.

SQL> SELECT \* FROM EMP WHERE DEPTNO=10 AND (JOB='MANAGER' OR JOB='CLERK');

EMPNO ENAME JOB MGR HIREDATE SAL COMM

---------- ---------- --------- ---------- --------- ---------- ----------

DEPTNO

----------

7782 CLARK MANAGER 7839 09-JUN-81 2450

10

7934 MILLER CLERK 7782 23-JAN-82 1300

10

1. Find the details of all manager (in any dept) and all clerks in dept 10

SQL> SELECT \* FROM EMP WHERE JOB='MANAGER' OR (JOB='CLERK' AND DEPTNO=10);

EMPNO ENAME JOB MGR HIREDATE SAL COMM

---------- ---------- --------- ---------- --------- ---------- ----------

DEPTNO

----------

7566 JONES MANAGER 7839 02-APR-81 2975

20

7698 BLAKE MANAGER 7839 01-MAY-81 2850

30

7782 CLARK MANAGER 7839 09-JUN-81 2450

10

EMPNO ENAME JOB MGR HIREDATE SAL COMM

---------- ---------- --------- ---------- --------- ---------- ----------

DEPTNO

----------

7934 MILLER CLERK 7782 23-JAN-82 1300

10

1. Find the details of all managers in dept 10 and all clerks in dept 20.

SQL> SELECT \* FROM EMP WHERE (JOB='MANAGER' AND DEPTNO=10) OR (JOB='CLERK' AND DEPTNO=20);

EMPNO ENAME JOB MGR HIREDATE SAL COMM

---------- ---------- --------- ---------- --------- ---------- ----------

DEPTNO

----------

7369 SMITH CLERK 7902 17-DEC-80 800

20

7782 CLARK MANAGER 7839 09-JUN-81 2450

10

7876 ADAMS CLERK 7788 23-MAY-87 1100

20

1. Find all employees who are neither clerks nor manager but whose salary is greater than or equal to Rs. 2000.

SQL> SELECT \* FROM EMP WHERE (JOB!='MANAGER' AND JOB!='CLERK') AND SAL>=2000;

EMPNO ENAME JOB MGR HIREDATE SAL COMM

---------- ---------- --------- ---------- --------- ---------- ----------

DEPTNO

----------

7788 SCOTT ANALYST 7566 19-APR-87 3000

20

7839 KING PRESIDENT 17-NOV-81 5000

10

7902 FORD ANALYST 7566 03-DEC-81 3000

20

1. Find the employees who earns between Rs. 1200 and Rs.1400.

SQL> SELECT \* FROM EMP WHERE ((COMM IS NULL AND SAL BETWEEN 1200 AND 1400) OR (COMM IS NOT NULL AND (SAL+COMM) BETWEEN 1200 AND 1400));

EMPNO ENAME JOB MGR HIREDATE SAL COMM

---------- ---------- --------- ---------- --------- ---------- ----------

DEPTNO

----------

7934 MILLER CLERK 7782 23-JAN-82 1300

10

1. Find the employees who are clerks, analysts or salesman.

SQL> SELECT \* FROM EMP WHERE JOB!='CLERK' AND JOB!='ANALYST' AND JOB!='SALESMAN';

EMPNO ENAME JOB MGR HIREDATE SAL COMMSS

---------- ---------- --------- ---------- --------- ---------- ----------

DEPTNO

----------

7566 JONES MANAGER 7839 02-APR-81 2975

20

7698 BLAKE MANAGER 7839 01-MAY-81 2850

30

7782 CLARK MANAGER 7839 09-JUN-81 2450

10

EMPNO ENAME JOB MGR HIREDATE SAL COMM

---------- ---------- --------- ---------- --------- ---------- ----------

DEPTNO

----------

7839 KING PRESIDENT 17-NOV-81 5000

10

1. Find the employees who are not clerks, analyst or salesman.

SQL> SELECT \* FROM EMP WHERE JOB!='CLERK' AND JOB!='ANALYST' AND JOB!='SALESMAN';

EMPNO ENAME JOB MGR HIREDATE SAL COMM

---------- ---------- --------- ---------- --------- ---------- ----------

DEPTNO

----------

7566 JONES MANAGER 7839 02-APR-81 2975

20

7698 BLAKE MANAGER 7839 01-MAY-81 2850

30

7782 CLARK MANAGER 7839 09-JUN-81 2450

10

EMPNO ENAME JOB MGR HIREDATE SAL COMM

---------- ---------- --------- ---------- --------- ---------- ----------

DEPTNO

----------

7839 KING PRESIDENT 17-NOV-81 5000

10

1. Find the employees who do not receive a commission i.e. commission is NULL.

SQL> SELECT ENAME FROM EMP WHERE COMM IS NULL OR COMM=0;

ENAME

----------

SMITH

JONES

BLAKE

CLARK

SCOTT

KING

ADAMS

JAMES

FORD

MILLER

10 rows selected.

1. Find the employee whose commission is Rs. 0.

SQL> SELECT DISTINCT JOB FROM EMP WHERE COMM=0;

ENAME

----------

TURNER

1. Find the different jobs of the employees receiving commission.

SQL> SELECT DISTINCT JOB FROM EMP WHERE COMM>0;

JOB

---------

SALESMAN

1. Find all employees who do not receive a commission or whose Commission is less than Rs. 100.

SQL> SELECT ENAME FROM EMP WHERE COMM BETWEEN 0 AND 100;

ENAME

----------

TURNER

1. The employees who not receiving commission are entailed to Rs. 250, Show the net earnings of all employees. (find about **nvl() )**

SQL> SELECT ENAME,SAL,COMM,SAL+NVL(COMM,250) "TOTAL EARNING" FROM EMP;

ENAME SAL COMM TOTAL EARNING

---------- ---------- ---------- -------------

SMITH 800 1050

ALLEN 1600 300 1900

WARD 1250 500 1750

JONES 2975 3225

MARTIN 1250 1400 2650

BLAKE 2850 3100

CLARK 2450 2700

SCOTT 3000 3250

KING 5000 5250

TURNER 1500 0 1500

ADAMS 1100 1350

ENAME SAL COMM TOTAL EARNING

---------- ---------- ---------- -------------

JAMES 950 1200

FORD 3000 3250

MILLER 1300 1550

14 rows selected.

1. Find all employees whose total earnings are greater than Rs. 2000.

SQL> SELECT ENAME,SAL,COMM,SAL+NVL(COMM,250) "TOTAL EARNING" FROM EMP WHERE SAL+NVL(COMM,250)>2000;

ENAME SAL COMM TOTAL EARNING

---------- ---------- ---------- -------------

JONES 2975 3225

MARTIN 1250 1400 2650

BLAKE 2850 3100

CLARK 2450 2700

SCOTT 3000 3250

KING 5000 5250

FORD 3000 3250

7 rows selected.

1. Find all employees whose names begin with m.

SQL> SELECT ENAME FROM EMP WHERE ENAME LIKE 'M%';

ENAME

----------

MARTIN

MILLER

1. Find all employees whose names end with m.

SQL> SELECT ENAME FROM EMP WHERE ENAME LIKE '%M';

no rows selected

1. Find all employees whose names contain the letter m.

SQL> SELECT ENAME FROM EMP WHERE ENAME LIKE '%M%';

ENAME

----------

SMITH

MARTIN

ADAMS

JAMES

MILLER

1. Find the employees whose names are 5 characters long and end with n.

SQL> SELECT ENAME FROM EMP WHERE ENAME LIKE '\_\_\_\_N';

ENAME

----------

ALLEN

1. Find the employees who have the letter r as the third letter in their name.

SQL> SELECT ENAME FROM EMP WHERE ENAME LIKE '\_\_R%';

ENAME

----------

WARD

MARTIN

TURNER

FORD

**2) Numeric, Character & Date Function**

1. Find all employees hired in month of February (of any year).

SQL> SELECT \* FROM EMP WHERE EXTRACT(MONTH FROM "HIREDATE")=02;

EMPNO ENAME JOB MGR HIREDATE SAL COMM

---------- ---------- --------- ---------- --------- ---------- ----------

DEPTNO

----------

7499 ALLEN SALESMAN 7698 20-FEB-81 1600 300

30

7521 WARD SALESMAN 7698 22-FEB-81 1250 500

30

1. Find all employees who were hired on the last day of the month.

SQL> SELECT ENAME FROM EMP WHERE HIREDATE=LAST\_DAY(HIREDATE);

no rows selected

1. Find the employees who were hired more than 12 years ago.

SQL> SELECT ENAME,HIREDATE FROM EMP WHERE MONTHS\_BETWEEN (SYSDATE,"HIREDATE")>=144;

ENAME HIREDATE

---------- ---------

SMITH 17-DEC-80

ALLEN 20-FEB-81

WARD 22-FEB-81

JONES 02-APR-81

MARTIN 28-SEP-81

BLAKE 01-MAY-81

CLARK 09-JUN-81

SCOTT 19-APR-87

KING 17-NOV-81

TURNER 08-SEP-81

ADAMS 23-MAY-87

ENAME HIREDATE

---------- ---------

JAMES 03-DEC-81

FORD 03-DEC-81

MILLER 23-JAN-82

14 rows selected.

1. Find the managers hired in the year 2007.

SQL> SELECT \* FROM EMP WHERE EXTRACT(YEAR FROM "HIREDATE")=2017;

no rows selected

1. Display the names and the jobs of all employees, separated by ','(comma). For example (smith, clerk).

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

ENAME||','||JOB

--------------------

JAMES,CLERK

FORD,ANALYST

MILLER,CLERK

14 rows selected.

1. Display the names of all employees with the initial letter only in capitals.

SQL> SELECT INITCAP(ENAME) FROM EMP;

INITCAP(EN

----------

Smith

Allen

Ward

Jones

Martin

Blake

Clark

Scott

King

Turner

Adams

INITCAP(EN

----------

James

Ford

Miller

14 rows selected.

1. Display the names of all employees, right aligning them to 15 characters.

SQL> SELECT ENAME,LPAD(ENAME,15,' ') FROM EMP;

ENAME LPAD(ENAME,15,'')

---------- ------------------------------------------------------------

SMITH SMITH

ALLEN ALLEN

WARD WARD

JONES JONES

MARTIN MARTIN

BLAKE BLAKE

CLARK CLARK

SCOTT SCOTT

KING KING

TURNER TURNER

ADAMS ADAMS

ENAME LPAD(ENAME,15,'')

---------- ------------------------------------------------------------

JAMES JAMES

FORD FORD

MILLER MILLER

14 rows selected.

1. Display the names of all employees, padding them to right up-to 15 characters with '-'.

SQL> SELECT ENAME,LPAD(ENAME,15,'-') FROM EMP;

ENAME LPAD(ENAME,15,'-')

---------- ------------------------------------------------------------

SMITH ----------SMITH

ALLEN ----------ALLEN

WARD -----------WARD

JONES ----------JONES

MARTIN ---------MARTIN

BLAKE ----------BLAKE

CLARK ----------CLARK

SCOTT ----------SCOTT

KING -----------KING

TURNER ---------TURNER

ADAMS ----------ADAMS

ENAME LPAD(ENAME,15,'-')

---------- ------------------------------------------------------------

JAMES ----------JAMES

FORD -----------FORD

MILLER ---------MILLER

14 rows selected.

1. Display the length of the name of all employees.

SQL> SELECT ENAME, LENGTH(ENAME) FROM EMP;

ENAME LENGTH(ENAME)

---------- -------------

SMITH 5

ALLEN 5

WARD 4

JONES 5

MARTIN 6

BLAKE 5

CLARK 5

SCOTT 5

KING 4

TURNER 6

ADAMS 5

ENAME LENGTH(ENAME)

---------- -------------

JAMES 5

FORD 4

MILLER 6

14 rows selected.

1. Display the names of all employees centering them with 20 characters.
2. Display the names of all employees without any leading 'a'.

SQL> SELECT ENAME,TRIM(LEADING 'A' FROM ENAME) FROM EMP;

ENAME TRIM(LEADI

---------- ----------

SMITH SMITH

ALLEN LLEN

WARD WARD

JONES JONES

MARTIN MARTIN

BLAKE BLAKE

CLARK CLARK

SCOTT SCOTT

KING KING

TURNER TURNER

ADAMS DAMS

ENAME TRIM(LEADI

---------- ----------

JAMES JAMES

FORD FORD

MILLER MILLER

14 rows selected.

1. Display the names of all employees without any trailing 'r'.

SQL> SELECT ENAME,TRIM(TRAILING 'R' FROM ENAME) FROM EMP;

ENAME TRIM(TRAIL

---------- ----------

SMITH SMITH

ALLEN ALLEN

WARD WARD

JONES JONES

MARTIN MARTIN

BLAKE BLAKE

CLARK CLARK

SCOTT SCOTT

KING KING

TURNER TURNE

ADAMS ADAMS

ENAME TRIM(TRAIL

---------- ----------

JAMES JAMES

FORD FORD

MILLER MILLE

14 rows selected.

1. Show the first three characters of the names of all employees.

SQL> SELECT SUBSTR(ENAME,1,3) FROM EMP;

SUBSTR(ENAME

------------

SMI

ALL

WAR

JON

MAR

BLA

CLA

SCO

KIN

TUR

ADA

SUBSTR(ENAME

------------

JAM

FOR

MIL

14 rows selected.

1. Show the last three characters of the names of all employees.

SQL> SELECT ENAME,SUBSTR(ENAME,-3,3) FROM EMP;

ENAME SUBSTR(ENAME

---------- ------------

SMITH ITH

ALLEN LEN

WARD ARD

JONES NES

MARTIN TIN

BLAKE AKE

CLARK ARK

SCOTT OTT

KING ING

TURNER NER

ADAMS AMS

ENAME SUBSTR(ENAME

---------- ------------

JAMES MES

FORD ORD

MILLER LER

14 rows selected.

1. Display the names of all employees replacing any 'a' with 'e'.

SQL> SELECT ENAME,REPLACE(ENAME,'A','E') FROM EMP;

ENAME REPLACE(EN

---------- ----------

SMITH SMITH

ALLEN ELLEN

WARD WERD

JONES JONES

MARTIN MERTIN

BLAKE BLEKE

CLARK CLERK

SCOTT SCOTT

KING KING

TURNER TURNER

ADAMS EDEMS

ENAME REPLACE(EN

---------- ----------

JAMES JEMES

FORD FORD

MILLER MILLER

14 rows selected.

1. Display the names of all employees and the position at which the string 'ar' occurs in the name.

SQL> SELECT ENAME,INSTR(ENAME,'AR') FROM EMP;

ENAME INSTR(ENAME,'AR')

---------- -----------------

SMITH 0

ALLEN 0

WARD 2

JONES 0

MARTIN 2

BLAKE 0

CLARK 3

SCOTT 0

KING 0

TURNER 0

ADAMS 0

ENAME INSTR(ENAME,'AR')

---------- -----------------

JAMES 0

FORD 0

MILLER 0

14 rows selected.

1. Show the salary of all employees rounding it to the nearest Rs. 1000. For example (3790 will be 4000)

SQL> SELECT ENAME,SAL,ROUND(SAL,-3) FROM EMP;

ENAME SAL ROUND(SAL,-3)

---------- ---------- -------------

SMITH 800 1000

ALLEN 1600 2000

WARD 1250 1000

JONES 2975 3000

MARTIN 1250 1000

BLAKE 2850 3000

CLARK 2450 2000

SCOTT 3000 3000

KING 5000 5000

TURNER 1500 2000

ADAMS 1100 1000

ENAME SAL ROUND(SAL,-3)

---------- ---------- -------------

JAMES 950 1000

FORD 3000 3000

MILLER 1300 1000

14 rows selected.

1. Show the daily salary of all employees assuming a month has 30 days.

SQL> SELECT ENAME, (SAL/30) FROM EMP;

ENAME (SAL/30)

---------- ----------

SMITH 26.6666667

ALLEN 53.3333333

WARD 41.6666667

JONES 99.1666667

MARTIN 41.6666667

BLAKE 95

CLARK 81.6666667

SCOTT 100

KING 166.666667

TURNER 50

ADAMS 36.6666667

ENAME (SAL/30)

---------- ----------

JAMES 31.6666667

FORD 100

MILLER 43.3333333

14 rows selected.

1. Display the name of all employees, and their bonus. Assume each Employee gets a bonus of 20 percent of his salary subject to the Maximum of Rs. 500.

SQL> SELECT ENAME,SAL\*0.2 AS BONUS FROM EMP WHERE SAL\*0.2<500;

ENAME BONUS

---------- ----------

SMITH 160

ALLEN 320

WARD 250

MARTIN 250

CLARK 490

TURNER 300

ADAMS 220

JAMES 190

MILLER 260

9 rows selected.

1. Display the name of all employees, and their bonus. Assume each employee gets a bonus of 20 percent of his salary subject to the Maximum of Rs. 200.

SQL> SELECT ENAME,SAL\*0.2 AS BONUS FROM EMP WHERE SAL\*0.2<200;

ENAME BONUS

---------- ----------

SMITH 160

JAMES 190

1. For each employee display the number of days passed since the employee joined the company.

SQL> SELECT ENAME ,(SYSDATE-HIREDATE) AS "NO OF DAYS" FROM EMP;

ENAME NO OF DAYS

---------- ----------

SMITH 13835.7319

ALLEN 13770.7319

WARD 13768.7319

JONES 13729.7319

MARTIN 13550.7319

BLAKE 13700.7319

CLARK 13661.7319

SCOTT 11521.7319

KING 13500.7319

TURNER 13570.7319

ADAMS 11487.7319

ENAME NO OF DAYS

---------- ----------

JAMES 13484.7319

FORD 13484.7319

MILLER 13433.7319

14 rows selected.

1. For each employee display the number of months passed since the Employee joined the company.

SQL> SELECT ENAME ,(SYSDATE-HIREDATE)/30 AS "NO OF MONTHS" FROM EMP;

ENAME NO OF MONTHS

---------- ------------

SMITH 461.191049

ALLEN 459.024382

WARD 458.957715

JONES 457.657715

MARTIN 451.691049

BLAKE 456.691049

CLARK 455.391049

SCOTT 384.057715

KING 450.024382

TURNER 452.357715

ADAMS 382.924382

ENAME NO OF MONTHS

---------- ------------

JAMES 449.491049

FORD 449.491049

MILLER 447.791049

14 rows selected.

1. Display the tenure of service in the years, months and days for all Employees in character format. Assume every month has 30 days.

54. Display the employee details in the following manner. 'Miler joined on the twenty-third of January of the year nineteen hundred and eighty Two'.

SQL> SELECT ENAME ||' JOINED ON THE '|| TO\_CHAR(HIREDATE,'DAY') ||'OF '|| TO\_CHAR(HIREDATE,'MONTH')||'OF THE YEAR'|| TO\_CHAR(HIREDATE,'YEAR') FROM EMP;

ENAME||'JOINEDONTHE'||TO\_CHAR(HIREDATE,'DAY')||'OF'||TO\_CHAR(HIREDATE,'MONTH')||

--------------------------------------------------------------------------------

SMITH JOINED ON THE WEDNESDAYOF DECEMBER OF THE YEARNINETEEN EIGHTY

ALLEN JOINED ON THE FRIDAY OF FEBRUARY OF THE YEARNINETEEN EIGHTY-ONE

WARD JOINED ON THE SUNDAY OF FEBRUARY OF THE YEARNINETEEN EIGHTY-ONE

JONES JOINED ON THE THURSDAY OF APRIL OF THE YEARNINETEEN EIGHTY-ONE

MARTIN JOINED ON THE MONDAY OF SEPTEMBEROF THE YEARNINETEEN EIGHTY-ONE

BLAKE JOINED ON THE FRIDAY OF MAY OF THE YEARNINETEEN EIGHTY-ONE

CLARK JOINED ON THE TUESDAY OF JUNE OF THE YEARNINETEEN EIGHTY-ONE

SCOTT JOINED ON THE SUNDAY OF APRIL OF THE YEARNINETEEN EIGHTY-SEVEN

KING JOINED ON THE TUESDAY OF NOVEMBER OF THE YEARNINETEEN EIGHTY-ONE

TURNER JOINED ON THE TUESDAY OF SEPTEMBEROF THE YEARNINETEEN EIGHTY-ONE

ADAMS JOINED ON THE SATURDAY OF MAY OF THE YEARNINETEEN EIGHTY-SEVEN

ENAME||'JOINEDONTHE'||TO\_CHAR(HIREDATE,'DAY')||'OF'||TO\_CHAR(HIREDATE,'MONTH')||

--------------------------------------------------------------------------------

JAMES JOINED ON THE THURSDAY OF DECEMBER OF THE YEARNINETEEN EIGHTY-ONE

FORD JOINED ON THE THURSDAY OF DECEMBER OF THE YEARNINETEEN EIGHTY-ONE

MILLER JOINED ON THE SATURDAY OF JANUARY OF THE YEARNINETEEN EIGHTY-TWO

14 rows selected.

**3) Ordering by Queries**

55. Display the details of all employees, sorted on the names.

SQL> SELECT \* FROM EMP ORDER BY ENAME ASC;

EMPNO ENAME JOB MGR HIREDATE SAL COMM

---------- ---------- --------- ---------- --------- ---------- ----------

DEPTNO

----------

7876 ADAMS CLERK 7788 23-MAY-87 1100

20

7499 ALLEN SALESMAN 7698 20-FEB-81 1600 300

30

7698 BLAKE MANAGER 7839 01-MAY-81 2850

30

EMPNO ENAME JOB MGR HIREDATE SAL COMM

---------- ---------- --------- ---------- --------- ---------- ----------

DEPTNO

----------

7782 CLARK MANAGER 7839 09-JUN-81 2450

10

7902 FORD ANALYST 7566 03-DEC-81 3000

20

7900 JAMES CLERK 7698 03-DEC-81 950

30

EMPNO ENAME JOB MGR HIREDATE SAL COMM

---------- ---------- --------- ---------- --------- ---------- ----------

DEPTNO

----------

7566 JONES MANAGER 7839 02-APR-81 2975

20

7839 KING PRESIDENT 17-NOV-81 5000

10

7654 MARTIN SALESMAN 7698 28-SEP-81 1250 1400

30

EMPNO ENAME JOB MGR HIREDATE SAL COMM

---------- ---------- --------- ---------- --------- ---------- ----------

DEPTNO

----------

7934 MILLER CLERK 7782 23-JAN-82 1300

10

7788 SCOTT ANALYST 7566 19-APR-87 3000

20

7369 SMITH CLERK 7902 17-DEC-80 800

20

EMPNO ENAME JOB MGR HIREDATE SAL COMM

---------- ---------- --------- ---------- --------- ---------- ----------

DEPTNO

----------

7844 TURNER SALESMAN 7698 08-SEP-81 1500 0

30

7521 WARD SALESMAN 7698 22-FEB-81 1250 500

30

14 rows selected.

56. Display the name of all employees, based on their tenure, with the oldest employee coming first.

SQL> SELECT ENAME,HIREDATE FROM EMP ORDER BY EXTRACT(YEAR FROM HIREDATE)ASC;

ENAME HIREDATE

---------- ---------

SMITH 17-DEC-80

WARD 22-FEB-81

JONES 02-APR-81

MARTIN 28-SEP-81

BLAKE 01-MAY-81

ALLEN 20-FEB-81

CLARK 09-JUN-81

FORD 03-DEC-81

JAMES 03-DEC-81

KING 17-NOV-81

TURNER 08-SEP-81

ENAME HIREDATE

---------- ---------

MILLER 23-JAN-82

ADAMS 23-MAY-87

SCOTT 19-APR-87

14 rows selected.

57. Display the names, job and salary of all employees sorted on jobs and Salary.

SQL> SELECT ENAME,JOB,SAL FROM EMP ORDER BY JOB ASC,SAL ASC;

ENAME JOB SAL

---------- --------- ----------

FORD ANALYST 3000

SCOTT ANALYST 3000

SMITH CLERK 800

JAMES CLERK 950

ADAMS CLERK 1100

MILLER CLERK 1300

CLARK MANAGER 2450

BLAKE MANAGER 2850

JONES MANAGER 2975

KING PRESIDENT 5000

MARTIN SALESMAN 1250

ENAME JOB SAL

---------- --------- ----------

WARD SALESMAN 1250

TURNER SALESMAN 1500

ALLEN SALESMAN 1600

14 rows selected.

58. Display the names, job and salary of all employees, sorted on jobs and within job, sorted on the descending order of salary.

SQL> SELECT ENAME,JOB,SAL FROM EMP ORDER BY JOB ASC,SAL DESC;

ENAME JOB SAL

---------- --------- ----------

FORD ANALYST 3000

SCOTT ANALYST 3000

MILLER CLERK 1300

ADAMS CLERK 1100

JAMES CLERK 950

SMITH CLERK 800

JONES MANAGER 2975

BLAKE MANAGER 2850

CLARK MANAGER 2450

KING PRESIDENT 5000

ALLEN SALESMAN 1600

ENAME JOB SAL

---------- --------- ----------

TURNER SALESMAN 1500

MARTIN SALESMAN 1250

WARD SALESMAN 1250

14 rows selected.

59. Display the names, job and salary of all employees, sorted on Descending order of job and within job, sorted on the descending order of salary.

SQL> SELECT ENAME,JOB,SAL FROM EMP ORDER BY JOB DESC,SAL ASC;

ENAME JOB SAL

---------- --------- ----------

WARD SALESMAN 1250

MARTIN SALESMAN 1250

TURNER SALESMAN 1500

ALLEN SALESMAN 1600

KING PRESIDENT 5000

CLARK MANAGER 2450

BLAKE MANAGER 2850

JONES MANAGER 2975

SMITH CLERK 800

JAMES CLERK 950

ADAMS CLERK 1100

ENAME JOB SAL

---------- --------- ----------

MILLER CLERK 1300

SCOTT ANALYST 3000

FORD ANALYST 3000

14 rows selected.

60. Display the name, month and year of all employees, sorted on the month of their hire date irrespective of the year.

SQL> SELECT ENAME,EXTRACT(MONTH FROM HIREDATE) AS MONTH,EXTRACT(YEAR FROM HIREDATE) AS YEAR FROM EMP ORDER BY EXTRACT(MONTH FROM HIREDATE);

ENAME MONTH YEAR

---------- ---------- ----------

MILLER 1 1982

ALLEN 2 1981

WARD 2 1981

JONES 4 1981

SCOTT 4 1987

ADAMS 5 1987

BLAKE 5 1981

CLARK 6 1981

TURNER 9 1981

MARTIN 9 1981

KING 11 1981

ENAME MONTH YEAR

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SMITH 12 1980

JAMES 12 1981

FORD 12 1981

14 rows selected.

61. Display the name, month and year of joining of all employees, sorted on the month of their hire date, and within that on the year, with the earliest year appearing first.

SQL> SELECT ENAME,EXTRACT(MONTH FROM HIREDATE) AS MONTH,EXTRACT(YEAR FROM HIREDATE) AS YEAR FROM EMP ORDER BY EXTRACT(MONTH FROM HIREDATE) ASC, EXTRACT(YEAR FROM HIREDATE) DESC;

ENAME MONTH YEAR

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MILLER 1 1982

ALLEN 2 1981

WARD 2 1981

SCOTT 4 1987

JONES 4 1981

ADAMS 5 1987

BLAKE 5 1981

CLARK 6 1981

TURNER 9 1981

MARTIN 9 1981

KING 11 1981

ENAME MONTH YEAR

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JAMES 12 1981

FORD 12 1981

SMITH 12 1980

14 rows selected.