1. To list all records with sal > 2000 and comm>200

select \* from emp where sal>2000 and comm>200;

2. To list all record with job=’Clerk’ or sal>2000

select \* from emp where job=’Clerk’ or sal>2000;

EMPNO ENAME JOB MGR HIREDATE SAL COMM DEPTNO

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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

7788 SCOTT ANALYST 7566 09-DEC-82 3000 20

7839 KING PRESIDENT 17-NOV-81 5000 10

7902 FORD ANALYST 7566 03-DEC-81 3000 20

3. To list all the record with sal=1250 or 1100 or 2850

SQL> select \* from emp where sal in(1250, 1100, 2850);

EMPNO ENAME JOB MGR HIREDATE SAL COMM DEPTNO

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7521 WARD SALESMAN 7698 22-FEB-81 1250 500 30

7654 MARTIN SALESMAN 7698 28-SEP-81 1250 1400 30

7698 BLAKE MANAGER 7839 01-MAY-81 2850 30

7876 ADAMS CLERK 7788 12-JAN-83 1100 20

4. To list all employees with sal>1250 and <2850

SQL> select \* from emp where sal between 1250 and 2850;

EMPNO ENAME JOB MGR HIREDATE SAL COMM DEPTNO

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7499 ALLEN SALESMAN 7698 20-FEB-81 1600 300 30

7521 WARD SALESMAN 7698 22-FEB-81 1250 500 30

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

7844 TURNER SALESMAN 7698 08-SEP-81 1500 0 30

7934 MILLER CLERK 7782 23-JAN-82 1300 10

5. To list all employees with name ends with AS

SQL> select \* from emp where ename like '%AS';

SQL> SQL> select ename from emp where REGEXP\_like(ename, 'AS$');

no rows selected

6. To list all employees with job starts with C and ends with K

SQL> select \* from emp where job like 'C%K';

SQL> select \* from emp where REGEXP\_like(job, '^C.\*K$');

EMPNO ENAME JOB MGR HIREDATE SAL COMM DEPTNO

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7369 SMITH CLERK 7902 17-DEC-80 800 20

7876 ADAMS CLERK 7788 12-JAN-83 1100 20

7900 JAMES CLERK 7698 03-DEC-81 950 30

7934 MILLER CLERK 7782 23-JAN-82 1300 10

7. To list all employees with job contains L at third position and

M at third last position

SQL> select \* from emp where job like '\_\_L%M\_\_';

SQL> select \* from emp where REGEXP\_like(job, '.{2}N\*M.{2}');

EMPNO ENAME JOB MGR HIREDATE SAL COMM DEPTNO

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7499 ALLEN SALESMAN 7698 20-FEB-81 1600 300 30

7521 WARD SALESMAN 7698 22-FEB-81 1250 500 30

7654 MARTIN SALESMAN 7698 28-SEP-81 1250 1400 30

7844 TURNER SALESMAN 7698 08-SEP-81 1500 0 30

8. To list all the record with sal not equal to 1250 or 1100 or 2850

SQL> select \* from emp where sal not in(1250, 1100, 2850);

EMPNO ENAME JOB MGR HIREDATE SAL COMM DEPTNO

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7369 SMITH CLERK 7902 17-DEC-80 800 20

7499 ALLEN SALESMAN 7698 20-FEB-81 1600 300 30

7566 JONES MANAGER 7839 02-APR-81 2975 20

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 10

7844 TURNER SALESMAN 7698 08-SEP-81 1500 0 30

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

9. To list all employees with salnot >1250 and <2850

SQL> select \* from emp where sal not between 1250 and 2850;

EMPNO ENAME JOB MGR HIREDATE SAL COMM DEPTNO

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7369 SMITH CLERK 7902 17-DEC-80 800 20

7566 JONES MANAGER 7839 02-APR-81 2975 20

7788 SCOTT ANALYST 7566 09-DEC-82 3000 20

7839 KING PRESIDENT 17-NOV-81 5000 10

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

10. To list all employees with job starts with C , E at 3rd position and ends with K

SQL> select \* from emp where job like 'C\_E%K';

SQL> select \* from emp where REGEXP\_LIKE(job,'^C.\*E.\*K$');

EMPNO ENAME JOB MGR HIREDATE SAL COMM DEPTNO

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7369 SMITH CLERK 7902 17-DEC-80 800 20

7876 ADAMS CLERK 7788 12-JAN-83 1100 20

7900 JAMES CLERK 7698 03-DEC-81 950 30

7934 MILLER CLERK 7782 23-JAN-82 1300 10

11. To list all rows with comm is null

SQL> select \* from emp where comm is null;

EMPNO ENAME JOB MGR HIREDATE SAL COMM DEPTNO

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7369 SMITH CLERK 7902 17-DEC-80 800 20

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

7788 SCOTT ANALYST 7566 09-DEC-82 3000 20

7839 KING PRESIDENT 17-NOV-81 5000 10

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

12. To list all employees with sal is null and name starts with ‘S’

SQL> select \* from emp where sal is Null and ename like 'S%';

SQL> select \* from emp where sal is Null and regexp\_like(ename,'^S');

no rows selected

13. To list all employees with job contains 5 characters

SQL> select ename from emp where length(job)=5;

ENAME

----------

SMITH

ADAMS

JAMES

MILLER

14. To list all employees with name contain ‘A’ at 1 position and job

Contains 5 characters

SQL> SQL> select \* from emp where length(job)=5 and ename like 'A%';

SQL> select \* from emp where length(job)=5 and regexp\_like(ename,'^A');

EMPNO ENAME JOB MGR HIREDATE SAL COMM DEPTNO

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7876 ADAMS CLERK 7788 12-JAN-83 1100 20

Q2. Solve the following

1. Retrieve the details (Name, Salary and dept no) of the emp who are working in

department code 20, 30 and 40.

SQL> select ename, Sal deptno from emp where deptno in(20, 30, 40);

ENAME DEPTNO

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

SMITH 800

ALLEN 1600

WARD 1250

JONES 2975

MARTIN 1250

BLAKE 2850

SCOTT 3000

TURNER 1500

ADAMS 1100

JAMES 950

FORD 3000

2. Display the total salary of all employees . Total salary will be calculated as

sal+comm+sal\*0.10

SQL> select empno, ename, (sal+nvl(comm,0)+sal\*0.10) as Total\_Sal from emp;

EMPNO ENAME TOTAL\_SAL

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

7369 SMITH 880

7499 ALLEN 2060

7521 WARD 1875

7566 JONES 3272.5

7654 MARTIN 2775

7698 BLAKE 3135

7782 CLARK 2695

7788 SCOTT 3300

7839 KING 5500

7844 TURNER 1650

7876 ADAMS 1210

7900 JAMES 1045

7902 FORD 3300

7934 MILLER 1430

3. List the Name and job of the emp who have joined before 1 jan 1986 and whose

salary range is between 1200and 2500. Display the columns with user defined Column

Headers.

SQL> select ename, sal from emp where sal between 1200 and 2500 and hiredate < '01 jan 1986';

ENAME SAL

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

ALLEN 1600

WARD 1250

MARTIN 1250

CLARK 2450

TURNER 1500

MILLER 1300

4. List the empno, name, and department number of the emp works under manager

with id 7698

SQL> select empno, ename, deptno from emp where mgr=7698;

EMPNO ENAME DEPTNO

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

7499 ALLEN 30

7521 WARD 30

7654 MARTIN 30

7844 TURNER 30

7900 JAMES 30

5. List the name, job, and salary of the emp who are working in departments 10 and

30.

SQL> select ename, job, sal from emp where deptno in(10,30);

ENAME JOB SAL

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

ALLEN SALESMAN 1600

WARD SALESMAN 1250

MARTIN SALESMAN 1250

BLAKE MANAGER 2850

CLARK MANAGER 2450

KING PRESIDENT 5000

TURNER SALESMAN 1500

JAMES CLERK 950

MILLER CLERK 1300

6. Display name concatenated with dept code separated by comma and space. Name

the column as ‘Emp info’.

SQL> select concat(concat(ename, ', '), deptno) from emp;

SQL> select (ename || ', '|| empno) from emp;

CONCAT(CONCAT(ENAME,','),DEPTNO)

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

SMITH, 20

ALLEN, 30

WARD, 30

JONES, 20

MARTIN, 30

BLAKE, 30

CLARK, 10

SCOTT, 20

KING, 10

TURNER, 30

ADAMS, 20

JAMES, 30

FORD, 20

MILLER, 10

7. Display the emp details who do not have manager.

SQL> select \* from emp where mgr is null;

EMPNO ENAME JOB MGR HIREDATE SAL COMM DEPTNO

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7839 KING PRESIDENT 17-NOV-81 5000 10

8. Write a query which will display name, department no and date of joining of all

employee who were joined January 1, 1981 and March 31, 1983. Sort it based on date of

joining (ascending).

SQL> select \* from emp where hiredate between '1 jan 81' and '31 mar 83' order by hiredate asc;

EMPNO ENAME JOB MGR HIREDATE SAL COMM DEPTNO

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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

7698 BLAKE MANAGER 7839 01-MAY-81 2850 30

7782 CLARK MANAGER 7839 09-JUN-81 2450 10

7844 TURNER SALESMAN 7698 08-SEP-81 1500 0 30

7654 MARTIN SALESMAN 7698 28-SEP-81 1250 1400 30

7839 KING PRESIDENT 17-NOV-81 5000 10

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

7788 SCOTT ANALYST 7566 09-DEC-82 3000 20

7876 ADAMS CLERK 7788 12-JAN-83 1100 20

9. Display the employee details where the job contains word ‘AGE’ anywhere in the Job

SQL> select \* from emp where job like '%AGE%';

EMPNO ENAME JOB MGR HIREDATE SAL COMM DEPTNO

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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

11. List the details of the employee, whose names start with ‘A’ and end with ‘S’ or

whose names contains N as the second or third character, and ending with either ‘N’ or ‘S’.

SQL> select \* from emp where ename like 'A%S' or ename like '\_N%' or ename like '\_\_N%' and (ename like '%N' or ename like '%S');

EMPNO ENAME JOB MGR HIREDATE SAL COMM DEPTNO

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7566 JONES MANAGER 7839 02-APR-81 2975 20

7876 ADAMS CLERK 7788 12-JAN-83 1100 20

12. List the names of the emp having ‘\_’ character in their name.

SQL> select \* from emp where ename like '%$\_%';

no rows selected