|  |  |  |
| --- | --- | --- |
| **EX.NO:** | **4** | **JOIN OPERATIONS** |
| **DATE :** |  |

**QUERIES:**

|  |
| --- |
| **Join Operations:** |
| Q1: Display the employee details, departments that the departments are same in both the emp and dept. |
| **Query:** select ename,empno,job,salary,dname,loc from emp,dept where emp.deptno=dept.deptno; |
| **Output:**  ENAME EMPNO JOB SALARY DNAME LOC  -------------------- ---------- ---------- ---------- ---------- ----------  Mathi 1 AP 10000 ACCOUNTING NEW YORK  Arjun 2 ASP 12000 RESEARCH DALLAS  Gugan 3 ASP 20000 RESEARCH DALLAS  Karthick 4 AP 15000 ACCOUNTING NEW YORK  Blake 5 ASP 18000 SALES CHICAGO |
| Q5: Display the employee details, departments that the departments are not same in both the emp and dept. |
| **Query:** select ename,empno,job,salary,dname,loc from emp,dept where emp.deptno<>dept.deptno; |
| **Output:**  ENAME EMPNO JOB SALARY DNAME LOC  -------------------- ---------- ---------- ---------- ---------- ----------  Arjun 2 ASP 12000 ACCOUNTING NEW YORK  Gugan 3 ASP 20000 ACCOUNTING NEW YORK  Blake 5 ASP 18000 ACCOUNTING NEW YORK  Mathi 1 AP 10000 SALES CHICAGO  Arjun 2 ASP 12000 SALES CHICAGO  Gugan 3 ASP 20000 SALES CHICAGO  Karthick 4 AP 15000 SALES CHICAGO  Mathi 1 AP 10000 OPERATIONS BOSTON  Arjun 2 ASP 12000 OPERATIONS BOSTON  Gugan 3 ASP 20000 OPERATIONS BOSTON  Karthick 4 AP 15000 OPERATIONS BOSTON  Blake 5 ASP 18000 OPERATIONS BOSTON  Mathi 1 AP 10000 RESEARCH DALLAS  Karthick 4 AP 15000 RESEARCH DALLAS  Blake 5 ASP 18000 RESEARCH DALLAS |
| Q6: Left outer join: (both using operator and command) |
| **Query:** select \* from emp left outer join dept on emp.deptno=dept.deptno;  select \* from emp,dept where dept.deptno(+)=emp.deptno; |
| **Output:**  EMPNO ENAME JOB DEPTNO SALARY DEPTNO DNAME LOC  ---------- -------------------- ---------- ---------- ---------- ---------- ---------- ----------  4 Karti AP 1 15000 1 ACCOUNTING NEW YORK  1 Mathi AP 1 10000 1 ACCOUNTING NEW YORK  5 Blake ASP 3 18000 3 SALES CHICAGO  3 Gugan ASP 2 20000 2 RESEARCH DALLAS  2 Arjun ASP 2 12000 2 RESEARCH DALLAS |
| Q7: Right outer join:(both using operator and command) |
| **Query:**  select \* from emp right outer join dept on emp.deptno=dept.deptno;  select \* from emp,dept where emp.deptno(+)=dept.deptno; |
| **Output:**  EMPNO ENAME JOB DEPTNO SALARY DEPTNO DNAME LOC  ---------- -------------------- ---------- ---------- ---------- ---------- ---------- ----------  1 Mathi AP 1 10000 1 ACCOUNTING NEW YORK  2 Arjun ASP 2 12000 2 RESEARCH DALLAS  3 Gugan ASP 2 20000 2 RESEARCH DALLAS  4 Karti AP 1 15000 1 ACCOUNTING NEW YORK  5 Blake ASP 3 18000 3 SALES CHICAGO  4 OPERATIONS BOSTON |
| Q8:Create a table named increment with the following attributes  Name and sal\_increment  Display department wise employee name, with its salary increment. |
| **Query:**  select name,sal\_inc,dname from inc,emp,dept where emp.ename=inc.name and emp.deptno=dept.deptno order by emp.deptno; |
| **Output:**  NAME SAL\_INC DNAME  ---------- ---------- ----------  Karti 6 ACCOUNTING  Mathi 4 ACCOUNTING  Arjun 7 RESEARCH  Gugan 9 RESEARCH  Blake 8 SALES |
| Q9: Natural join: |
| **Query:** select \* from emp,dept where emp.deptno=dept.deptno; |
| **Output:**  EMPNO ENAME JOB DEPTNO SALARY DEPTNO DNAME LOC  ---------- -------------------- ---------- ---------- ---------- ---------- ---------- ----------  1 Mathi AP 1 10000 1 ACCOUNTING NEW YORK  2 Arjun ASP 2 12000 2 RESEARCH DALLAS  3 Gugan ASP 2 20000 2 RESEARCH DALLAS  4 Karti AP 1 15000 1 ACCOUNTING NEW YORK  5 Blake ASP 3 18000 3 SALES CHICAGO |
| Q10: self join: |
| **Query:**  select \* from emp a,emp b where a.deptno=b.deptno; |
| **Output:**  EMPNO ENAME JOB DEPTNO SALARY EMPNO ENAME JOB DEPTNO  SALARY  ---------- -------------------- ---------- ---------- ---------- ---------- -------------------- ---------- ---------- ----------  4 Karti AP 1 15000 1 Mathi AP 1  10000  1 Mathi AP 1 10000 1 Mathi AP 1  10000  3 Gugan ASP 2 20000 2 Arjun ASP 2  12000  2 Arjun ASP 2 12000 2 Arjun ASP 2  12000  3 Gugan ASP 2 20000 3 Gugan ASP 2  20000  2 Arjun ASP 2 12000 3 Gugan ASP 2  20000  4 Karti AP 1 15000 4 Karti AP 1  15000  1 Mathi AP 1 10000 4 Karti AP 1  15000  5 Blake ASP 3 18000 5 Blake ASP 3  18000 |
| Q11: Cross join: |
| **Query:**  select \* from emp,dept; |
| **Output:**  EMPNO ENAME JOB DEPTNO SALARY DEPTNO DNAME LOC  ---------- -------------------- ---------- ---------- ---------- ---------- ---------- ----------  1 Mathi AP 1 10000 1 ACCOUNTING NEW YORK  2 Arjun ASP 2 12000 1 ACCOUNTING NEW YORK  3 Gugan ASP 2 20000 1 ACCOUNTING NEW YORK  4 Karti AP 1 15000 1 ACCOUNTING NEW YORK  5 Blake ASP 3 18000 1 ACCOUNTING NEW YORK  1 Mathi AP 1 10000 3 SALES CHICAGO  2 Arjun ASP 2 12000 3 SALES CHICAGO  3 Gugan ASP 2 20000 3 SALES CHICAGO  4 Karti AP 1 15000 3 SALES CHICAGO  5 Blake ASP 3 18000 3 SALES CHICAGO  1 Mathi AP 1 10000 4 OPERATIONS BOSTON  2 Arjun ASP 2 12000 4 OPERATIONS BOSTON  3 Gugan ASP 2 20000 4 OPERATIONS BOSTON  4 Karti AP 1 15000 4 OPERATIONS BOSTON  5 Blake ASP 3 18000 4 OPERATIONS BOSTON  1 Mathi AP 1 10000 2 RESEARCH DALLAS  2 Arjun ASP 2 12000 2 RESEARCH DALLAS  3 Gugan ASP 2 20000 2 RESEARCH DALLAS  4 Karti AP 1 15000 2 RESEARCH DALLAS  5 Blake ASP 3 18000 2 RESEARCH DALLAS |