**PAPER – II                 PRACTICAL NO. : 03**

**AIM** : **DEMONSTRATE DISTRIBUTED DATABASES ENVIRONMENT BY DIVIDING GIVEN GLOBAL CONCECREATE A TABLE THAT STORES SPATIAL DATA AND ISSUE QUERIES ON IT. PTUAL SCHEMA, INTO VERTICAL AND HORIZONTAL FRAGMENTS AND PLACE THEM ON DIFFERENT NODES. EXECUTE QUERIES ON THESE FRAGMENTS.**

**ROLL NO. : 02                                BATCH : M.SC PART-I**

**DATE :   /  /22**

**A] Create a global conceptual schema Emp (Eno; Ename; Address; Email; Salary) & insert 5 records. Divide Emp into vertical fragments, Emp1 (Eno; Ename; Address) & Emp2(Eno; Email; Salary) on 2 different nodes. Fire the following queries :**

**B] Create a global conceptual schema Emp (Eno; Ename; Address; Email; Salary) & insert 5 records. Divide Emp into horizontal fragments on 2 different nodes. Fire the**

**Following queries :**

**C] Create a global conceptual schema Emp (Eno; Ename; Address; Email; Salary) & insert 10 records. Store the replication of Emp into 2 different nodes & fire the following queries :**

1. **Find the salary of all employees.**
2. **Find the email of all employees where salary is = 20,000.**
3. **Find the employee name and email where employee number is known.**
4. **Find the employee name and address where employee number is known.**

**CODE :**

**1)Table creation:**

create table Emp1(Eno number(7),Ename varchar2(20),Address varchar2(20));

Table created.

**2)Insertion:**

 insert into Emp1 values(101,'Samruddhi','Kudal');

1 row created.

insert into Emp1 values(102,'Akshata','Chiplun');

1 row created.

 insert into Emp1 values(103,'Rashmi','Kankavali');

1 row created.

 insert into Emp1 values(104,'Prajakta','Latur');

1 row created.

insert into Emp1 values(105,'Kavita','Lanja');1 row created.

 insert into Emp1 values(106,'Harshada','Ratnagiri');

1 row created.

insert into Emp1 values(107,'Shweta','Oros');

1 row created.

 insert into Emp1 values(108,'Tejal','Jalgaon');

1 row created.

 insert into Emp1 values(109,'Sheetal','Pune');

1 row created.

 insert into Emp1 values(110,'Manasi','Shirgaon');

1 row created.

SQL> select \*from Emp1;

       ENO ENAME                ADDRESS

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       101 Samruddhi            Kudal

       102 Akshata              Chiplun

       103 Rashmi               Kankavali

       104 Prajakta             Latur

       105 Kavita               Lanja

       106 Harshada             Ratnagiri

       107 Shweta               Oros

       108 Tejal                Jalgaon

       109 Sheetal              Pune

       110 Manasi               Shirgaon

10 rows selected.

**3)Table creation:**

create table Emp2(Eno number(7),Email varchar2(20),salary number(10));

Table created.

**4)Insertion:**

 insert into Emp2 values(101,'Samruddhi@yahoo.com',10000);

1 row created.

 insert into Emp2 values(102,'Akshata@gmail.com',20000);

1 row created.

 insert into Emp2 values(103,'Rashmi@yahoo.com',13000);

1 row created.

 insert into Emp2 values(104,'Prajakta@yahoo.com',15000);

1 row created.

 insert into Emp2 values(105,'kavita@gmail.com',11000);

1 row created.

 insert into Emp2 values(106,'Harshada@yahoo.com',10000);

1 row created.

 insert into Emp2 values(107,'Shweta@yahoo.com',16000);

1 row created.

 insert into Emp2 values(108,'Tejal@yahoo.com',25000);

1 row created.

insert into Emp2 values(109,'Sheetal@yahoo.com',12000);

1 row created.

 insert into Emp2 values(110,'Manasi@rediff.com',10000);

1 row created.

select \* from Emp2;

       ENO EMAIL                    SALARY

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       101 Samruddhi@yahoo.com       10000

       102 Akshata@gmail.com         20000

       103 Rashmi@yahoo.com          13000

       104 Prajakta@yahoo.com        15000

       105 kavita@gmail.com          11000

       106 Harshada@yahoo.com        10000

       107 Shweta@yahoo.com          16000

       108 Tejal@yahoo.com           25000

       109 Sheetal@yahoo.com         12000

       110 Manasi@rediff.com         10000

10 rows selected.

**5)Link creation:**

CREATE PUBLIC DATABASE LINK EMP\_LINK1 CONNECT TO system IDENTIFIED BY manager USING 'ORCL';

Database link created.

 CREATE PUBLIC DATABASE LINK EMP\_LINK2 CONNECT TO system IDENTIFIED BY manager USING 'ORCL';

Database link created.

**QUERiES :**

**1. Find the salary of all employees.**

select distinct Eno from Emp1@emp\_link1

  2 union

  3 select distinct salary from Emp2@emp\_link2;

       ENO                                                           Salary

      101                                                                   10000

      102                                                                  11000

      103                                                                  12000

      104                   13000

      105       14000

      106       15000

      107       16000

      108       20000

      109       25000

      110

18 rows selected.

**2. Find the email of all employees where salary is = 20,000.**

select distinct Emp1.Eno@emp\_link1,Emp2.Email@emp\_link2 from Emp1@emp\_link1,Emp2@emp\_link2 wher

e Emp2.salary@emp\_link2=20000 and Emp1.eno@emp\_link1=Emp2.eno@emp\_link2;

       ENO EMAIL

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       102  Akshata@gmail.com

**3. Find the employee name and email where employee number is known.**

 select distinct Emp1.Ename@emp\_link1,Emp2.Email@emp\_link2 from Emp1@emp\_link1,Emp2@emp\_link2 wh

ere Emp1.Eno@emp\_link1=101 and Emp1.eno@emp\_link1=Emp2.eno@emp\_link2;

ENAME                EMAIL

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Samruddhi            Samruddhi@yahoo.com

**4. Find the employee name and address where employee number is known.**

 select distinct Emp1.Ename@emp\_link1,Emp1.address@emp\_link1 from Emp1@emp\_link1,Emp2@emp\_link2

where Emp2.Eno@emp\_link2=105 and Emp1.eno@emp\_link1=Emp2.eno@emp\_link2;

ENAME                ADDRESS

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Kavita               Lanja