

Practical No 2

Aim:

Place the replication of global conceptual schema on different nodes and execute queries that will demonstrate distributed databases environment.

Software Requirement:

Oracle 11g

Query:

- 1. Update any record in db1 & show in db2
- 2. Delete any record in db1 & show in db2.
- 3. Find the salary of all employees.
- 4. Find the email of all employees where salary = 15000
- 5. Find the employee name and email where employee number is known.
- 6. Find the employee name and address where employee number is known.

Step 1: Create Table in db1.

```
SQL Plus
                                                                                                                                SQL*Plus: Release 11.2.0.1.0 Production on Sun Nov 28 18:36:31 2021
Copyright (c) 1982, 2010, Oracle. All rights reserved.
Enter user-name: system
Enter password:
Connected to:
Personal Oracle Database 11g Release 11.2.0.1.0 - 64bit Production
With the Partitioning, OLAP, Data Mining and Real Application Testing options
SQL> conn system/aayushman@db1
Connected.
SQL> create table emp
  3 enumber number primary key,
  4 ename varchar2(20),
  5 addr varchar2(20),
  6 eemail varchar2(20),
     eesalary float
Table created.
```

Step 2: Create Table in db2.

```
SQL> conn system/aayushman@db2
Connected.
SQL> create table emp
2 (
3 enumber number primary key,
4 ename varchar2(20),
5 addr varchar2(20),
6 eemail varchar2(20),
7 eesalary float
8 );
Table created.
SQL>
```

Step 3: Create Database link.

```
SQL > create database link db1todb3 connect to system identified by aayushman using 'db3';

Database link created.

SQL > create database link db3todb1 connect to system identified by aayushman using 'db1';

Database link created.

SQL > ____
```

Step 4: Create Trigger to Insert Data.

```
SQL Plus

SQL> conn system/aayushman@db1
Connected.
SQL> create or replace Trigger insert_data
2 after insert on emp
3 for each row
4 begin
5 insert into emp@db1todb2
6 values(:new.enumber,:new.ename,:new.addr,:new.eemail,:new.eesalary);
7 end;
8 /
Trigger created.

SQL> _
```

Step 5: Create Trigger to Update Data in Table.

```
SQL Plus

SQL> create or replace Trigger del_data
2 before delete on emp
3 for each row
4 begin
5 delete from emp@db1todb2
6 where enumber=:old.enumber;
7 end;
8 /

Trigger created.

SQL> _
```

```
SQL Plus — X

SQL> create or replace Trigger update_data
2 after update on emp
3 for each row
4 begin
5 update emp@dbltodb2
6 set enumber= :new.enumber,
7 ename= :new.ename,
8 addr= :new.eamail,
10 eesalary= :new.eesalary
11 where enumber= :old.enumber;
12 end;
13 /

Trigger created.
```

Step 6: Insert Values in Created Table.

```
SQL Plus
                                                                                                           SQL> insert into emp values(111,'Aayushman','Bhayandar','aayush@yahoo.com',100000);
SQL> insert into emp values(112,'Sagar','Goregaon','sagar@yahoo.com',10400);
1 row created.
SQL> insert into emp values(113,'Aashi','Borivali','Aashi@yahoo.com',100000);
1 row created.
SQL> insert into emp values(114, 'Ashish', 'Bhayandar', 'ash@yahoo.com',15000);
SQL> insert into emp values(115,'Tejas','Bhayandar','tej@yahoo.com',5000);
1 row created.
SQL> insert into emp values(116,'Shubham','Malad','shub@yahoo.com',100000);
1 row created.
SQL> insert into emp values(117, 'Priyanka', 'Vasai', 'priya@yahoo.com',15000);
SQL> insert into emp values(118,'Swapna','Nalasopara','swap@yahoo.com',300000);
SQL> insert into emp values(119,'Samodaya','Goregaon','sam@yahoo.com',15000);
SQL> insert into emp values(120,'Aman','Jogeshwari','aman@yahoo.com',20000);_
```

Show Create Tables



Query

1. Update any record in db1 & show in db2



Show Updated Table in db2



2. Delete any record in db1 & show in db2.

```
SQL Plus
SQL> conn system/aayushman@db1
Connected.
SQL> delete from emp where enumber=111;
1 row deleted.
SQL> conn system/aayushman@db2
SQL> select * from emp;
   ENUMBER ENAME
                                                       EEMAIL
                                                                               EESALARY
       112 Sagar
                                                       sagar@yahoo.com
                                 Goregaon
       113 Aashi
                                 Borivali
                                                       Aashi@yahoo.com
                                                                                 100000
                                 Bhayandar
                                                       ash@yahoo.com
                                                                                 800000
       114 Ashish
                                                       tej@yahoo.com
       115 Tejas
116 Shubham
                                 Bhayandar
                                                                                   5000
                                                                                 100000
                                 Malad
                                                       shub@yahoo.com
       117 Priyanka
                                                       priya@yahoo.com
                                                                                  15000
                                 Vasai
       118 Swapna
                                                                                 300000
                                 Nalasopara
                                                       swap@yahoo.com
       119 Samodaya
                                 Goregaon
                                                       sam@yahoo.com
                                                                                  15000
8 rows selected.
SQL> _
```

3. Find the salary of all employees.



4. Find the email of all employees where salary = 15000.



5. Find the employee name and email where employee number is known.



6. Find the employee name and address where employee number is known.



Conclusion: Successfully Created Triggers and Perform Different Queries on them.