BÀI THỰC HÀNH SỐ 3. TẠO DATABASE LINK TRÊN RADMIN MẠNG VPN

Trần Văn Thế, 20520770, Làm báo cáo, soạn câu query
Lưu Vĩnh Phát,20521733 ,Làm máy thật
Đỗ Huỳnh Mỹ Tâm,20520746, Làm máy thật
Nguyễn Minh Duy, 21522005,Làm báo cáo, soạn câu query

20520770@gm.uit.edu.vn, 20521733@gm.uit.edu.vn, 20520746@gm.uit.edu.vn, 21522005@gm.uit.edu.vn

TÓM TẮT NỘI DUNG THỰC HÀNH

Sinh viên tìm hiểu việc thiết lập kết nối giữa các cơ sở dữ liệu Oracle qua sự hướng dẫn của giảng viên thực hành. Trong đó, các kiến thức cần lưu ý bao gồm:

- o Database link là gì?
- o Các loại database link
- o Cú pháp tạo, xóa database link.

tiết dẫn: Ngoài có thế tham khảo thêm chi tai đường https://docs.oracle.com/cd/B28359_01/server.111/b28310/ds_concepts002.htm dẫn kết nối dẫn hoăc video hướng thuc hiên tai đường https://www.youtube.com/watch?v=N-NShW9cusQ.

Keywords: Database Link, Oracle, Role, Grant, Connect, ...

1. NỘI DUNG THỰC HÀNH

1.1. 6 QUERY

Tại chi nhánh 1:

Query 1:

```
SQL> SELECT p.PackID, p.Name
2 FROM cn1.PACKSERVICE p WHERE p.PackID NOT IN (SELECT PackID FROM cn1.STATIONSERVICE_STAFF WHERE StationID = 'S
n1') AND EXISTS (SELECT 1 FROM cn2.STATIONSERVICE_STAFF@cn2_dblink_staff1 WHERE StationID = 'Station2');

PACKID
NAME
Pack2
Net Wide 1
Pack4
Net Wide 2
```

Query 2:

Query 3:

Query 4:

```
SQL> SELECT s1.PackId, SUM(p1.PricePerMonth * s1.NumberDom * (1 - 0.1)) AS TotalRevenue
 2 FROM cn1.STATIONSERVICE_ADMIN s1
    JOIN cn1.PACKSERVICE p1 ON s1.PackId = p1.PackID
   JOIN cn1.STATION st1 ON s1.StationID = st1.StationID
    GROUP BY s1.PackId
    UNION
    SELECT s2.PackId,
            SUM(p2.PricePerMonth * s2.NumberDom * (1 - 0.125)) AS TotalRevenue
    FROM cn2.STATIONSERVICE_ADMIN@cn2_dblink_ga s2
    JOIN cn2.PACKSERVICE@cn2_dblink_ga p2 ON s2.PackId = p2.PackID
    JOIN cn2.STATION@cn2_dblink_ga st2 ON s2.StationID = st2.StationID
12 GROUP BY s2.PackId;
                     TOTALREVENUE
PACKID
Pack1
                          5014170
Pack5
                          1055808
Pack3
                          1637820
Pack1
                        1895932.5
Pack2
                        2142892.5
Pack4
                       2432456.25
Pack5
                           925470
```

Query 5:

```
WHERE p1.Rate < 0.5 AND p1.EndDate > T0_DATE('18/11/2023', 'DD/MM/YYYY')
 20
       UNION
       UNION
SELECT st2.StationID
FROM cn2.STATION@cn2_dblink_ga st2
WHERE st2.StationID IN (
SELECT StationID
FROM (
SELECT stationID
FROM (
SELECT stationID
 22
23
24
25
26
27
28
29
30
31
32
33
                    1 C
SELECT s2.StationID
FROM cn2.STATIONSERVICE_ADMIN@cn2_dblink_ga s2
WHERE s2.PackId IN (
SELECT p2.PackID FROM cn2.PACKSERVICE@cn2_dblink_ga p2 WHERE p2.SpeedDown > 200
                     GROUP BY s2.StationID
ORDER BY COUNT(s2.PackId) DESC
 35
              WHERE ROWNUM <= 1
 37
38
       AND st2.StationID NOT IN (
              SELECT StationID
FROM cn2.PROMOTION@cn2_dblink_ga p2
 39
              WHERE p2.Rate < 0.5 AND p2.EndDate > T0_DATE('18/11/2023', 'DD/MM/YYYY')
 40
 41
STATIONID
Station2
```

Tại chi nhánh 2:

Query 6:

```
SQL> SELECT DISTINCT P.PackId, AVG(A.Rate) AS AvgRate, MIN(A.EndDate - A.StartDate) AS MinDuration
  3
         SELECT * FROM cn1.PROMOTION@cn1_dblink_admin2
         UNION ALL
 4
         SELECT * FROM cn2.PROMOTION
    ) A
 6
    JOIN cn2.PACKSERVICE P ON A.PackId = P.PackId
     WHERE P.maxVolumne > 300
    GROUP BY P.PackId:
PACKID
                        AVGRATE MINDURATION
                                         45
Pack5
Pack2
                             . 5
                                         738
```

1.2. KIẾN TRÚC PHÂN QUYỀN

Tại trạm 1:

User General Admin:

```
SQL> create user GeneralAdmin identified by ga;
User created.
SQL> grant create, connect to GeneralAdmin;
grant create, connect to GeneralAdmin
ERROR at line 1:
ORA-01917: user or role 'CREATE' does not exist
SQL> grant create session, connect to GeneralAdmin;
Grant succeeded.
SQL> grant select on cn1.PACKSERVICE to GeneralAdmin;
Grant succeeded.
SQL> grant select on cn1.STATION to GeneralAdmin;
Grant succeeded.
SQL> grant select on cn1.STATIONSERVICE_ADMIN to GeneralAdmin;
Grant succeeded.
SQL> grant select on cn1.STATIONSERVICE_STAFF to GeneralAdmin;
Grant succeeded.
SQL> grant select on cn1.PROMOTION to GeneralAdmin;
Grant succeeded.
```

User Admin1:

```
SQL> create user Admin1 identified by admin1;

User created.

SQL> grant select on cn1.PACKSERVICE to Admin1;

Grant succeeded.

SQL> grant select on cn1.STATION to Admin1;

Grant succeeded.

SQL> grant select on cn1.STATIONSERVICE_ADMIN to Admin1;

Grant succeeded.

SQL> grant select on cn1.STATIONSERVICE_STAFF to Admin1;

Grant succeeded.

SQL> grant select on cn1.PROMOTION to Admin1;

Grant succeeded.
```

User Staff1:

```
SQL> create user Staff1 identified by staff1;
User created.

SQL> grant select on cn1.PACKSERVICE to Staff1;
Grant succeeded.

SQL> grant select on cn1.STATIONSERVICE_STAFF to Staff1;
Grant succeeded.
```

Tại trạm 2:

User cn2:

```
SQL> create user cn2 identified by cn2;
User created.
SQL> grant connect to cn2;
Grant succeeded.
SQL> grant create session to cn2;
Grant succeeded.
SQL> grant select on cn1.PACKSERVICE to cn2;
Grant succeeded.
SQL> grant select on cn1.STATION to cn2;
Grant succeeded.
SQL> grant select on cn1.STATIONSERVICE_ADMIN to cn2;
Grant succeeded.
SQL> grant select on cn1.STATIONSERVICE_STAFF to cn2;
Grant succeeded.
SQL> grant select on cn1.PROMOTION to cn2;
Grant succeeded.
```

User Admin2:

```
SQL> create user Admin2 identified by admin2;
User created.

SQL> grant select on cn2.PACKSERVICE to Admin2;
Grant succeeded.

SQL> grant select on cn2.STATION to Admin2;
Grant succeeded.

SQL> grant select on cn2.STATIONSERVICE_ADMIN to Admin2;
Grant succeeded.

SQL> grant select on cn2.STATIONSERVICE_STAFF to Admin2;
Grant succeeded.

SQL> grant select on cn2.STATIONSERVICE_STAFF to Admin2;
Grant succeeded.

SQL> grant select on cn2.PROMOTION to Admin2;
Grant succeeded.
```

User Staff2:

```
SQL> create user Staff2 identified by staff2;
User created.

SQL> grant select on cn2.PACKSERVICE to Staff2;
Grant succeeded.

SQL> grant select on cn2.STATIONSERVICE_STAFF to Staff2;
Grant succeeded.
```